LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

CHRONOLOGICAL INDEX

Volume 21 of 25

2007

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Longhorn Army Ammunition Plant

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LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 21 of 25

2007

A. Title: Report (continued) – Final Installation-Wide Baseline Ecological Risk Assessment
Volume I: Step 3 Report - Exhibit 1 – Data Report
Author(s): Shaw
Recipient: All Stakeholders
Date: November 15, 2007
Bate Stamp: 00059206 - 00059407

B. Title: Report (continued) – Final Installation-Wide Baseline Ecological Risk Assessment
Volume II: Steps 4 through 8 Report and Appendices L through P
Author(s): Shaw
Recipient: All Stakeholders
Date: November 15, 2007
Bate Stamp: 00059408 - 00060025

00059206

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

	Location Code:	STEP-17SS38					STEP-17SS38					STEP-17SS39				
	Associated Site:	Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
	Sample No:	17SS38(0-0.5)-020308					17SS38(1-2)-020308					17SS39(0-0.5)-020308				
	Sample Date:	08-MAR-02					08-MAR-02					08-MAR-02				
User Test Group	*Sample Depth:*	.0 - 0.5					1.0 - 2					.0 - 0.5				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	20.0	J	J	57.4	13.7	394			50.3	12.0	51.1	U	U	51.1	12.2

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

Location Code:		STEP-17SS39					STEP-17SS40					STEP-17SS40				
Associated Site:		Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
Sample No:		17SS39(1-2)-020308					17SS40(0-0.5)-020308					17SS40(1-2)-020308				
Sample Date:		08-MAR-02					08-MAR-02					08-MAR-02				
User Test Group	*Sample Depth:*	1.0 - 2					.0 - 0.5					1.0 - 2				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	48.0	U	U	48.0	11.5	70.9			55.7	13.3	25.5	J	J	48.3	11.6

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

	Location Code:	STEP-17SS41					STEP-17SS41					STEP-17SS41				
	Associated Site:	Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
	Sample No:	17SS41(0-0.5)-020308					17SS41(00.5)0203FD					17SS41(1-2)-020308				
	Sample Date:	08-MAR-02					08-MAR-02					08-MAR-02				
User Test Group	*Sample Depth:*	.0 - 0.5					.0 - 0.5					1.0 - 2				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	17.0	J	J	53.7	12.9	102	J		54.9	13.1	85.8			48.5	11.6

00059209

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

Location Code:		STEP-17SS42					STEP-17SS42					STEP-17SS43				
Associated Site:		Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
Sample No:		17SS42(0-0.5)-020308					17SS42(1-2)-020308					17SS43(0-0.5)-020308				
Sample Date:		08-MAR-02					08-MAR-02					08-MAR-02				
User Test Group	*Sample Depth:*	.0 - 0.5					1.0 - 2					.0 - 0.5				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	65.8			48.8	11.7	50.4	U	U	50.4	12.1	146			47.0	11.2

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

Location Code:		STEP-17SS43					STEP-17SS44					STEP-17SS44				
Associated Site:		Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
Sample No:		17SS43(1-2)-020308					17SS44(0-0.5)-020308					17SS44(1-2)-020308				
Sample Date:		08-MAR-02					08-MAR-02					08-MAR-02				
User Test Group	*Sample Depth:*	1.0 - 2					.0 - 0.5					1.0 - 2				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	323			47.6	11.4	52.0	U	U	52.0	12.5	50.2	U	U	50.2	12.0

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

Location Code:		STEP-17SS45					STEP-17SS45					STEP-17SS46				
Associated Site:		Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
Sample No:		17SS45(0-0.5)-020308					17SS45(1-2)-020308					17SS46(0-0.5)-020308				
Sample Date:		08-MAR-02					08-MAR-02					08-MAR-02				
User Test Group	*Sample Depth:*	.0 - 0.5					1.0 - 2					.0 - 0.5				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	55.1	U	U	55.1	13.2	56.0	U	U	56.0	13.4	57.6	U	U	57.6	13.8

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

Location Code:		STEP-17SS46					STEP-17SS46					STEP-17SS47				
Associated Site:		Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
Sample No:		17SS46(00.5)0203FD					17SS46(1-2)-020308					17SS47(0-0.5)-020308				
Sample Date:		08-MAR-02					08-MAR-02					08-MAR-02				
User Test Group	*Sample Depth:*	.0 - 0.5					1.0 - 2					.0 - 0.5				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	54.8	U	U	54.8	13.1	52.4	U	U	52.4	12.5	50.8	U	U	50.8	12.2

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

	Location Code:	STEP-17SS47					STEP-18SS01					STEP-18SS01				
	Associated Site:	Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
	Sample No:	17SS47(1-2)-020308					18SS01(0-0.5)-020309					18SS01(1-2)-020309				
	Sample Date:	08-MAR-02					09-MAR-02					09-MAR-02				
User Test Group	*Sample Depth:*	1.0 - 2					.0 - 0.5					1.0 - 2				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	47.3	U	U	47.3	11.3	45.7	U	U	45.7	10.9	48.0	U	U	48.0	11.5

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

Location Code:		STEP-18SS02					STEP-18SS02					STEP-18SS03				
Associated Site:		Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
Sample No:		18SS02(0-0.5)-020309					18SS02(1-2)-020309					18SS03(0-0.5)-020309				
Sample Date:		09-MAR-02					09-MAR-02					09-MAR-02				
User Test Group	*Sample Depth:*	.0 - 0.5					1.0 - 2					.0 - 0.5				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	52.7	U	U	52.7	12.6	48.4	U	U	48.4	11.6	52.5	U	U	52.5	12.6

Exhibit 1
Summary of Validated Soil Analytical Data
Waste Sub-Area - Part B
Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

Location Code:		STEP-18SS03					STEP-18SS04					STEP-18SS04				
Associated Site:		Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
Sample No:		18SS03(1-2)-020309					18SS04(0-0.5)-020309					18SS04(00.5)0203FD				
Sample Date:		09-MAR-02					09-MAR-02					09-MAR-02				
User Test Group	*Sample Depth:*	1.0 - 2					.0 - 0.5					.0 - 0.5				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	49.7	U	U	49.7	11.9	54.5	U	U	54.5	13.1	52.0	U	U	52.0	12.4

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

Report Date: 11/15/04

	Location Code:	STEP-18SS04					STEP-18SS05					STEP-18SS05				
	Associated Site:	Waste Sub-Area					Waste Sub-Area					Waste Sub-Area				
	Sample No:	18SS04(1-2)-020309					18SS05(0-0.5)-020309					18SS05(1-2)-020309				
	Sample Date:	09-MAR-02					09-MAR-02					09-MAR-02				
User Test Group	*Sample Depth:*	1.0 - 2					.0 - 0.5					1.0 - 2				
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC																
Perchlorate	ug/kg	516			49.4	11.8	2430			1340	321	123			48.6	11.6

Exhibit 1

Summary of Validated Soil Analytical Data

Waste Sub-Area - Part B

Longhorn Army Ammunition Plant, Karnack, Texas

	Location Code:	STEP-18SS06					STEP-18SS06					
	Associated Site:	Waste Sub-Area					Waste Sub-Area					
	Sample No:	18SS06(0-0.5)-020309					18SS06(1-2)-020309					
	Sample Date:	09-MAR-02					09-MAR-02					
User Test Group	*Sample Depth:*	.0 - 0.5					1.0 - 2					
Parameter	*Units*	*Result*	*Qual*	*VQ*	*RL*	*MDL*	*Result*	*Qual*	*VQ*	*RL*	*MDL*
PERC												
Perchlorate	ug/kg	16.0	J	J	50.0	12.0	49.0	U	U	49.0	11.7

Location	Reported Sample No	Full Sample No	Date
17SD02	17SD02(000.0)/FD	17SD02(000.0)	4-Mar-95
18SS21	18SS21(000.0)QC	18SS21 (000.0)QC	18-Mar-95
STEP-04SS03	04SS03(0-0.5)-02	04SS03(0-0.5)-020310	10-Mar-02
STEP-04SS03	04SS03(0-0.5)-02_QC	04SS03(00.5)0203FD	10-Mar-02
STEP-04SS08	04SS08(0-0.5)-02	04SS08(0-0.5)-020311	11-Mar-02
STEP-04SS08	04SS08(0-0.5)-02_QC	04SS08(00.5)0203FD	11-Mar-02
STEP-04SS11	04SS11(0-0.5)-02	04SS11(0-0.5)-020311	11-Mar-02
STEP-04SS11	04SS11(0-0.5)-02_QC	04SS11(00.5)0203FD	11-Mar-02
STEP-17SS01	17SS01(0-0.5)-02	17SS01(0-0.5)-020306	6-Mar-02
STEP-17SS01	17SS01(0-0.5)-02_QC	17SS01(00.5)0203FD	6-Mar-02
STEP-17SS06	17SS06(0-0.5)-02	17SS06(0-0.5)-020306	6-Mar-02
STEP-17SS06	17SS06(0-0.5)-02_QC	17SS06(00.5)0203FD	6-Mar-02
STEP-17SS11	17SS11(0-0.5)-02	17SS11(0-0.5)-020306	6-Mar-02
STEP-17SS11	17SS11(0-0.5)-02_QC	17SS11(00.5)0203FD	6-Mar-02
STEP-17SS16	17SS16(0-0.5)-02	17SS16(0-0.5)-020307	7-Mar-02
STEP-17SS16	17SS16(0-0.5)-02_QC	17SS16(00.5)0203FD	7-Mar-02
STEP-17SS21	17SS21(0-0.5)-02	17SS21(0-0.5)-020307	7-Mar-02
STEP-17SS21	17SS21(0-0.5)-02_QC	17SS21(00.5)0203FD	7-Mar-02
STEP-17SS26	17SS26(0-0.5)-02	17SS26(0-0.5)-020307	7-Mar-02
STEP-17SS26	17SS26(0-0.5)-02_QC	17SS26(00.5)0203FD	7-Mar-02
STEP-17SS31	17SS31(0-0.5)-02	17SS31(0-0.5)-020307	7-Mar-02
STEP-17SS31	17SS31(0-0.5)-02_QC	17SS31(00.5)0203FD	7-Mar-02
STEP-17SS36	17SS36(0-0.5)-02	17SS36(0-0.5)-020308	8-Mar-02
STEP-17SS36	17SS36(0-0.5)-02_QC	17SS36(00.5)0203FD	8-Mar-02
STEP-17SS41	17SS41(0-0.5)-02	17SS41(0-0.5)-020308	8-Mar-02
STEP-17SS41	17SS41(0-0.5)-02_QC	17SS41(00.5)0203FD	8-Mar-02
STEP-17SS46	17SS46(0-0.5)-02	17SS46(0-0.5)-020308	8-Mar-02
STEP-17SS46	17SS46(0-0.5)-02_QC	17SS46(00.5)0203FD	8-Mar-02
STEP-18SS04	18SS04(0-0.5)-02	18SS04(0-0.5)-020309	9-Mar-02
STEP-18SS04	18SS04(0-0.5)-02_QC	18SS04(00.5)0203FD	9-Mar-02
STEP-29SS03	29SS03(0-0.5)-02	29SS03(0-0.5)-020309	9-Mar-02
STEP-29SS03	29SS03(0-0.5)-02_QC	29SS03(00.5)0203FD	9-Mar-02
STEP-29SS08	29SS08(0-0.5)-02	29SS08(0-0.5)-020310	10-Mar-02
STEP-29SS08	29SS08(0-0.5)-02_QC	29SS08(00.5)0203FD	10-Mar-02
STEP-29SS13	29SS13(0-0.5)-02	29SS13(0-0.5)-020310	10-Mar-02
STEP-29SS13	29SS13(0-0.5)-02_QC	29SS13(00.5)0203FD	10-Mar-02
STEP-29SS21	29SS21(0-0.5)-02	29SS21(0-0.5)-020917	17-Sep-02
STEP-29SS21	29SS21(0-0.5)-02_QC	29SS21(00.5)0209FD	17-Sep-02
STEP-46SS07	46SS07(0-0.5)-02	46SS07(0-0.5)-020312	12-Mar-02
STEP-46SS07	46SS07(0-0.5)-02_QC	46SS07(00.5)0203FD	12-Mar-02
STEP-46SS12	46SS12(0-0.5)-02	46SS12(0-0.5)-020312	12-Mar-02
STEP-46SS12	46SS12(0-0.5)-02_QC	46SS12(00.5)0203FD	12-Mar-02
STEP-47SS03	47SS03(0-0.5)-02	47SS03(0-0.5)-020310	10-Mar-02
STEP-47SS03	47SS03(0-0.5)-02_QC	47SS03(00.5)0203FD	10-Mar-02
STEP-47SS08	47SS08(0-0.5)-02	47SS08(0-0.5)-020310	10-Mar-02
STEP-47SS08	47SS08(0-0.5)-02_QC	47SS08(00.5)0203FD	10-Mar-02
STEP-50SS03	50SS03(0-0.5)-02	50SS03(0-0.5)-020309	9-Mar-02
STEP-50SS03	50SS03(0-0.5)-02_QC	50SS03(00.5)0203FD	9-Mar-02

48 rows selected.

LH> spool off;

Depth (ft bgs)	
0	0
0	0
0	0.5
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Table Reference
Table 6-4 Samples_ts_WSA.xls
Table 6-4 Samples_ts_WSA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-4 Samples_ts_WSA.xls
Table 6-4 Samples_ts_WSA.xls
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Table 6-4 Samples_ts_WSA.xls
Table 6-4 Samples_ts_WSA.xls
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Table 6-4 Samples_ts_WSA.xls
Table 6-4 Samples_ts_WSA.xls
Table 6-4 Samples_ts_WSA.xls
Table 6-4 Samples_ts_WSA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
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Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls
Table 6-2 Samples_ts_ISA.xls

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW06(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	UJ	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	UJ	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Barium	0.246	mg/L	=		0.01	0.246	SW	Y	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Copper	0.01	mg/L	=		0.005	0.01	SW	Y	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	HMX	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Lead	0.019	mg/L	=		0.01	0.019	SW	Y	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW06(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	RDX	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Selenium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Tetryl	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	Zinc	0.056	mg/L	=		0.003	0.056	SW	Y	#N/A	#N/A	HB	#N/A
16SW06(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	p-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW06(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Arsenic	0.005	mg/L	=		0.005	0.005	SW	Y	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Barium	0.91	mg/L	=		0.01	0.91	SW	Y	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW07(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Chromium	0.014	mg/L	=		0.01	0.014	SW	Y	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Copper	0.017	mg/L	=		0.005	0.017	SW	Y	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Lead	0.02	mg/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Thallium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	Zinc	0.791	mg/L	=		0.003	0.791	SW	Y	#N/A	#N/A	HB	#N/A
16SW07(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
16SW07(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,4,6,7,8-Heptachlorodibenzofuran	38.4	pg/L	=	J	2.9	38.4	SW	Y	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW31	1,2,3,4,6,7,8-HpCDD	228	pg/L	=	J	3.4	228	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.4	pg/L	=	J	3.8	3.4	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	3	pg/L	=	J	3.4	3	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,4,7,8-Hexachlorodibenzofuran	11.8	pg/L	=	J	2.5	11.8	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	7.7	pg/L	=	J	2.8	7.7	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,6,7,8-Hexachlorodibenzofuran	3.7	pg/L	=	J	2	3.7	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	7.3	pg/L	=	J	3	7.3	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,7,8,9-Hexachlorodibenzofuran	2.8	pg/L	<	UJ	2.8	2.8	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,7,8-Pentachlordibenzo-p-dioxin	2.6	pg/L	=	J	3.4	2.6	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3,7,8-Pentachlorodibenzofuran	2.6	pg/L	=	J	2.8	2.6	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,3,5-Trinitrobenzene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,3-Dinitrobenzene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2,3,4,6,7,8-Hexachlorodibenzofuran	10.1	pg/L	=	U	2.5	10.1	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	2,3,4,7,8-Pentachlorodibenzofuran	5.2	pg/L	=	J	2.8	5.2	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	2,3,7,8-TCDD	2.5	pg/L	<	UJ	2.5	2.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2,3,7,8-TCDF	9.8	pg/L	=	J	2.3	9.8	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	2,4,6-Trinitrotoluene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2,4-Dinitrotoluene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2,6-Dinitrotoluene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2-Amino-4,6-dinitrotoluene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
16SW31	4,4'-DDD	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	4,4'-DDE	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	4,4'-DDT	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	4-Amino-2,6-dinitrotoluene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aldrin	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aluminum	83	mg/L	=		0.2	83	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Antimony	0.005	mg/L	=		0.005	0.005	SW	Y	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW31	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Arsenic	0.031	mg/L	=		0.01	0.031	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Barium	1.1	mg/L	=		0.2	1.1	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Beryllium	0.0038	mg/L	=		0.0005	0.0038	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Cadmium	0.0061	mg/L	=		0.0008	0.0061	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Calcium	97	mg/L	=		5	97	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Chlordane	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Chloride	89	mg/L	=		20	89	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Chromium	0.072	mg/L	=		0.01	0.072	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Copper	0.089	mg/L	=		0.025	0.089	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Dieldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Endosulfan I	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Endosulfan II	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Endosulfan Sulfate	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Endrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Endrin aldehyde	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Endrin ketone	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	HMX	0.2	ug/L	<	R	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Heptachlor	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Heptachlor epoxide	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Heptachlorodibenzo-p-dioxin	554	pg/L	=	J	3.4	554	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Heptachlorodibenzofuran	119	pg/L	=	J	3.3	119	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Hexachloridibenzo-p-dioxin	70.6	pg/L	=	J	3	70.6	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Hexachlorodibenzofuran	51.6	pg/L	=	J	2.4	51.6	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW31	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Iron	120	mg/L	=		0.1	120	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Lead	0.075	mg/L	=		0.003	0.075	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	METHOXYCHLOR	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
16SW31	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Magnesium	36	mg/L	=		5	36	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Manganese	3.11	mg/L	=		0.015	3.11	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Mercury	0.0005	mg/L	=		0.0002	0.0005	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Naphthalene	11	ug/L	=		1	11	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Nickel	0.066	mg/L	=		0.04	0.066	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Nitrate / Nitrite	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Nitrobenzene	0.1	ug/L	<	R	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Octabchlorodibenzo-p-dioxin	5720	pg/L	=	J	4.6	5720	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Octabchlorodibenzofuran	71.8	pg/L	=	J	3.4	71.8	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Pentachlorodibenzo-p-dioxin	2.3	pg/L	=	J	3.4	2.3	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Pentachlorodibenzofuran	24.3	pg/L	=	J	2.8	24.3	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Potassium	18	mg/L	=		5	18	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
16SW31	RDX	0.2	ug/L	<	R	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Selenium	0.017	mg/L	=		0.005	0.017	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Sodium	77	mg/L	=		5	77	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Strontium	1.11	mg/L	=		0.05	1.11	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Sulfate	363	mg/L	=		200	363	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Tetrachlorodibenzo-p-dioxin	2.5	pg/L	<	UJ	2.5	2.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Tetrachlorodibenzofuran, Total	65.1	pg/L	=	J	2	65.1	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Tetryl	0.2	ug/L	<	R	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Toxaphene	2.5	ug/L	<	U	2.5	2.5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Vanadium	0.143	mg/L	=		0.05	0.143	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	Zinc	1	mg/L	=		0.02	1	SW	Y	#N/A	#N/A	HB	#N/A
16SW31	alpha-BHC	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW31	beta-BHC	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW31	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
16SW31	delta-BHC	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
16SW31	gamma-BHC (Lindane)	0.02	ug/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW31	m-Nitrotoluene	0.2	ug/L	<	R	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	o-Nitrotoluene	0.2	ug/L	<	R	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	p-Nitrotoluene	0.2	ug/L	<	R	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
16SW31	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
16SW31	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SD01(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SD01(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW01	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW01	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Barium	0.709	mg/L	=		0.02	0.709	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Chloride	109	mg/L	=		40	109	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Chromium	0.0161	mg/L	=		0.01	0.0161	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Conductivity	650	umhos	=		0	650	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW01	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Lead	0.011	mg/L	=		0.002	0.011	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Sulfate	43	mg/L	=		2	43	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	Temperature	20.6	Deg C	=		0	20.6	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW01	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW01	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW01	pH	6.64	PH UNITS	=		0	6.64	SW	Y	#N/A	#N/A	HB	#N/A
17SW01	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW01(WATER)-950302	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Barium	0.224	mg/L	=		0.01	0.224	SW	Y	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Lead	0.007	mg/L	=		0.002	0.007	SW	Y	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW01(WATER)-950302	Zinc	0.036	mg/L	=		0.003	0.036	SW	Y	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950302	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW01(WATER)-950314	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW02	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW02	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Arsenic	0.0146	mg/L	=		0.01	0.0146	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Barium	1.48	mg/L	=		0.02	1.48	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Chloride	308	mg/L	=		40	308	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Chromium	0.0244	mg/L	=		0.01	0.0244	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Conductivity	1700	umhos	=		0	1700	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW02	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Lead	0.0559	mg/L	=		0.002	0.0559	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Sulfate	251	mg/L	=		40	251	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Temperature	19.8	Deg C	=		0	19.8	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Thallium	0.0103	mg/L	=		0.01	0.0103	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW02	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW02	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW02	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW02	pH	7.08	PH UNITS	=		0	7.08	SW	Y	#N/A	#N/A	HB	#N/A
17SW02	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Acetone	12	ug/L	=		10	12	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Barium	0.278	mg/L	=		0.01	0.278	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Copper	0.005	mg/L	=		0.005	0.005	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW02(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Lead	0.011	mg/L	=		0.002	0.011	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	Zinc	0.026	mg/L	=		0.003	0.026	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW02(WATER)QC	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Acetone	12	ug/L	=		10	12	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Barium	0.285	mg/L	=		0.01	0.285	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Lead	0.009	mg/L	=		0.002	0.009	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Mercury	0.002	mg/L	=		0.0002	0.002	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	Zinc	0.032	mg/L	=		0.003	0.032	SW	Y	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW02(WATER)QC	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW02(WATER)QC	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW03	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW03	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Barium	0.603	mg/L	=		0.02	0.603	SW	Y	#N/A	#N/A	HB	#N/A
17SW03	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Chloride	2.4	mg/L	=		2	2.4	SW	Y	#N/A	#N/A	HB	#N/A
17SW03	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Conductivity	140	umhos	=		0	140	SW	Y	#N/A	#N/A	HB	#N/A
17SW03	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Lead	0.0388	mg/L	=		0.002	0.0388	SW	Y	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW03	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Sulfate	2	mg/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Temperature	25.7	Deg C	=		0	25.7	SW	Y	#N/A	#N/A	HB	#N/A
17SW03	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW03	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW03	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
17SW03	pH	6.53	PH UNITS	=		0	6.53	SW	Y	#N/A	#N/A	HB	#N/A
17SW03	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW03(WATER)-950302	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Barium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Lead	0.007	mg/L	=		0.002	0.007	SW	Y	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	Zinc	0.061	mg/L	=		0.003	0.061	SW	Y	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950302	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW03(WATER)-950314	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW03(WATER)-950314	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Acetone	29	ug/L	=		10	29	SW	Y	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Barium	0.124	mg/L	=		0.01	0.124	SW	Y	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW04(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Lead	0.005	mg/L	=		0.002	0.005	SW	Y	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	Zinc	0.025	mg/L	=		0.003	0.025	SW	Y	#N/A	#N/A	HB	#N/A
17SW04(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW04(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW05(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Barium	0.17	mg/L	=		0.01	0.17	SW	Y	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Copper	0.012	mg/L	=		0.005	0.012	SW	Y	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Lead	0.005	mg/L	=		0.002	0.005	SW	Y	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	Zinc	0.067	mg/L	=		0.003	0.067	SW	Y	#N/A	#N/A	HB	#N/A
17SW05(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW05(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW06(WATER)-950302	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Arsenic	0.013	mg/L	=		0.005	0.013	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Barium	1.23	mg/L	=		0.01	1.23	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Chromium	0.05	mg/L	=		0.01	0.05	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Copper	0.027	mg/L	=		0.005	0.027	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Lead	0.08	mg/L	=		0.002	0.08	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Mercury	0.0002	mg/L	=		0.0002	0.0002	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Nickel	0.041	mg/L	=		0.04	0.041	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Selenium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Thallium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	Zinc	0.19	mg/L	=		0.003	0.19	SW	Y	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950302	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW06(WATER)-950314	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW06(WATER)-950314	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Acetone	15	ug/L	=		10	15	SW	Y	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Barium	0.274	mg/L	=		0.01	0.274	SW	Y	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW07(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Copper	0.009	mg/L	=		0.005	0.009	SW	Y	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Lead	0.024	mg/L	=		0.002	0.024	SW	Y	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	Zinc	0.058	mg/L	=		0.003	0.058	SW	Y	#N/A	#N/A	HB	#N/A
17SW07(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW07(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW08(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Acetone	17	ug/L	=		10	17	SW	Y	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Barium	0.293	mg/L	=		0.01	0.293	SW	Y	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Lead	0.007	mg/L	=		0.002	0.007	SW	Y	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	Zinc	0.027	mg/L	=		0.003	0.027	SW	Y	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW08(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW08(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Acetone	22	ug/L	=		10	22	SW	Y	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Antimony	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Barium	0.217	mg/L	=		0.01	0.217	SW	Y	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW09(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Lead	0.1	mg/L	=		0.1	0.1	SW	Y	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Nickel	0.097	mg/L	=		0.04	0.097	SW	Y	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Selenium	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Thallium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	Zinc	0.192	mg/L	=		0.003	0.192	SW	Y	#N/A	#N/A	HB	#N/A
17SW09(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	#N/A	HB	#N/A
17SW09(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1	pg/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,4,6,7,8-HpCDD	1.83	pg/L	<	U	1.83	1.83	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.26	pg/L	<	U	1.26	1.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	1.96	pg/L	<	U	1.96	1.96	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,4,7,8-Hexachlorodibenzofuran	1.17	pg/L	<	U	1.17	1.17	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	1.81	pg/L	<	U	1.81	1.81	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,6,7,8-Hexachlorodibenzofuran	1.13	pg/L	<	U	1.13	1.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	1.73	pg/L	<	U	1.73	1.73	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,7,8,9-Hexachlorodibenzofuran	1.42	pg/L	<	U	1.42	1.42	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,7,8-Pentachlordibenzo-p-dioxin	1.74	pg/L	<	U	1.74	1.74	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3,7,8-Pentachlorodibenzofuran	1.66	pg/L	<	U	1.66	1.66	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,3,4,6,7,8-Hexachlorodibenzofuran	1.27	pg/L	<	U	1.27	1.27	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,3,4,7,8-Pentachlorodibenzofuran	1.69	pg/L	<	U	1.69	1.69	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,3,7,8-TCDD	2.5	pg/L	<	U	2.5	2.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,3,7,8-TCDF	2.27	pg/L	<	UJ	2.27	2.27	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aluminum	0.59	mg/L	=		0.2	0.59	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Calcium	10	mg/L	=		5	10	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Chlordane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Chloride	4.31	mg/L	=		0.2	4.31	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Heptachlorodibenzo-p-dioxin	1.83	pg/L	<	U	1.83	1.83	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Heptachlorodibenzofuran	1	pg/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Hexachloridibenzo-p-dioxin	1.81	pg/L	<	U	1.81	1.81	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Hexachlorodibenzofuran	1.13	pg/L	<	U	1.13	1.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Iron	0.56	mg/L	=		0.1	0.56	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	#N/A	HB	#N/A
17SW10	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Manganese	0.114	mg/L	=		0.015	0.114	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Octabchlorodibenzo-p-dioxin	22.8	pg/L	=	U	2.69	22.8	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Octabchlorodibenzofuran	12.2	pg/L	=	J	3.49	12.2	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Pentachlorodibenzo-p-dioxin	1.74	pg/L	<	U	1.74	1.74	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Pentachlorodibenzofuran	1.69	pg/L	<	U	1.69	1.69	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Potassium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Sulfate	6	mg/L	=		2	6	SW	Y	#N/A	#N/A	HB	#N/A
17SW10	Tetrachlorodibenzo-p-dioxin	2.5	pg/L	<	U	2.5	2.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Tetrachlorodibenzofuran, Total	2.27	pg/L	<	U	2.27	2.27	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Toxaphene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	Zinc	0.02	mg/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
17SW10	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.01	pg/L	<	U	1.01	1.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,4,6,7,8-HpCDD	2.2	pg/L	<	U	2.2	2.2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.26	pg/L	<	U	1.26	1.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	25.558	pg/L	<	UJ	25.558	25.558	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,4,7,8-Hexachlorodibenzofuran	1.21	pg/L	<	U	1.21	1.21	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	1.67	pg/L	<	U	1.67	1.67	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,6,7,8-Hexachlorodibenzofuran	1.17	pg/L	<	U	1.17	1.17	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	1.6	pg/L	<	U	1.6	1.6	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,7,8,9-Hexachlorodibenzofuran	1.47	pg/L	<	U	1.47	1.47	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,7,8-Pentachlordibenzo-p-dioxin	12.807	pg/L	<	UJ	12.807	12.807	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3,7,8-Pentachlorodibenzofuran	2.09	pg/L	<	UJ	2.09	2.09	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10QC	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,3,4,6,7,8-Hexachlorodibenzofuran	1.32	pg/L	<	U	1.32	1.32	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,3,4,7,8-Pentachlorodibenzofuran	2.12	pg/L	<	UJ	2.12	2.12	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,3,7,8-TCDD	3.26	pg/L	<	UJ	3.26	3.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,3,7,8-TCDF	3	pg/L	<	UJ	3	3	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aluminum	0.7	mg/L	=		0.2	0.7	SW	Y	#N/A	#N/A	HB	#N/A
17SW10QC	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10QC	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Calcium	10	mg/L	=		5	10	SW	Y	#N/A	#N/A	HB	#N/A
17SW10QC	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Chlordane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Chloride	4.2	mg/L	=		0.2	4.2	SW	Y	#N/A	#N/A	HB	#N/A
17SW10QC	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10QC	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Heptachlorodibenzo-p-dioxin	2.2	pg/L	<	U	2.2	2.2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Heptachlorodibenzofuran	1.01	pg/L	<	U	1.01	1.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Hexachloridibenzo-p-dioxin	1.67	pg/L	<	U	1.67	1.67	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Hexachlorodibenzofuran	1.17	pg/L	<	U	1.17	1.17	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Iron	0.57	mg/L	=		0.1	0.57	SW	Y	#N/A	#N/A	HB	#N/A
17SW10QC	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Manganese	0.112	mg/L	=		0.015	0.112	SW	Y	#N/A	#N/A	HB	#N/A
17SW10QC	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Octabchlorodibenzo-p-dioxin	26	pg/L	=	U	1.88	26	SW	Y	#N/A	#N/A	HB	#N/A
17SW10QC	Octabchlorodibenzofuran	2.35	pg/L	<	UJ	2.35	2.35	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Pentachlorodibenzo-p-dioxin	2.38	pg/L	<	U	2.38	2.38	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Pentachlorodibenzofuran	2.12	pg/L	<	U	2.12	2.12	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Potassium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW10QC	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Sulfate	5.9	mg/L	=		2	5.9	SW	Y	#N/A	#N/A	HB	#N/A
17SW10QC	Tetrachlorodibenzo-p-dioxin	3.26	pg/L	<	U	3.26	3.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Tetrachlorodibenzofuran, Total	3	pg/L	<	U	3	3	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Toxaphene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	Zinc	0.02	mg/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW10QC	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW11	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW11	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW11	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Aluminum	0.48	mg/L	=		0.2	0.48	SW	Y	#N/A	#N/A	HB	#N/A
17SW11	Antimony	0.009	mg/L	=		0.005	0.009	SW	Y	#N/A	#N/A	HB	#N/A
17SW11	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Calcium	7.3	mg/L	=		5	7.3	SW	Y	#N/A	#N/A	HB	#N/A
17SW11	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Chloride	5.02	mg/L	=		0.2	5.02	SW	Y	#N/A	#N/A	HB	#N/A
17SW11	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW11	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Iron	0.68	mg/L	=		0.1	0.68	SW	Y	#N/A	#N/A	HB	#N/A
17SW11	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	#N/A	HB	#N/A
17SW11	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Manganese	0.111	mg/L	=		0.015	0.111	SW	Y	#N/A	#N/A	HB	#N/A
17SW11	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Potassium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW11	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Sulfate	5.8	mg/L	=		2	5.8	SW	Y	#N/A	#N/A	HB	#N/A
17SW11	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	Zinc	0.02	mg/L	<	U	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW11	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW11	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW11	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW11	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,4,6,7,8-Heptachlorodibenzofuran	5.87	pg/L	<	UJ	5.87	5.87	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,4,6,7,8-HpCDD	26.1	pg/L	=	J	1.98	26.1	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.05	pg/L	<	U	2.05	2.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	2.77	pg/L	<	U	2.77	2.77	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,4,7,8-Hexachlorodibenzofuran	3.11	pg/L	<	UJ	3.11	3.11	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	2.57	pg/L	<	U	2.57	2.57	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,6,7,8-Hexachlorodibenzofuran	1.35	pg/L	<	UJ	1.35	1.35	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	2.46	pg/L	<	U	2.46	2.46	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,7,8,9-Hexachlorodibenzofuran	1.7	pg/L	<	UJ	1.7	1.7	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,7,8-Pentachlordibenzo-p-dioxin	2.61	pg/L	<	U	2.61	2.61	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3,7,8-Pentachlorodibenzofuran	2.31	pg/L	<	UJ	2.31	2.31	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW12	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,3,4,6,7,8-Hexachlorodibenzofuran	1.52	pg/L	<	UJ	1.52	1.52	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,3,4,7,8-Pentachlorodibenzofuran	2.35	pg/L	<	UJ	2.35	2.35	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,3,7,8-TCDD	2.89	pg/L	<	UJ	2.89	2.89	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,3,7,8-TCDF	1.96	pg/L	<	UJ	1.96	1.96	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW12	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aluminum	0.82	mg/L	=		0.2	0.82	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Antimony	0.012	mg/L	=		0.005	0.012	SW	Y	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW12	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Calcium	6.3	mg/L	=		5	6.3	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Chlordane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Chloride	3.06	mg/L	=		0.2	3.06	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW12	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Heptachlorodibenzo-p-dioxin	38.5	pg/L	=		1.98	38.5	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Heptachlorodibenzofuran	1.64	pg/L	<	U	1.64	1.64	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Hexachloridibenzo-p-dioxin	2.57	pg/L	<	U	2.57	2.57	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Hexachlorodibenzofuran	2.97	pg/L	=		1.35	2.97	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Iron	3.6	mg/L	=		0.1	3.6	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	#N/A	HB	#N/A
17SW12	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Manganese	2.18	mg/L	=		0.015	2.18	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Octabchlorodibenzo-p-dioxin	116	pg/L	=	B	2.55	116	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Octabchlorodibenzofuran	16.4	pg/L	=		4.26	16.4	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Pentachlorodibenzo-p-dioxin	2.61	pg/L	<	U	2.61	2.61	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Pentachlorodibenzofuran	2.35	pg/L	<	U	2.35	2.35	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Potassium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
17SW12	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Strontium	0.05	mg/L	=		0.05	0.05	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Sulfate	6	mg/L	=		2	6	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	Tetrachlorodibenzo-p-dioxin	2.89	pg/L	<	U	2.89	2.89	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Tetrachlorodibenzofuran, Total	1.96	pg/L	<	U	1.96	1.96	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Toxaphene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	Zinc	0.05	mg/L	=		0.02	0.05	SW	Y	#N/A	#N/A	HB	#N/A
17SW12	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
17SW12	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
17SW12	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
17SW12	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
17SW12	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
17SW12	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
17SW12	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW04	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW04	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW04	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Barium	0.28	mg/L	=		0.02	0.28	SW	Y	#N/A	#N/A	HB	#N/A
18SW04	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Chloride	2	mg/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Chromium	0.0113	mg/L	=		0.01	0.0113	SW	Y	#N/A	#N/A	HB	#N/A
18SW04	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Conductivity	63	umhos	=		0	63	SW	Y	#N/A	#N/A	HB	#N/A
18SW04	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Lead	0.00744	mg/L	=		0.002	0.00744	SW	Y	#N/A	#N/A	HB	#N/A
18SW04	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW04	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Sulfate	4.59	mg/L	=		2	4.59	SW	Y	#N/A	#N/A	HB	#N/A
18SW04	Temperature	22.5	Deg C	=		0	22.5	SW	Y	#N/A	#N/A	HB	#N/A
18SW04	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04	pH	5.95	PH UNITS	=		0	5.95	SW	Y	#N/A	#N/A	HB	#N/A
18SW04	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW04-QC	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,3-Dinitrobenzene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4,6-Trinitrotoluene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Barium	0.247	mg/L	=		0.02	0.247	SW	Y	#N/A	#N/A	HB	#N/A
18SW04-QC	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW04-QC	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Chloride	2	mg/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Chromium	0.0109	mg/L	=		0.01	0.0109	SW	Y	#N/A	#N/A	HB	#N/A
18SW04-QC	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Lead	0.0071	mg/L	=		0.002	0.0071	SW	Y	#N/A	#N/A	HB	#N/A
18SW04-QC	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW04-QC	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Sulfate	4.49	mg/L	=		2	4.49	SW	Y	#N/A	#N/A	HB	#N/A
18SW04-QC	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW04-QC	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,3-Dinitrobenzene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,4,6-Trinitrotoluene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW05	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW05	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Arsenic	0.0361	mg/L	=	J	0.01	0.0361	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Barium	3.84	mg/L	=		0.02	3.84	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Chloride	8.3	mg/L	=		2	8.3	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW05	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Chromium	0.159	mg/L	=	J	0.01	0.159	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Conductivity	140	umhos	=		0	140	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Lead	0.108	mg/L	=		0.002	0.108	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Nickel	0.119	mg/L	=		0.05	0.119	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Sulfate	12.8	mg/L	=		2	12.8	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Temperature	27	Deg C	=		0	27	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW05	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW05	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW05	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW05	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW05	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW05	pH	5.99	PH UNITS	=		0	5.99	SW	Y	#N/A	#N/A	HB	#N/A
18SW05	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW05	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW06	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW06	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Barium	0.817	mg/L	=		0.02	0.817	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Chloride	2.04	mg/L	=		2	2.04	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Chromium	0.0491	mg/L	=		0.01	0.0491	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Conductivity	78	umhos	=		0	78	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW06	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Lead	0.0678	mg/L	=		0.002	0.0678	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Sulfate	6.94	mg/L	=		2	6.94	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	Temperature	20	Deg C	=		0	20	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW06	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW06	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW06	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW06	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW06	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW06	pH	6.04	PH UNITS	=		0	6.04	SW	Y	#N/A	#N/A	HB	#N/A
18SW06	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW06	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,3-Dinitrobenzene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4,6-Trinitrotoluene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW07	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Arsenic	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Barium	0.204	mg/L	=		0.02	0.204	SW	Y	#N/A	#N/A	HB	#N/A
18SW07	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Chloride	7	mg/L	=		2	7	SW	Y	#N/A	#N/A	HB	#N/A
18SW07	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Chromium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Conductivity	100	umhos	=		0	100	SW	Y	#N/A	#N/A	HB	#N/A
18SW07	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW07	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Lead	0.00321	mg/L	=		0.002	0.00321	SW	Y	#N/A	#N/A	HB	#N/A
18SW07	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Sulfate	17.1	mg/L	=		2	17.1	SW	Y	#N/A	#N/A	HB	#N/A
18SW07	Temperature	26.6	Deg C	=		0	26.6	SW	Y	#N/A	#N/A	HB	#N/A
18SW07	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW07	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW07	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW07	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW07	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	HB	#N/A
18SW07	pH	5.27	PH UNITS	=		0	5.27	SW	Y	#N/A	#N/A	HB	#N/A
18SW07	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW07	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Barium	0.153	mg/L	=		0.01	0.153	SW	Y	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Copper	0.01	mg/L	=		0.005	0.01	SW	Y	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Lead	0.005	mg/L	=		0.002	0.005	SW	Y	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Selenium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW10(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	Zinc	0.024	mg/L	=		0.003	0.024	SW	Y	#N/A	#N/A	HB	#N/A
18SW10(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW10(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Barium	0.235	mg/L	=		0.01	0.235	SW	Y	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Copper	0.011	mg/L	=		0.005	0.011	SW	Y	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Lead	0.01	mg/L	=		0.002	0.01	SW	Y	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW11(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Selenium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	Zinc	0.045	mg/L	=		0.003	0.045	SW	Y	#N/A	#N/A	HB	#N/A
18SW11(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW11(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.29	pg/L	<	U	2.29	2.29	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,4,6,7,8-HpCDD	11	pg/L	=		2.99	11	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.06	pg/L	<	U	3.06	3.06	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	3.73	pg/L	<	U	3.73	3.73	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,4,7,8-Hexachlorodibenzofuran	2.48	pg/L	<	U	2.48	2.48	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	2.09	pg/L	<	U	2.09	2.09	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,6,7,8-Hexachlorodibenzofuran	1.66	pg/L	<	U	1.66	1.66	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	2.48	pg/L	<	U	2.48	2.48	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,7,8,9-Hexachlorodibenzofuran	2.7	pg/L	<	U	2.7	2.7	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,7,8-Pentachlordibenzo-p-dioxin	3.21	pg/L	<	U	3.21	3.21	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3,7,8-Pentachlorodibenzofuran	2.61	pg/L	<	U	2.61	2.61	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW29	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,3,4,6,7,8-Hexachlorodibenzofuran	2.42	pg/L	<	U	2.42	2.42	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,3,4,7,8-Pentachlorodibenzofuran	2.73	pg/L	<	U	2.73	2.73	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,3,7,8-TCDD	4.58	pg/L	<	U	4.58	4.58	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,3,7,8-TCDF	3.35	pg/L	<	U	3.35	3.35	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW29	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW29	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
18SW29	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW29	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aluminum	3.7	mg/L	=		0.2	3.7	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aroclor 1016	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aroclor 1221	1	ug/L	<	UJ	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aroclor 1232	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aroclor 1242	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aroclor 1248	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aroclor 1254	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Aroclor 1260	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Calcium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Chlordane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Chloride	4.78	mg/L	=		0.2	4.78	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW29	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Heptachlorodibenzo-p-dioxin	24.3	pg/L	=		2.99	24.3	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Heptachlorodibenzofuran	2.29	pg/L	<	U	2.29	2.29	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Hexachloridibenzo-p-dioxin	2.09	pg/L	<	U	2.09	2.09	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Hexachlorodibenzofuran	1.66	pg/L	<	U	1.66	1.66	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Iron	4.7	mg/L	=		0.1	4.7	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Lead	0.008	mg/L	=		0.003	0.008	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Manganese	0.094	mg/L	=		0.015	0.094	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Octabchlorodibenzo-p-dioxin	401	pg/L	=		3.62	401	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Octabchlorodibenzofuran	3.15	pg/L	<	U	3.15	3.15	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Pentachlorodibenzo-p-dioxin	3.21	pg/L	<	U	3.21	3.21	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Pentachlorodibenzofuran	2.73	pg/L	<	U	2.73	2.73	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW29	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Potassium	6	mg/L	=		5	6	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Sulfate	4	mg/L	=		2	4	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	Tetrachlorodibenzo-p-dioxin	4.58	pg/L	<	U	4.58	4.58	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Tetrachlorodibenzofuran, Total	3.35	pg/L	<	U	3.35	3.35	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Toxaphene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	Zinc	0.03	mg/L	=		0.02	0.03	SW	Y	#N/A	#N/A	HB	#N/A
18SW29	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	HB	#N/A
18SW29	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	HB	#N/A
18SW29	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	HB	#N/A
18SW29	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	HB	#N/A
18SW29	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW29	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW29	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	#N/A	HB	#N/A
18SW03	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,2,4-Trichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,2-Dichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,2-Diphenylhydrazine	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,3-Dichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1,4-Dichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	1-Chloronaphthalene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4,5-Trichlorophenol	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4,6-Trichlorophenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4-Dcihlorophenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4-Dimethylphenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4-Dinitrophenol	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,6-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Chloronaphthalene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Chlorophenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Methylnaphthalene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Methylphenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Nitroaniline	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Nitrophenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	3,3'-Dichlorobenzidine	20	ug/L	<	UJ	20	20	SW	N	#N/A	#N/A	#N/A	SB
18SW03	3-Nitroaniline	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4,6-Dinitro-2-methylphenol	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4-Bromophenyl phenyl ether	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4-Chloro-3-methylphenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4-Chloroaniline	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4-Chlorophenyl phenyl ether	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4-Methylphenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	4-Nitroaniline	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW03	4-Nitrophenol	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Acenaphthene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Acenaphthylene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Acetone	22	ug/L	=		10	22	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Anthracene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Arsenic	0.05	mg/L	=		0.01	0.05	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Barium	1.22	mg/L	=		0.02	1.22	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Benzo(a)anthracene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Benzo(a)pyrene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Benzo(b)fluoranthene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Benzo(ghi)perylene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Benzo(k)fluoranthene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Benzoic Acid	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Benzyl Alcohol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Butyl benzyl phthalate	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Chloride	7	mg/L	=		2	7	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Chromium	0.0753	mg/L	=		0.01	0.0753	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Chrysene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Conductivity	150	umhos	=		0	150	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Dibenzo(a,h)anthracene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Dibenzofuran	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Diethyl phthalate	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Dimethyl phthalate	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Diphenylamine	20	ug/L	<	UJ	20	20	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Fluoranthene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Fluorene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Hexachlorobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Hexachlorobutadiene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Hexachlorocyclopentadiene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Hexachloroethane	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Indeno(1,2,3-cd)pyrene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW03	Isophorone	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Lead	0.0584	mg/L	=		0.002	0.0584	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Naphthalene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Nickel	0.0696	mg/L	=		0.05	0.0696	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Pentachlorophenol	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Phenanthrene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Phenol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Pyrene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Sulfate	12.8	mg/L	=		2	12.8	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Temperature	27.5	Deg C	=		0	27.5	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	bis(2-Chloroethoxy)methane	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	bis(2-Chloroethyl)ether	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	bis(2-Chloroisopropyl)ether	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	bis(2-Ethylhexyl)phthalate	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	di-n-Butyl phthalate	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	di-n-Octyl phthalate	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	m-Cresol	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW03	n-Nitroso-di-n-propylamine	50	ug/L	<	UJ	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW03	n-Nitrosodiphenylamine	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW03	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW03	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW03	pH	5.87	PH UNITS	=		0	5.87	SW	Y	#N/A	#N/A	#N/A	SB
18SW03	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW03	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW08	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,2-Dimethylbenzene (o-Xylene)	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,3-Dinitrobenzene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4,6-Trinitrotoluene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
18SW08	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW08	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Barium	0.148	mg/L	=		0.02	0.148	SW	Y	#N/A	#N/A	#N/A	SB
18SW08	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Chloride	6.6	mg/L	=		2	6.6	SW	Y	#N/A	#N/A	#N/A	SB
18SW08	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Chromium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Conductivity	56	umhos	=		0	56	SW	Y	#N/A	#N/A	#N/A	SB
18SW08	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Lead	0.0176	mg/L	=		0.002	0.0176	SW	Y	#N/A	#N/A	#N/A	SB
18SW08	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW08	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Sulfate	5.7	mg/L	=		2	5.7	SW	Y	#N/A	#N/A	#N/A	SB
18SW08	Temperature	28	Deg C	=		0	28	SW	Y	#N/A	#N/A	#N/A	SB
18SW08	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW08	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW08	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	#N/A	#N/A	SB
18SW08	pH	6.12	PH UNITS	=		0	6.12	SW	Y	#N/A	#N/A	#N/A	SB
18SW08	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW08-QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Barium	0.153	mg/L	=		0.02	0.153	SW	Y	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW08-QC	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Chloride	5.6	mg/L	=		2	5.6	SW	Y	#N/A	#N/A	#N/A	SB
18SW08-QC	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Chromium	0.0104	mg/L	=		0.01	0.0104	SW	Y	#N/A	#N/A	#N/A	SB
18SW08-QC	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Lead	0.00765	mg/L	=		0.002	0.00765	SW	Y	#N/A	#N/A	#N/A	SB
18SW08-QC	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Sulfate	8.8	mg/L	=		2	8.8	SW	Y	#N/A	#N/A	#N/A	SB
18SW08-QC	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW08-QC	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW08-QC	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Barium	0.17	mg/L	=		0.01	0.17	SW	Y	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
18SW09(WATER)	Lead	0.003	mg/L	=		0.002	0.003	SW	Y	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Selenium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	Zinc	0.012	mg/L	=		0.003	0.012	SW	Y	#N/A	#N/A	#N/A	SB
18SW09(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
18SW09(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,3,5-Trinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,3-Dinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4,6-Trinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,4-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2,6-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LHXX-SW16	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Barium	0.07	mg/L	=		0.01	0.07	SW	Y	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Chloride	2.6	mg/L	=		1	2.6	SW	Y	#N/A	#N/A	#N/A	SB
LHXX-SW16	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	HMX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LHXX-SW16	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Lead	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	NIOBIUM	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Nitrate	0.3	mg/L	=		0.01	0.3	SW	Y	#N/A	#N/A	#N/A	SB
LHXX-SW16	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	RDX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Sulfate	2	mg/L	=		1	2	SW	Y	#N/A	#N/A	#N/A	SB
LHXX-SW16	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Tetryl	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	m-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	o-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	p-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	#N/A	#N/A	SB
LHXX-SW16	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	#N/A	#N/A	SB
29SW11	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW11	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW11	Barium	0.109	mg/L	=		0.02	0.109	SW	Y	#N/A	GPC	#N/A	#N/A
29SW11	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Chloride	2	mg/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Conductivity	110	umhos	=		0	110	SW	Y	#N/A	GPC	#N/A	#N/A
29SW11	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Lead	0.00261	mg/L	=		0.002	0.00261	SW	Y	#N/A	GPC	#N/A	#N/A
29SW11	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW11	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Sulfate	6.2	mg/L	=		2	6.2	SW	Y	#N/A	GPC	#N/A	#N/A
29SW11	Temperature	20.8	Deg C	=		0	20.8	SW	Y	#N/A	GPC	#N/A	#N/A
29SW11	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Tetryl	0.8	ug/L	<	UR	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	pH	6.58	PH UNITS	=		0	6.58	SW	Y	#N/A	GPC	#N/A	#N/A
29SW11	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW11	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.43	pg/L	<	U	1.43	1.43	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,4,6,7,8-HpCDD	4.09	pg/L	<	U	4.09	4.09	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.91	pg/L	<	U	1.91	1.91	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	5.05	pg/L	<	U	5.05	5.05	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,4,7,8-Hexachlorodibenzofuran	2.87	pg/L	<	U	2.87	2.87	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	2.82	pg/L	<	U	2.82	2.82	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,6,7,8-Hexachlorodibenzofuran	1.91	pg/L	<	U	1.91	1.91	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	3.35	pg/L	<	U	3.35	3.35	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,7,8,9-Hexachlorodibenzofuran	3.12	pg/L	<	U	3.12	3.12	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,7,8-Pentachlordibenzo-p-dioxin	3.71	pg/L	<	U	3.71	3.71	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	1,2,3,7,8-Pentachlorodibenzofuran	2.41	pg/L	<	U	2.41	2.41	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	2,3,4,6,7,8-Hexachlorodibenzofuran	2.8	pg/L	<	U	2.8	2.8	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	2,3,4,7,8-Pentachlorodibenzofuran	2.52	pg/L	<	U	2.52	2.52	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW24	2,3,7,8-TCDD	5.04	pg/L	<	U	5.04	5.04	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	2,3,7,8-TCDF	4.62	pg/L	<	UJ	4.62	4.62	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Chloride	1.07	mg/L	=		0.2	1.07	SW	Y	#N/A	GPC	#N/A	#N/A
29SW24	Heptachlorodibenzo-p-dioxin	4.09	pg/L	<	U	4.09	4.09	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Heptachlorodibenzofuran	1.43	pg/L	<	U	1.43	1.43	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Hexachloridibenzo-p-dioxin	2.82	pg/L	<	U	2.82	2.82	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Hexachlorodibenzofuran	1.91	pg/L	<	U	1.91	1.91	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Octabchlorodibenzo-p-dioxin	17.4	pg/L	=		4.23	17.4	SW	Y	#N/A	GPC	#N/A	#N/A
29SW24	Octabchlorodibenzofuran	2.78	pg/L	<	U	2.78	2.78	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Pentachlorodibenzo-p-dioxin	3.71	pg/L	<	U	3.71	3.71	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Pentachlorodibenzofuran	2.52	pg/L	<	U	2.52	2.52	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Sulfate	4.3	mg/L	=		2	4.3	SW	Y	#N/A	GPC	#N/A	#N/A
29SW24	Tetrachlorodibenzo-p-dioxin	5.04	pg/L	<	U	5.04	5.04	SW	N	#N/A	GPC	#N/A	#N/A
29SW24	Tetrachlorodibenzofuran, Total	4.62	pg/L	<	U	4.62	4.62	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,3,5-Trinitrobenzene	0.39	ug/L	<	UJ	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,3-Dinitrobenzene	0.13	ug/L	<	UJ	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2,4,6-Trinitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2,4-Dinitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2,6-Dinitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	UJ	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2-Butanone	5.7	ug/L	=		5	5.7	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	UJ	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW26	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Aluminum	0.48	mg/L	=		0.2	0.48	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Antimony	0.008	mg/L	=		0.005	0.008	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Calcium	9.2	mg/L	=		5	9.2	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Chloride	1.51	mg/L	=		0.2	1.51	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Copper	0.041	mg/L	=		0.025	0.041	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	HMX	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Iron	0.88	mg/L	=		0.1	0.88	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Lead	0.018	mg/L	=		0.003	0.018	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Manganese	0.123	mg/L	=		0.015	0.123	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Nitrobenzene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Potassium	5.2	mg/L	=		5	5.2	SW	Y	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW26	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	RDX	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Sulfate	4.6	mg/L	=		2	4.6	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Tetryl	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	Zinc	0.05	mg/L	=		0.02	0.05	SW	Y	#N/A	GPC	#N/A	#N/A
29SW26	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	m-Nitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	o-Nitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	p-Nitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
29SW26	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW04-930525	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Barium	0.0779	mg/L	=		0.02	0.0779	SW	Y	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW04-930525	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Chloride	3.7	mg/L	=		2	3.7	SW	Y	#N/A	GPC	#N/A	#N/A
32SW04-930525	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Chromium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Conductivity	190	umhos	=		0	190	SW	Y	#N/A	GPC	#N/A	#N/A
32SW04-930525	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Lead	0.00329	mg/L	=		0.002	0.00329	SW	Y	#N/A	GPC	#N/A	#N/A
32SW04-930525	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Sulfate	7.1	mg/L	=		2	7.1	SW	Y	#N/A	GPC	#N/A	#N/A
32SW04-930525	Temperature	21.8	Deg C	=		0	21.8	SW	Y	#N/A	GPC	#N/A	#N/A
32SW04-930525	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Tetryl	0.8	ug/L	<	UR	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW04-930525	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	pH	6.68	PH UNITS	=		0	6.68	SW	Y	#N/A	GPC	#N/A	#N/A
32SW04-930525	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW04-930525	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW05-930506	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Barium	0.0995	mg/L	=		0.02	0.0995	SW	Y	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Chloride	2	mg/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW05-930506	Conductivity	96	umhos	=		0	96	SW	Y	#N/A	GPC	#N/A	#N/A
32SW05-930506	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Lead	0.00374	mg/L	=		0.002	0.00374	SW	Y	#N/A	GPC	#N/A	#N/A
32SW05-930506	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Sulfate	2	mg/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Temperature	20.3	Deg C	=		0	20.3	SW	Y	#N/A	GPC	#N/A	#N/A
32SW05-930506	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW05-930506	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	pH	6.47	PH UNITS	=		0	6.47	SW	Y	#N/A	GPC	#N/A	#N/A
32SW05-930506	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW05-930506	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW06-930525	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Barium	0.396	mg/L	=		0.02	0.396	SW	Y	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Chloride	19.7	mg/L	=		2	19.7	SW	Y	#N/A	GPC	#N/A	#N/A
32SW06-930525	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Chromium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Conductivity	330	umhos	=		0	330	SW	Y	#N/A	GPC	#N/A	#N/A
32SW06-930525	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW06-930525	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Lead	0.252	mg/L	=		0.002	0.252	SW	Y	#N/A	GPC	#N/A	#N/A
32SW06-930525	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Sulfate	104.5	mg/L	=		4	104.5	SW	Y	#N/A	GPC	#N/A	#N/A
32SW06-930525	Temperature	20.3	Deg C	=		0	20.3	SW	Y	#N/A	GPC	#N/A	#N/A
32SW06-930525	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Tetryl	0.8	ug/L	<	UR	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW06-930525	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	pH	4.92	PH UNITS	=		0	4.92	SW	Y	#N/A	GPC	#N/A	#N/A
32SW06-930525	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW06-930525	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW07-930504	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Barium	0.0639	mg/L	=		0.02	0.0639	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Chloride	25	mg/L	=		2	25	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Conductivity	310	umhos	=		0	310	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW07-930504	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Lead	0.0125	mg/L	=		0.002	0.0125	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Nitrate	5.45	mg/L	=		0.1	5.45	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Sulfate	28.9	mg/L	=		2	28.9	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	Temperature	17	Deg C	=		0	17	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	pH	6.59	PH UNITS	=		0	6.59	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-930504	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-930504	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW07-QC	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,3-Dinitrobenzene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4,6-Trinitrotoluene	0.11	ug/L	<	U	0.11	0.11	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	2-Propenal	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW07-QC	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Barium	0.0682	mg/L	=		0.02	0.0682	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Chloride	25.2	mg/L	=		2	25.2	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-QC	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Dibromomethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Diphenylamine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Lead	0.0181	mg/L	=		0.002	0.0181	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-QC	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW07-QC	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Nitrate	4.98	mg/L	=		0.1	4.98	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-QC	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Sulfate	29.5	mg/L	=		2	29.5	SW	Y	#N/A	GPC	#N/A	#N/A
32SW07-QC	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW07-QC	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Barium	0.059	mg/L	=		0.01	0.059	SW	Y	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW11(WATER)	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Lead	0.042	mg/L	=		0.002	0.042	SW	Y	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	Zinc	0.011	mg/L	=		0.003	0.011	SW	Y	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW11(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Antimony	0.01	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Barium	0.169	mg/L	=		0.01	0.169	SW	Y	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Copper	0.009	mg/L	=		0.005	0.009	SW	Y	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Lead	0.054	mg/L	=		0.01	0.054	SW	Y	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Selenium	0.02	mg/L	<	U	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	Zinc	0.104	mg/L	=		0.003	0.104	SW	Y	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW12(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW13(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Barium	0.062	mg/L	=		0.01	0.062	SW	Y	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Lead	0.004	mg/L	=		0.002	0.004	SW	Y	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	Zinc	0.006	mg/L	=		0.003	0.006	SW	Y	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	1,3,5-Trinitrobenzene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	1,3-Dinitrobenzene	0.2	ug/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	2,4,6-Trinitrotoluene	0.7	ug/L	<	U	0.7	0.7	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	2,6-Dinitrotoluene	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Barium	0.061	mg/L	=		0.01	0.061	SW	Y	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Copper	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	HMX	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Lead	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	RDX	0.6	ug/L	<	U	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Tetryl	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	Zinc	0.005	mg/L	=		0.003	0.005	SW	Y	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	#N/A	GPC	#N/A	#N/A
32SW13(WATER)QC	p-Nitrotoluene	0.4	ug/L	<	U	0.4	0.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17-981008	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,4,6,7,8-Heptachlorodibenzofuran	3.32	pg/L	<	UJ	3.32	3.32	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,4,6,7,8-HpCDD	8.96	pg/L	<	UJ	8.96	8.96	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,4,7,8,9-Heptachlorodibenzofuran	4.15	pg/L	<	UJ	4.15	4.15	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	6.85	pg/L	<	UJ	6.85	6.85	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,4,7,8-Hexachlorodibenzofuran	3.13	pg/L	<	UJ	3.13	3.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	6.35	pg/L	<	UJ	6.35	6.35	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,6,7,8-Hexachlorodibenzofuran	3.02	pg/L	<	UJ	3.02	3.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	6.07	pg/L	<	UJ	6.07	6.07	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,7,8,9-Hexachlorodibenzofuran	3.79	pg/L	<	UJ	3.79	3.79	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,7,8-Pentachlordibenzo-p-dioxin	7.32	pg/L	<	UJ	7.32	7.32	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3,7,8-Pentachlorodibenzofuran	4.47	pg/L	<	UJ	4.47	4.47	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,3,4,6,7,8-Hexachlorodibenzofuran	3.4	pg/L	<	UJ	3.4	3.4	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,3,4,7,8-Pentachlorodibenzofuran	4.55	pg/L	<	UJ	4.55	4.55	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,3,7,8-TCDD	5.87	pg/L	<	UJ	5.87	5.87	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,3,7,8-TCDF	7.86	pg/L	<	UJ	7.86	7.86	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17-981008	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4,4'-DDD	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4,4'-DDE	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4,4'-DDT	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aldrin	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aluminum	0.48	mg/L	=		0.2	0.48	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aroclor 1016	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aroclor 1221	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aroclor 1232	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aroclor 1242	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aroclor 1248	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aroclor 1254	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Aroclor 1260	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17-981008	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Calcium	8.6	mg/L	=		5	8.6	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chlordane	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chloride	2.83	mg/L	=		0.2	2.83	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Dieldrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Endosulfan I	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Endosulfan II	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Endosulfan Sulfate	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Endrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Endrin aldehyde	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Endrin ketone	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Heptachlor	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Heptachlor epoxide	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Heptachlorodibenzo-p-dioxin	8.96	pg/L	<	U	8.96	8.96	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Heptachlorodibenzofuran	3.32	pg/L	<	U	3.32	3.32	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Hexachloridibenzo-p-dioxin	6.35	pg/L	<	U	6.35	6.35	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17-981008	Hexachlorodibenzofuran	3.02	pg/L	<	U	3.02	3.02	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Iron	1.2	mg/L	=		0.1	1.2	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Lead	0.009	mg/L	=		0.003	0.009	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	METHOXYCHLOR	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Manganese	1.38	mg/L	=		0.015	1.38	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Octabchlorodibenzo-p-dioxin	9.42	pg/L	<	UJ	9.42	9.42	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Octabchlorodibenzofuran	9.44	pg/L	<	UJ	9.44	9.44	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Pentachlorodibenzo-p-dioxin	7.32	pg/L	<	U	7.32	7.32	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Pentachlorodibenzofuran	4.55	pg/L	<	U	4.55	4.55	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Potassium	5.3	mg/L	=		5	5.3	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Strontium	0.06	mg/L	=		0.05	0.06	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Sulfate	4	mg/L	=		2	4	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	Tetrachlorodibenzo-p-dioxin	5.87	pg/L	<	U	5.87	5.87	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Tetrachlorodibenzofuran, Total	7.86	pg/L	<	U	7.86	7.86	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Toxaphene	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17-981008	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	Zinc	0.04	mg/L	=		0.02	0.04	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17-981008	alpha-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	beta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	delta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	gamma-BHC (Lindane)	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17-981008	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.785	pg/L	<	UJ	2.785	2.785	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,4,6,7,8-HpCDD	5.683	pg/L	<	UJ	5.683	5.683	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.486	pg/L	<	UJ	3.486	3.486	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	5.637	pg/L	<	UJ	5.637	5.637	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,4,7,8-Hexachlorodibenzofuran	4.126	pg/L	<	UJ	4.126	4.126	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	5.221	pg/L	<	UJ	5.221	5.221	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,6,7,8-Hexachlorodibenzofuran	3.985	pg/L	<	UJ	3.985	3.985	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	4.995	pg/L	<	UJ	4.995	4.995	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,7,8,9-Hexachlorodibenzofuran	5.004	pg/L	<	UJ	5.004	5.004	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,7,8-Pentachlordibenzo-p-dioxin	7.924	pg/L	<	UJ	7.924	7.924	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3,7,8-Pentachlorodibenzofuran	5.227	pg/L	<	UJ	5.227	5.227	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17QC	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,3,5-Trinitrobenzene	0.39	ug/L	<	UJ	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,3-Dinitrobenzene	0.13	ug/L	<	UJ	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,3,4,6,7,8-Hexachlorodibenzofuran	4.483	pg/L	<	UJ	4.483	4.483	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,3,4,7,8-Pentachlorodibenzofuran	5.316	pg/L	<	UJ	5.316	5.316	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,3,7,8-TCDD	3.98	pg/L	<	UJ	3.98	3.98	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,3,7,8-TCDF	7.404	pg/L	<	UJ	7.404	7.404	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4,6-Trinitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,4-Dinitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2,6-Dinitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	UJ	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4,4'-DDD	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4,4'-DDE	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17QC	4,4'-DDT	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	UJ	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aldrin	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aluminum	0.51	mg/L	=		0.2	0.51	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aroclor 1016	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aroclor 1221	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aroclor 1232	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aroclor 1242	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aroclor 1248	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aroclor 1254	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Aroclor 1260	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Arsenic	0.025	mg/L	=		0.01	0.025	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Calcium	8.9	mg/L	=		5	8.9	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Chlordane	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Chloride	3.15	mg/L	=		0.2	3.15	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17QC	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Dieldrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Endosulfan I	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Endosulfan II	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Endosulfan Sulfate	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Endrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Endrin aldehyde	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Endrin ketone	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	HMX	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Heptachlor	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Heptachlor epoxide	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Heptachlorodibenzo-p-dioxin	5.683	pg/L	<	U	5.683	5.683	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Heptachlorodibenzofuran	2.785	pg/L	<	U	2.785	2.785	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Hexachloridibenzo-p-dioxin	5.221	pg/L	<	U	5.221	5.221	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Hexachlorodibenzofuran	3.985	pg/L	<	U	3.985	3.985	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Iron	1.2	mg/L	=		0.1	1.2	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Lead	0.007	mg/L	=		0.003	0.007	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	METHOXYCHLOR	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Manganese	1.38	mg/L	=		0.015	1.38	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17QC	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Nitrobenzene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Octabchlorodibenzo-p-dioxin	13.102	pg/L	=	UJ	4.172	13.102	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Octabchlorodibenzofuran	7.258	pg/L	<	UJ	7.258	7.258	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Pentachlorodibenzo-p-dioxin	7.924	pg/L	<	U	7.924	7.924	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Pentachlorodibenzofuran	5.316	pg/L	<	U	5.316	5.316	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Potassium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	RDX	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Strontium	0.06	mg/L	=		0.05	0.06	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Sulfate	4	mg/L	=		2	4	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	Tetrachlorodibenzo-p-dioxin	7.488	pg/L	<	U	7.488	7.488	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Tetrachlorodibenzofuran, Total	7.404	pg/L	<	U	7.404	7.404	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Tetryl	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Toxaphene	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	Zinc	0.05	mg/L	=		0.02	0.05	SW	Y	#N/A	GPC	#N/A	#N/A
32SW17QC	alpha-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	beta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	delta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW17QC	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	gamma-BHC (Lindane)	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	m-Nitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	o-Nitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	p-Nitrotoluene	0.26	ug/L	<	UJ	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QC	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW17QCRE	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.066	pg/L	<	U	1.066	1.066	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,4,6,7,8-HpCDD	7.82	pg/L	=		1.825	7.82	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.335	pg/L	<	U	1.335	1.335	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	2.642	pg/L	<	U	2.642	2.642	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,4,7,8-Hexachlorodibenzofuran	1.685	pg/L	<	U	1.685	1.685	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	2.447	pg/L	<	U	2.447	2.447	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,6,7,8-Hexachlorodibenzofuran	1.627	pg/L	<	U	1.627	1.627	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	2.341	pg/L	<	U	2.341	2.341	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,7,8,9-Hexachlorodibenzofuran	2.043	pg/L	<	U	2.043	2.043	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,7,8-Pentachlordibenzo-p-dioxin	2.986	pg/L	<	U	2.986	2.986	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3,7,8-Pentachlorodibenzofuran	1.397	pg/L	<	U	1.397	1.397	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW18-981008	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,3,4,6,7,8-Hexachlorodibenzofuran	1.831	pg/L	<	U	1.831	1.831	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,3,4,7,8-Pentachlorodibenzofuran	1.421	pg/L	<	U	1.421	1.421	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,3,7,8-TCDD	2.658	pg/L	<	U	2.658	2.658	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,3,7,8-TCDF	1.978	pg/L	<	U	1.978	1.978	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW18-981008	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aluminum	1.3	mg/L	=		0.2	1.3	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Calcium	5.7	mg/L	=		5	5.7	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Chlordane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Chloride	1.84	mg/L	=		0.2	1.84	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW18-981008	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Heptachlorodibenzo-p-dioxin	7.826	pg/L	=		1.825	7.826	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Heptachlorodibenzofuran	1.066	pg/L	<	U	1.066	1.066	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Hexachloridibenzo-p-dioxin	2.447	pg/L	<	U	2.447	2.447	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Hexachlorodibenzofuran	1.627	pg/L	<	U	1.627	1.627	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Iron	1.6	mg/L	=		0.1	1.6	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Lead	0.004	mg/L	=		0.003	0.004	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Manganese	0.204	mg/L	=		0.015	0.204	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW18-981008	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Nitrate / Nitrite	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Octabchlorodibenzo-p-dioxin	173.064	pg/L	=		3.528	173.064	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Octabchlorodibenzofuran	3.698	pg/L	<	U	3.698	3.698	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Pentachlorodibenzo-p-dioxin	2.986	pg/L	<	U	2.986	2.986	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Pentachlorodibenzofuran	1.421	pg/L	<	U	1.421	1.421	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Potassium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Sulfate	9.1	mg/L	=		2	9.1	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	Tetrachlorodibenzo-p-dioxin	2.658	pg/L	<	U	2.658	2.658	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Tetrachlorodibenzofuran, Total	1.978	pg/L	<	U	1.978	1.978	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Toxaphene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	Zinc	0.03	mg/L	=		0.02	0.03	SW	Y	#N/A	GPC	#N/A	#N/A
32SW18-981008	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
32SW18-981008	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
32SW18-981008	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW01-981109	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Aluminum	210	mg/L	=		0.2	210	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Arsenic	0.066	mg/L	=		0.01	0.066	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Barium	3.3	mg/L	=		0.2	3.3	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Beryllium	0.0119	mg/L	=		0.0005	0.0119	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW01-981109	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Cadmium	0.0067	mg/L	=		0.0008	0.0067	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Calcium	58	mg/L	=		5	58	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Chromium	0.23	mg/L	=	J	0.01	0.23	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Cobalt	0.12	mg/L	=		0.05	0.12	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Copper	0.106	mg/L	=		0.025	0.106	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Cyanide, Total	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	HARDNESS (as CaCO3)	68	mg/L	=		0	68	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Iron	220	mg/L	=	J	0.1	220	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Lead	0.292	mg/L	=		0.003	0.292	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Magnesium	13	mg/L	=		5	13	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Manganese	11.8	mg/L	=		0.015	11.8	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Nickel	0.11	mg/L	=		0.04	0.11	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW01-981109	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Potassium	17	mg/L	=		5	17	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Sodium	9.6	mg/L	=		5	9.6	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Strontium	0.29	mg/L	=		0.05	0.29	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Thallium	0.0024	mg/L	=	J	0.001	0.0024	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Tin	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Vanadium	0.48	mg/L	=		0.05	0.48	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	Zinc	3.3	mg/L	=		0.02	3.3	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	m-Nitrotoluene	3.6	ug/L	=		0.26	3.6	SW	Y	#N/A	GPC	#N/A	#N/A
46SW01-981109	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981109	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW01-981203	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Chlordane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	Toxaphene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW01-981203	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.923	pg/L	<	U	0.923	0.923	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,4,6,7,8-HpCDD	1.665	pg/L	<	U	1.665	1.665	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.155	pg/L	<	U	1.155	1.155	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	1.614	pg/L	<	U	1.614	1.614	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,4,7,8-Hexachlorodibenzofuran	0.789	pg/L	<	U	0.789	0.789	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	1.495	pg/L	<	U	1.495	1.495	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,6,7,8-Hexachlorodibenzofuran	0.762	pg/L	<	U	0.762	0.762	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	1.43	pg/L	<	U	1.43	1.43	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,7,8,9-Hexachlorodibenzofuran	0.956	pg/L	<	U	0.956	0.956	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,7,8-Pentachlordibenzo-p-dioxin	1.33	pg/L	<	U	1.33	1.33	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3,7,8-Pentachlorodibenzofuran	1.006	pg/L	<	U	1.006	1.006	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW02-981109	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,3,4,6,7,8-Hexachlorodibenzofuran	0.857	pg/L	<	U	0.857	0.857	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,3,4,7,8-Pentachlorodibenzofuran	1.023	pg/L	<	U	1.023	1.023	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,3,7,8-TCDD	1.416	pg/L	<	U	1.416	1.416	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,3,7,8-TCDF	2.044	pg/L	<	U	2.044	2.044	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW02-981109	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aluminum	0.48	mg/L	=		0.2	0.48	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Calcium	18	mg/L	=		5	18	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Chlordane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Chromium	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW02-981109	Cyanide, Total	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	HARDNESS (as CaCO3)	72	mg/L	=		0	72	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Heptachlorodibenzo-p-dioxin	1.665	pg/L	<	U	1.665	1.665	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Heptachlorodibenzofuran	0.923	pg/L	<	U	0.923	0.923	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Hexachloridibenzo-p-dioxin	1.495	pg/L	<	U	1.495	1.495	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Hexachlorodibenzofuran	0.762	pg/L	<	U	0.762	0.762	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Iron	0.83	mg/L	=	J	0.1	0.83	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Manganese	0.09	mg/L	=		0.015	0.09	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW02-981109	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Octabchlorodibenzo-p-dioxin	49.511	pg/L	=		1.519	49.511	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Octabchlorodibenzofuran	3.128	pg/L	<	U	3.128	3.128	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Pentachlorodibenzo-p-dioxin	1.33	pg/L	<	U	1.33	1.33	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Pentachlorodibenzofuran	1.023	pg/L	<	U	1.023	1.023	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Potassium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Sodium	5.8	mg/L	=		5	5.8	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Strontium	0.07	mg/L	=		0.05	0.07	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Tetrachlorodibenzo-p-dioxin	1.416	pg/L	<	U	1.416	1.416	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Tetrachlorodibenzofuran, Total	2.044	pg/L	<	U	2.044	2.044	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Thallium	0.0019	mg/L	=	J	0.001	0.0019	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	Tin	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Toxaphene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	Zinc	0.04	mg/L	=		0.02	0.04	SW	Y	#N/A	GPC	#N/A	#N/A
46SW02-981109	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW02-981109	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW02-981109	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.657	pg/L	<	U	1.657	1.657	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,4,6,7,8-HpCDD	6.258	pg/L	=	J	2.22	6.258	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.074	pg/L	<	U	2.074	2.074	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	1.786	pg/L	<	U	1.786	1.786	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,4,7,8-Hexachlorodibenzofuran	0.861	pg/L	<	U	0.861	0.861	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	1.655	pg/L	<	U	1.655	1.655	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,6,7,8-Hexachlorodibenzofuran	0.832	pg/L	<	U	0.832	0.832	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	1.583	pg/L	<	U	1.583	1.583	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,7,8,9-Hexachlorodibenzofuran	1.044	pg/L	<	U	1.044	1.044	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,7,8-Pentachlordibenzo-p-dioxin	1.384	pg/L	<	U	1.384	1.384	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3,7,8-Pentachlorodibenzofuran	1.213	pg/L	<	UJ	1.213	1.213	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05-981110	2,3,4,6,7,8-Hexachlorodibenzofuran	0.936	pg/L	<	U	0.936	0.936	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,3,4,7,8-Pentachlorodibenzofuran	1.234	pg/L	<	UJ	1.234	1.234	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,3,7,8-TCDD	1.512	pg/L	<	U	1.512	1.512	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,3,7,8-TCDF	2.09	pg/L	<	UJ	2.09	2.09	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4,4'-DDD	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4,4'-DDE	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4,4'-DDT	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aldrin	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aluminum	4.2	mg/L	=		0.2	4.2	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Antimony	0.037	mg/L	=		0.005	0.037	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aroclor 1016	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aroclor 1221	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05-981110	Aroclor 1232	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aroclor 1242	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aroclor 1248	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aroclor 1254	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Aroclor 1260	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Calcium	7.7	mg/L	=		5	7.7	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Chlordane	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Copper	0.052	mg/L	=		0.025	0.052	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Cyanide, Total	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Dieldrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Endosulfan I	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Endosulfan II	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Endosulfan Sulfate	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Endrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Endrin aldehyde	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Endrin ketone	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05-981110	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	HARDNESS (as CaCO3)	38	mg/L	=		0	38	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Heptachlor	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Heptachlor epoxide	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Heptachlorodibenzo-p-dioxin	13.618	pg/L	=		2.22	13.618	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Heptachlorodibenzofuran	1.657	pg/L	<	U	1.657	1.657	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Hexachloridibenzo-p-dioxin	1.655	pg/L	<	U	1.655	1.655	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Hexachlorodibenzofuran	0.832	pg/L	<	U	0.832	0.832	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Iron	4.4	mg/L	=		0.1	4.4	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	METHOXYCHLOR	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Manganese	0.038	mg/L	=		0.015	0.038	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Octabchlorodibenzo-p-dioxin	185.432	pg/L	=	J	2.803	185.432	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Octabchlorodibenzofuran	5.205	pg/L	<	U	5.205	5.205	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Pentachlorodibenzo-p-dioxin	1.384	pg/L	<	U	1.384	1.384	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Pentachlorodibenzofuran	1.234	pg/L	<	U	1.234	1.234	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Potassium	5	mg/L	<	UJ	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05-981110	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Tetrachlorodibenzo-p-dioxin	1.512	pg/L	<	U	1.512	1.512	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Tetrachlorodibenzofuran, Total	2.09	pg/L	<	U	2.09	2.09	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Thallium	0.0011	mg/L	=		0.001	0.0011	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	Tin	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Toxaphene	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	Zinc	0.14	mg/L	=		0.02	0.14	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05-981110	alpha-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	beta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	delta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	gamma-BHC (Lindane)	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05-981110	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05QC	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.929	pg/L	=		0.949	1.929	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,4,6,7,8-HpCDD	7.334	pg/L	=	J	2.603	7.334	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.188	pg/L	<	U	1.188	1.188	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	2.392	pg/L	<	UJ	2.392	2.392	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,4,7,8-Hexachlorodibenzofuran	1.231	pg/L	<	UJ	1.231	1.231	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	2.216	pg/L	<	UJ	2.216	2.216	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,6,7,8-Hexachlorodibenzofuran	1.189	pg/L	<	UJ	1.189	1.189	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	2.12	pg/L	<	UJ	2.12	2.12	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,7,8,9-Hexachlorodibenzofuran	1.493	pg/L	<	UJ	1.493	1.493	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,7,8-Pentachlordibenzo-p-dioxin	2.597	pg/L	<	U	2.597	2.597	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3,7,8-Pentachlorodibenzofuran	1.722	pg/L	<	UJ	1.722	1.722	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,3,4,6,7,8-Hexachlorodibenzofuran	1.338	pg/L	<	UJ	1.338	1.338	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,3,4,7,8-Pentachlorodibenzofuran	1.751	pg/L	<	UJ	1.751	1.751	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,3,7,8-TCDD	1.936	pg/L	<	UJ	1.936	1.936	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,3,7,8-TCDF	1.879	pg/L	<	UJ	1.879	1.879	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05QC	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4,4'-DDD	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4,4'-DDE	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4,4'-DDT	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aldrin	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aluminum	4.6	mg/L	=		0.2	4.6	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Antimony	0.006	mg/L	=		0.005	0.006	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Aroclor 1016	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aroclor 1221	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aroclor 1232	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aroclor 1242	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aroclor 1248	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aroclor 1254	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Aroclor 1260	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05QC	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Calcium	7.8	mg/L	=		5	7.8	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Chlordane	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Copper	0.026	mg/L	=		0.025	0.026	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Cyanide, Total	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Dieldrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Endosulfan I	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Endosulfan II	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Endosulfan Sulfate	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Endrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Endrin aldehyde	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Endrin ketone	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	HARDNESS (as CaCO3)	38	mg/L	=		0	38	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Heptachlor	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Heptachlor epoxide	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Heptachlorodibenzo-p-dioxin	13.975	pg/L	=		2.603	13.975	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Heptachlorodibenzofuran	0.949	pg/L	<	U	0.949	0.949	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Hexachloridibenzo-p-dioxin	2.216	pg/L	<	U	2.216	2.216	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05QC	Hexachlorodibenzofuran	1.189	pg/L	<	U	1.189	1.189	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Iron	4.5	mg/L	=		0.1	4.5	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Lead	0.007	mg/L	=		0.003	0.007	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	METHOXYCHLOR	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Manganese	0.035	mg/L	=		0.015	0.035	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Octabchlorodibenzo-p-dioxin	191.139	pg/L	=	J	3.894	191.139	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Octabchlorodibenzofuran	5.74	pg/L	<	U	5.74	5.74	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Pentachlorodibenzo-p-dioxin	2.597	pg/L	<	U	2.597	2.597	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Pentachlorodibenzofuran	1.751	pg/L	<	U	1.751	1.751	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Potassium	5	mg/L	<	UJ	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Tetrachlorodibenzo-p-dioxin	1.936	pg/L	<	U	1.936	1.936	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Tetrachlorodibenzofuran, Total	1.879	pg/L	<	U	1.879	1.879	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Thallium	0.0018	mg/L	=		0.001	0.0018	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	Tin	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Toxaphene	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW05QC	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	Zinc	0.14	mg/L	=		0.02	0.14	SW	Y	#N/A	GPC	#N/A	#N/A
46SW05QC	alpha-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	beta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	delta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	gamma-BHC (Lindane)	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW05QC	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW06-981110	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Aluminum	3.1	mg/L	=		0.2	3.1	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Antimony	0.005	mg/L	=		0.005	0.005	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW06-981110	Barium	0.2	mg/L	=		0.2	0.2	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Calcium	6.9	mg/L	=		5	6.9	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Cyanide, Total	0.01	mg/L	<	UJ	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	HARDNESS (as CaCO3)	60	mg/L	=		0	60	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW06-981110	Iron	2.8	mg/L	=		0.1	2.8	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Lead	0.003	mg/L	=		0.003	0.003	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Manganese	0.047	mg/L	=		0.015	0.047	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Potassium	5	mg/L	<	UJ	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Thallium	0.0011	mg/L	=		0.001	0.0011	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	Tin	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	Zinc	0.43	mg/L	=		0.02	0.43	SW	Y	#N/A	GPC	#N/A	#N/A
46SW06-981110	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	m-Cresol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
46SW06-981110	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981110	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	4,4'-DDD	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	4,4'-DDE	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	4,4'-DDT	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aldrin	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Chlordane	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Dieldrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Endosulfan I	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Endosulfan II	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Endosulfan Sulfate	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Endrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Endrin aldehyde	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Endrin ketone	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Heptachlor	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Heptachlor epoxide	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	METHOXYCHLOR	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	Toxaphene	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	alpha-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	beta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	delta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
46SW06-981203	gamma-BHC (Lindane)	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
C-29SW24-981008	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Butanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Hexanone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	2-Propenal	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4,4'-DDD	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4,4'-DDE	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4,4'-DDT	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
C-29SW24-981008	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Acetone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aldrin	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aluminum	0.59	mg/L	=		0.2	0.59	SW	Y	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aroclor 1016	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aroclor 1221	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aroclor 1232	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aroclor 1242	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aroclor 1248	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aroclor 1254	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Aroclor 1260	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Arsenic	0.017	mg/L	=		0.01	0.017	SW	Y	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Bromobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Bromoform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Bromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Calcium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Chlordane	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Chloroethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Chloroform	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Chloromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
C-29SW24-981008	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Dibromomethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Dieldrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Endosulfan I	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Endosulfan II	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Endosulfan Sulfate	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Endrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Endrin aldehyde	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Endrin ketone	0.1	ug/L	<	UJ	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Heptachlor	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Heptachlor epoxide	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Iron	0.84	mg/L	=		0.1	0.84	SW	Y	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	METHOXYCHLOR	0.5	ug/L	<	UJ	0.5	0.5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Magnesium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Manganese	0.133	mg/L	=		0.015	0.133	SW	Y	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Methylene chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Naphthalene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
C-29SW24-981008	Potassium	5.2	mg/L	=		5	5.2	SW	Y	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Propionitrile	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Sodium	5	mg/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Strontium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Styrene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Toluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Toxaphene	1	ug/L	<	UJ	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Trichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	Zinc	0.03	mg/L	=		0.02	0.03	SW	Y	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	alpha-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	beta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	delta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	gamma-BHC (Lindane)	0.05	ug/L	<	UJ	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	m-Cresol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
C-29SW24-981008	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW06	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,3,5-Trinitrobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,3-Dinitrobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4,6-Trinitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,4-Dinitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2,6-Dinitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Arsenic	0.02	mg/L	=		0.01	0.02	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW06	Barium	0.34	mg/L	=		0.01	0.34	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW06	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW06	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Chloride	5.3	mg/L	=		1	5.3	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW06	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	HMX	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Lead	0.04	mg/L	=		0.005	0.04	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW06	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	NIOBIUM	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Nitrate	0.09	mg/L	=		0.01	0.09	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW06	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	RDX	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW06	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Sulfate	2	mg/L	=		1	2	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW06	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Tetryl	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Toluene	6.3	ug/L	=		5	6.3	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW06	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	m-Nitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	o-Nitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	p-Nitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW06	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,3,5-Trinitrobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,3-Dinitrobenzene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4,6-Trinitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,4-Dinitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2,6-Dinitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW07	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Barium	0.47	mg/L	=		0.01	0.47	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Chloride	1.8	mg/L	=		1	1.8	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW07	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW07	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	HMX	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Lead	0.03	mg/L	=		0.005	0.03	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW07	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	NIOBIUM	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Nitrate	0.09	mg/L	=		0.01	0.09	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW07	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	RDX	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Sulfate	2	mg/L	=		1	2	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW07	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Tetryl	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	m-Nitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	o-Nitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	p-Nitrotoluene	1	ug/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW07	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW08	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,3,5-Trinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,3-Dinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4,6-Trinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,4-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2,6-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Barium	0.13	mg/L	=		0.01	0.13	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW08	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Chloride	7.1	mg/L	=		1	7.1	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	HMX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Lead	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	NIOBIUM	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Nitrate	0.02	mg/L	=		0.01	0.02	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	RDX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW08	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Sulfate	35	mg/L	=		1	35	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Tetryl	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	m-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	o-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	p-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,3,5-Trinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4,6-Trinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,4-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2,6-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW08-QC	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Barium	0.11	mg/L	=		0.01	0.11	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Chloride	4.4	mg/L	=		1	4.4	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW08-QC	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	HMX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Lead	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	NIOBIUM	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Nitrate	0.02	mg/L	=		0.01	0.02	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	RDX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Sulfate	33	mg/L	=		1	33	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Tetryl	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	m-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	o-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	p-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW08-QC	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW09	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,3,5-Trinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,3-Dinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4,6-Trinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,4-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2,6-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Barium	0.11	mg/L	=		0.01	0.11	SW	Y	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW09	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Chloride	6.2	mg/L	=		1	6.2	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW09	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	HMX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Lead	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	NIOBIUM	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Nitrate	0.02	mg/L	=		0.01	0.02	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW09	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW09	RDX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Sulfate	66	mg/L	=		1	66	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW09	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Tetryl	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	m-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	o-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	p-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW09	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,3,5-Trinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,3-Dinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4,6-Trinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,4-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2,6-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW10	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Barium	0.15	mg/L	=		0.01	0.15	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Chloride	9.7	mg/L	=		1	9.7	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW10	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW10	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	HMX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Lead	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	NIOBIUM	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Nitrate	0.19	mg/L	=		0.01	0.19	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW10	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	RDX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Sulfate	90	mg/L	=		2	90	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW10	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Tetryl	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	m-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	o-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW10	p-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW10	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,3,5-Trinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,3-Dinitrobenzene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4,6-Trinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,4-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2,6-Dinitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Butanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Hexanone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4-Chloro-3-methylphenol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4-Chloroaniline	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Acetone	100	ug/L	<	U	100	100	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Antimony	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW12	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Barium	0.06	mg/L	=		0.01	0.06	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Benzyl Alcohol	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Chloride	1	mg/L	<	U	1	1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Chromium	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	HMX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Lead	0.02	mg/L	=		0.005	0.02	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW12	Mercury	0.001	mg/L	<	U	0.001	0.001	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Methyl isobutyl ketone	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	NIOBIUM	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Nitrate	0.03	mg/L	=		0.01	0.03	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW12	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01-SW12	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	RDX	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Sulfate	2	mg/L	=		1	2	SW	Y	#N/A	GPC	#N/A	#N/A
LH01-SW12	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Tetryl	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Vinyl acetate	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	m-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	o-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	p-Nitrotoluene	0.1	ug/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01-SW12	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	1,3,5-Trinitrobenzene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	1,3-Dinitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	2,4,6-Trinitrotoluene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	2,4-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	2-Amino-4,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	4-Amino-2,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	HMX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	Nitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	RDX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	Tetryl	3.1	ug/L	<	U	3.1	3.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	m-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	o-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001	p-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	1,3,5-Trinitrobenzene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	1,3-Dinitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	2,4,6-Trinitrotoluene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	2,4-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	2-Amino-4,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	4-Amino-2,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	HMX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01A-SW01-4001QC	Nitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	RDX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	Tetryl	3.1	ug/L	<	U	3.1	3.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	m-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	o-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW01-4001QC	p-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	1,3,5-Trinitrobenzene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	1,3-Dinitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	2,4,6-Trinitrotoluene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	2,4-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	2-Amino-4,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	4-Amino-2,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	HMX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	Nitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	RDX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	Tetryl	3.1	ug/L	<	U	3.1	3.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	m-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	o-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW02-4001	p-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,3,5-Trinitrobenzene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,3-Dinitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4,6-Trinitrotoluene	1.3	ug/L	<	U	1.3	1.3	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,4-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Amino-4,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Butanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Hexanone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01A-SW03-4001	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4-Amino-2,6-dinitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Acenaphthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Acetone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Antimony	0.003	mg/L	<	U	0.003	0.003	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Arsenic	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Barium	0.32	mg/L	=		0.05	0.32	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Bromoform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Bromomethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Cadmium	0.01	mg/L	<	U	0.01	0.01	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Chloride	3.8	mg/L	=		2	3.8	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Chloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Chloroform	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Chloromethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Chromium	0.06	mg/L	=		0.02	0.06	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Chrysene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Conductivity	32.2	umhos	=		0	32.2	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Fluoranthene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Fluorene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01A-SW03-4001	HMX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Isophorone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Lead	0.02	mg/L	=		0.01	0.02	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Methylene chloride	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Naphthalene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Nickel	0.02	mg/L	<	U	0.02	0.02	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Nitrobenzene	0.31	ug/L	<	U	0.31	0.31	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Phenanthrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Phenol	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Pyrene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	RDX	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Selenium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Silver	0.03	mg/L	<	U	0.03	0.03	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Styrene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Sulfate	38.3	mg/L	=		25	38.3	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Tetryl	3.1	ug/L	<	U	3.1	3.1	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Thallium	0.002	mg/L	<	U	0.002	0.002	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Toluene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Trichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	bis(2-Ethylhexyl)phthalate	2	ug/L	=	J	10	2	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	m-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	o-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	p-Bromofluorobenzene	10	ug/L	<	U	10	10	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	p-Nitrotoluene	0.63	ug/L	<	U	0.63	0.63	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	pH	5.8	PH UNITS	=		0	5.8	SW	Y	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A
LH01A-SW03-4001	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	#N/A	GPC	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
LH01A-SW03-4001QC	Conductivity	31.1	umhos	=		0	31.1	SW	Y	#N/A	GPC	#N/A	#N/A
16SW02	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4,6-Trinitrotoluene	0.11	ug/L	<	U	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,4-Dinitrotoluene	0.021	ug/L	<	UJ	0.021	0.021	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Butanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Hexanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	2-Propenal	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
16SW02	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Acenaphthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW02	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Acetone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Arsenic	0.01	mg/L	<	UJ	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Barium	0.06	mg/L	=		0.02	0.06	SW	Y	CC	#N/A	#N/A	#N/A
16SW02	Benzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Bromomethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Chloride	2	mg/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Chloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Chloroform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Chloromethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Chrysene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Conductivity	280	umhos	=		0	280	SW	Y	CC	#N/A	#N/A	#N/A
16SW02	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Dibromomethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Diphenylamine	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Fluorene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Isophorone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Lead	0.01	mg/L	=		0.002	0.01	SW	Y	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW02	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Methylene chloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Naphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Phenanthrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Phenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	RDX	0.84	ug/L	<	UJ	0.84	0.84	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Styrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Sulfate	2	mg/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Temperature	18.6	Deg C	=		0	18.6	SW	Y	CC	#N/A	#N/A	#N/A
16SW02	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Toluene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Trichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	m-Cresol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
16SW02	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
16SW02	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
16SW02	pH	7.4	PH UNITS	=		0	7.4	SW	Y	CC	#N/A	#N/A	#N/A
16SW02	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW02(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	UJ	0.2	0.2	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	UJ	0.7	0.7	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Barium	0.163	mg/L	=		0.01	0.163	SW	Y	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Chromium	0.012	mg/L	=		0.01	0.012	SW	Y	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Copper	0.014	mg/L	=		0.005	0.014	SW	Y	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	HMX	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Lead	0.1	mg/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	RDX	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW02(WATER)	Tetryl	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	Zinc	0.06	mg/L	=		0.003	0.06	SW	Y	CC	#N/A	#N/A	#N/A
16SW02(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	p-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW02(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,3,5-Trinitrobenzene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,3-Dinitrobenzene	0.2	ug/L	<	UJ	0.2	0.2	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2,4,6-Trinitrotoluene	0.7	ug/L	<	UJ	0.7	0.7	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2,4-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2,6-Dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2-Amino-4,6-dinitrotoluene	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2-Butanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2-Chloroethyl vinyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2-Hexanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	2-Propenal	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	4-Amino-2,6-dinitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Acetone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Acrylonitrile	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Antimony	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Arsenic	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Barium	0.291	mg/L	=		0.01	0.291	SW	Y	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Benzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Bromoform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Bromomethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Chloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Chloroform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
16SW11(WATER)	Chloromethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Copper	0.012	mg/L	=		0.005	0.012	SW	Y	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Dibromomethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	HMX	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Lead	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Methylene chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Nitrobenzene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	RDX	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Styrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Tetryl	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Thallium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Toluene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Trichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	Zinc	0.055	mg/L	=		0.003	0.055	SW	Y	CC	#N/A	#N/A	#N/A
16SW11(WATER)	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	m-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	o-Nitrotoluene	0.6	ug/L	<	UJ	0.6	0.6	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	p-Nitrotoluene	0.4	ug/L	<	UJ	0.4	0.4	SW	N	CC	#N/A	#N/A	#N/A
16SW11(WATER)	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW01	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Butanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Hexanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	2-Propenal	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
29SW01	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Acenaphthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Acetone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Barium	0.076	mg/L	=		0.02	0.076	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	Benzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW01	Bromomethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Chloride	6.6	mg/L	=		2	6.6	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Chloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Chloroform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Chloromethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Chrysene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Conductivity	97	umhos	=		0	97	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Dibromomethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Diphenylamine	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Fluorene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Isophorone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Lead	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Methylene chloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Naphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Phenanthrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Phenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Styrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW01	Sulfate	9.4	mg/L	=		2	9.4	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	Temperature	17.9	Deg C	=		0	17.9	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Toluene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Trichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	m-Cresol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	m-Nitrotoluene	0.3	ug/L	=	UJ	0.25	0.3	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW01	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW01	o-Nitrotoluene	2.1	ug/L	=	UJ	0.25	2.1	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	p-Nitrotoluene	1.3	ug/L	=		0.25	1.3	SW	Y	CC	#N/A	#N/A	#N/A
29SW01	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW01	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,2-Diphenylhydrazine	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,3-Dinitrobenzene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	1-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,4,5-Trichlorophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,4,6-Trinitrotoluene	0.11	ug/L	<	UJ	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,4-Dinitrophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW10	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2,6-Dinitrotoluene	0.31	ug/L	<	UJ	0.31	0.31	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Butanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Hexanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	2-Propenal	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
29SW10	3-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4,6-Dinitro-2-methylphenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Nitroaniline	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	4-Nitrophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Acenaphthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Acetone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Barium	0.0289	mg/L	=		0.02	0.0289	SW	Y	CC	#N/A	#N/A	#N/A
29SW10	Benzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Benzo(a)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Bromomethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Chloride	2.6	mg/L	=		2	2.6	SW	Y	CC	#N/A	#N/A	#N/A
29SW10	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Chloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Chloroform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW10	Chloromethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Chrysene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Conductivity	26	umhos	=		0	26	SW	Y	CC	#N/A	#N/A	#N/A
29SW10	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Dibromomethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Diphenylamine	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Fluorene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	HMX	0.8	ug/L	<	UJ	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Hexachlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Isophorone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Lead	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Methylene chloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Naphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Pentachlorophenol	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Phenanthrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Phenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Styrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Sulfate	2.8	mg/L	=		2	2.8	SW	Y	CC	#N/A	#N/A	#N/A
29SW10	Temperature	19	Deg C	=		0	19	SW	Y	CC	#N/A	#N/A	#N/A
29SW10	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Toluene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Trichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW10	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	m-Cresol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW10	n-Nitroso-di-n-propylamine	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW10	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW10	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,1,1-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,1,2,2-Tetrachloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,1,2-Trichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,1-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,1-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,2,3-Trichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,2,4-Trichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,2-Dichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,2-Dichloroethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,2-Dichloropropane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,2-Diphenylhydrazine	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,3,5-Trinitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,3-Dichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,3-Dinitrobenzene	0.11	ug/L	<	U	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1,4-Dichlorobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	1-Chloronaphthalene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4,5-Trichlorophenol	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4,6-Trichlorophenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4,6-Trinitrotoluene	0.11	ug/L	<	U	0.11	0.11	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4-Dcihlorophenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4-Dimethylphenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4-Dinitrophenol	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,4-Dinitrotoluene	0.02	ug/L	<	UJ	0.02	0.02	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,6-Dinitrotoluene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2,6-Dinitrotoluene	0.31	ug/L	<	U	0.31	0.31	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Amino-4,6-dinitrotoluene	0.035	ug/L	<	UJ	0.035	0.035	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Butanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Chloronaphthalene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Chlorophenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Hexanone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Methylnaphthalene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW10-QC	2-Methylphenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Nitroaniline	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Nitrophenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	2-Propenal	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	3,3'-Dichlorobenzidine	20	ug/L	<	UJ	20	20	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	3-Nitroaniline	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4,6-Dinitro-2-methylphenol	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Amino-2,6-dinitrotoluene	0.06	ug/L	<	U	0.06	0.06	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Bromophenyl phenyl ether	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Chloro-3-methylphenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Chloroaniline	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Chlorophenyl phenyl ether	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Methylphenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Nitroaniline	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	4-Nitrophenol	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Acenaphthene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Acenaphthylene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Acetone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Acrylonitrile	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Anthracene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Antimony	0.03	mg/L	<	U	0.03	0.03	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Barium	0.0278	mg/L	=		0.02	0.0278	SW	Y	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzo(a)anthracene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzo(a)pyrene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzo(b)fluoranthene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzo(ghi)perylene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzo(k)fluoranthene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzoic Acid	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Benzyl Alcohol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Bromodichloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Bromomethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Butyl benzyl phthalate	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Cadmium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Carbon disulfide	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Carbon tetrachloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Chloride	2.4	mg/L	=		2	2.4	SW	Y	CC	#N/A	#N/A	#N/A
29SW10-QC	Chlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Chloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Chloroform	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Chloromethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Chrysene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Dibenzo(a,h)anthracene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Dibenzofuran	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Dibromomethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Dichlorodifluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Diethyl phthalate	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW10-QC	Dimethyl phthalate	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Diphenylamine	20	ug/L	<	UJ	20	20	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Ethylbenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Fluoranthene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Fluorene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	HMX	0.8	ug/L	<	U	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Hexachlorobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Hexachlorobutadiene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Hexachlorocyclopentadiene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Hexachloroethane	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	IODOMETHANE	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Indeno(1,2,3-cd)pyrene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Isophorone	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Lead	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Mercury	0.002	mg/L	<	U	0.002	0.002	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Methyl isobutyl ketone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Methylene chloride	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Naphthalene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Nickel	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Nitrate	0.1	mg/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Nitrobenzene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Nitrobenzene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Pentachlorophenol	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Phenanthrene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Phenol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Pyrene	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	RDX	0.84	ug/L	<	U	0.84	0.84	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Selenium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Silver	0.07	mg/L	<	U	0.07	0.07	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Styrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Sulfate	2.6	mg/L	=		2	2.6	SW	Y	CC	#N/A	#N/A	#N/A
29SW10-QC	Tetrachloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Tetryl	0.8	ug/L	<	U	0.8	0.8	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Thallium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Toluene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Trichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Trichlorofluoromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Vinyl acetate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Vinyl chloride	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	Xylenes, Total	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	bis(2-Chloroethoxy)methane	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	bis(2-Chloroethyl)ether	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	bis(2-Ethylhexyl)phthalate	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	cis-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	di-n-Butyl phthalate	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	di-n-Octyl phthalate	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	m-Cresol	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	m-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
29SW10-QC	n-Nitroso-di-n-propylamine	50	ug/L	<	UJ	50	50	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	n-Nitrosodiphenylamine	10	ug/L	<	UJ	10	10	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	o-Nitrotoluene	0.25	ug/L	<	UJ	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	p-Nitrotoluene	0.25	ug/L	<	U	0.25	0.25	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	trans-1,2-Dichloroethene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
29SW10-QC	trans-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.876	pg/L	<	U	0.876	0.876	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,4,6,7,8-HpCDD	1.23	pg/L	<	U	1.23	1.23	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.1	pg/L	<	U	1.1	1.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	1.42	pg/L	<	U	1.42	1.42	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,4,7,8-Hexachlorodibenzofuran	0.873	pg/L	<	U	0.873	0.873	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	1.32	pg/L	<	U	1.32	1.32	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,6,7,8-Hexachlorodibenzofuran	0.843	pg/L	<	U	0.843	0.843	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	1.26	pg/L	<	U	1.26	1.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,7,8,9-Hexachlorodibenzofuran	1.06	pg/L	<	U	1.06	1.06	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,7,8-Pentachlordibenzo-p-dioxin	1.28	pg/L	<	U	1.28	1.28	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3,7,8-Pentachlorodibenzofuran	1	pg/L	<	UJ	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,3,4,6,7,8-Hexachlorodibenzofuran	0.948	pg/L	<	U	0.948	0.948	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,3,4,7,8-Pentachlorodibenzofuran	1.02	pg/L	<	UJ	1.02	1.02	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,3,7,8-TCDD	1.4	pg/L	<	U	1.4	1.4	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,3,7,8-TCDF	1.46	pg/L	<	UJ	1.46	1.46	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-980916	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Butanone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Hexanone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	2-Propenal	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	3,3'-Dichlorobenzidine	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4,4'-DDD	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4,4'-DDE	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4,4'-DDT	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Acenaphthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Acetone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aldrin	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aluminum	0.78	mg/L	=		0.2	0.78	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Antimony	0.009	mg/L	=		0.005	0.009	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aroclor 1016	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aroclor 1221	1	ug/L	<	UJ	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aroclor 1232	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aroclor 1242	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aroclor 1248	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Aroclor 1254	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-980916	Aroclor 1260	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Arsenic	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzoic Acid	50	ug/L	<	U	50	50	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Benzyl Alcohol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Bromobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Bromoform	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Bromomethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Calcium	8.6	mg/L	=		5	8.6	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chlordane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chloride	7.38	mg/L	=		0.2	7.38	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chloroethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chloroform	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chloromethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Chrysene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Dibromomethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Dieldrin	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Endosulfan I	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Endosulfan II	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Endosulfan Sulfate	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Endrin	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Endrin aldehyde	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Endrin ketone	0.1	ug/L	<	U	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Fluorene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-980916	HARDNESS (as CaCO3)	46	mg/L	=		0	46	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Heptachlor	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Heptachlor epoxide	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Heptachlorodibenzo-p-dioxin	1.23	pg/L	<	U	1.23	1.23	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Heptachlorodibenzofuran	0.876	pg/L	<	U	0.876	0.876	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Hexachloridibenzo-p-dioxin	1.32	pg/L	<	U	1.32	1.32	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Hexachlorodibenzofuran	0.843	pg/L	<	U	0.843	0.843	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Iron	1.4	mg/L	=		0.1	1.4	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Isophorone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Lead	0.003	mg/L	<	U	0.003	0.003	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	METHOXYCHLOR	0.5	ug/L	<	U	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Magnesium	5.3	mg/L	=		5	5.3	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Manganese	0.134	mg/L	=		0.015	0.134	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Methylene chloride	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Naphthalene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Naphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Nitrate / Nitrite	0.205	mg/L	=		0.1	0.205	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Octabchlorodibenzo-p-dioxin	34.3	pg/L	=	U	1.56	34.3	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Octabchlorodibenzofuran	14.3	pg/L	=		2.44	14.3	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Pentachlorodibenzo-p-dioxin	1.28	pg/L	<	U	1.28	1.28	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Pentachlorodibenzofuran	1.02	pg/L	<	U	1.02	1.02	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Phenanthrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Phenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Potassium	5	mg/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Propionitrile	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Sodium	6.7	mg/L	=		5	6.7	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Strontium	0.1	mg/L	=		0.05	0.1	SW	Y	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-980916	Styrene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Sulfate	38	mg/L	=		2	38	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	Tetrachlorodibenzo-p-dioxin	1.4	pg/L	<	U	1.4	1.4	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Tetrachlorodibenzofuran, Total	1.46	pg/L	<	U	1.46	1.46	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Toluene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Toxaphene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Trichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	Zinc	0.04	mg/L	=		0.02	0.04	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-980916	alpha-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	beta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	delta-BHC	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	gamma-BHC (Lindane)	0.05	ug/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	m-Cresol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-980916	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,1,1,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,1,1-Trichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,1,2,2-Tetrachloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,1,2-Trichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,1-Dichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,1-Dichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,1-Dichloropropene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.749	pg/L	<	U	1.749	1.749	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-981204	1,2,3,4,6,7,8-HpCDD	2.784	pg/L	<	U	2.784	2.784	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.335	pg/L	<	U	2.335	2.335	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,4,7,8-Hexachlordibenzo-p-dioxin	2.685	pg/L	<	U	2.685	2.685	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,4,7,8-Hexachlorodibenzofuran	1.604	pg/L	<	U	1.604	1.604	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,6,7,8-Hexachlordibenzo-p-dioxin	1.5	pg/L	<	U	1.5	1.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,6,7,8-Hexachlorodibenzofuran	1.069	pg/L	<	U	1.069	1.069	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,7,8,9-Hexachlordibenzo-p-dioxin	1.781	pg/L	<	U	1.781	1.781	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,7,8,9-Hexachlorodibenzofuran	1.744	pg/L	<	U	1.744	1.744	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,7,8-Pentachlordibenzo-p-dioxin	3.043	pg/L	<	U	3.043	3.043	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3,7,8-Pentachlorodibenzofuran	2.086	pg/L	<	U	2.086	2.086	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,3-Trichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,4-Trichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,4-Trichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2,4-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2-Dibromo-3-chloropropane	4	ug/L	<	U	4	4	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2-Dibromoethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2-Dichloroethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,3,5-Trimethylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,3,5-Trinitrobenzene	0.39	ug/L	<	U	0.39	0.39	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,3-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,3-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,3-Dichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,3-Dinitrobenzene	0.13	ug/L	<	U	0.13	0.13	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,4-Dichloro-2-butene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,4-Dichlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,4-Dichlorobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	1,4-Dioxane	200	ug/L	<	U	200	200	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,2-Dichloropropane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,3,4,6,7,8-Hexachlorodibenzofuran	1.566	pg/L	<	U	1.566	1.566	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,3,4,7,8-Pentachlorodibenzofuran	2.179	pg/L	<	U	2.179	2.179	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,3,7,8-TCDD	3.082	pg/L	<	U	3.082	3.082	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,3,7,8-TCDF	2.882	pg/L	<	U	2.882	2.882	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4,5-Trichlorophenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4,6-Trichlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4,6-Trinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4-Dcihlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4-Dimethylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4-Dinitrophenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,4-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,6-Dinitrotoluene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2,6-Dinitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Amino-4,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Butanone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Chloronaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Chlorophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-981204	2-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Hexanone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Methylnaphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Nitroaniline	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Nitrophenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	2-Propenal	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	3,3'-Dichlorobenzidine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	3-Nitroaniline	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4,4'-DDD	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4,4'-DDE	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4,4'-DDT	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4,6-Dinitro-2-methylphenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Amino-2,6-dinitrotoluene	0.13	ug/L	<	U	0.13	0.13	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Bromophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Chloro-3-methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Chloroaniline	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Chlorophenyl phenyl ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Chlorotoluene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Methylphenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Nitroaniline	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	4-Nitrophenol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Acenaphthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Acenaphthylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Acetone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Acrylonitrile	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aldrin	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aluminum	0.2	mg/L	<	U	0.2	0.2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Antimony	0.012	mg/L	=		0.005	0.012	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aroclor 1016	0.5	ug/L	<	U	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aroclor 1221	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aroclor 1232	0.5	ug/L	<	U	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aroclor 1242	0.5	ug/L	<	U	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aroclor 1248	0.5	ug/L	<	U	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aroclor 1254	0.5	ug/L	<	U	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Aroclor 1260	0.5	ug/L	<	U	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Arsenic	0.012	mg/L	=		0.01	0.012	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Barium	0.2	mg/L	<	U	0.2	0.2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzo(a)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzo(a)pyrene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzo(b)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzo(ghi)perylene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzo(k)fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzoic Acid	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Benzyl Alcohol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Beryllium	0.0005	mg/L	<	U	0.0005	0.0005	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Bromobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Bromochloromethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-981204	Bromodichloromethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Bromoform	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Bromomethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Butyl benzyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Cadmium	0.0008	mg/L	<	U	0.0008	0.0008	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Calcium	25	mg/L	=		5	25	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Carbon disulfide	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Carbon tetrachloride	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chlordane	1	ug/L	<	UJ	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chloride	31.8	mg/L	=		2	31.8	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chlorobenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chloroethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chloroform	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chloromethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chromium	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Chrysene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Cobalt	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Copper	0.025	mg/L	<	U	0.025	0.025	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Dibenzo(a,h)anthracene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Dibenzofuran	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Dibromochloromethane	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Dibromomethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Dichlorodifluoromethane	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Dieldrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Diethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Dimethyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Endosulfan I	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Endosulfan II	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Endosulfan Sulfate	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Endrin	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Endrin aldehyde	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Endrin ketone	0.1	ug/L	<	UJ	0.1	0.1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Ethyl methacrylate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Ethylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Fluoranthene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Fluorene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	HARDNESS (as CaCO3)	76	mg/L	=		0	76	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	HMX	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Heptachlor	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Heptachlor epoxide	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Heptachlorodibenzo-p-dioxin	2.784	pg/L	<	U	2.784	2.784	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Heptachlorodibenzofuran	1.749	pg/L	<	U	1.749	1.749	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Hexachloridibenzo-p-dioxin	1.5	pg/L	<	U	1.5	1.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Hexachlorobenzene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Hexachlorobutadiene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Hexachlorobutadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Hexachlorocyclopentadiene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Hexachlorodibenzofuran	1.069	pg/L	<	U	1.069	1.069	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Hexachloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	IODOMETHANE	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-981204	ISOBUTYL ALCOHOL	200	ug/L	<	U	200	200	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Indeno(1,2,3-cd)pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Iron	1.7	mg/L	=		0.1	1.7	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Isophorone	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Isopropylbenzene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Lead	0.004	mg/L	=		0.003	0.004	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	METHOXYCHLOR	0.5	ug/L	<	UJ	0.5	0.5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	METHYL METHACRYLATE	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Magnesium	19	mg/L	=		5	19	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Manganese	0.267	mg/L	=		0.015	0.267	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Mercury	0.0002	mg/L	<	U	0.0002	0.0002	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Methacrylonitrile	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Methyl isobutyl ketone	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Methylene chloride	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Naphthalene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Naphthalene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Nickel	0.04	mg/L	<	U	0.04	0.04	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Nitrate / Nitrite	0.159	mg/L	=	J	0.1	0.159	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Nitrobenzene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Nitrobenzene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Octabchlorodibenzo-p-dioxin	40.245	pg/L	<	UJ	40.245	40.245	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Octabchlorodibenzofuran	1.977	pg/L	<	U	1.977	1.977	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Pentachlorodibenzo-p-dioxin	3.043	pg/L	<	U	3.043	3.043	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Pentachlorodibenzofuran	2.179	pg/L	<	U	2.179	2.179	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Pentachloroethane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Pentachlorophenol	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Phenanthrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Phenol	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Potassium	5	mg/L	<	UJ	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Propionitrile	20	ug/L	<	U	20	20	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Pyrene	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	RDX	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Selenium	0.005	mg/L	<	U	0.005	0.005	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Silver	0.01	mg/L	<	U	0.01	0.01	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Sodium	24	mg/L	=		5	24	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Strontium	0.44	mg/L	=		0.05	0.44	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Styrene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Sulfate	110	mg/L	=		20	110	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	Tetrachlorodibenzo-p-dioxin	3.082	pg/L	<	U	3.082	3.082	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Tetrachlorodibenzofuran, Total	2.882	pg/L	<	U	2.882	2.882	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Tetrachloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Tetryl	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Thallium	0.001	mg/L	<	U	0.001	0.001	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Toluene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Toxaphene	1	ug/L	<	UJ	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Trichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Trichlorofluoromethane	2	ug/L	<	U	2	2	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Vanadium	0.05	mg/L	<	U	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Vinyl acetate	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Vinyl chloride	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A

SAMPLE_NO	PARAMETER	RESULT	UNITS	QUALIFIER	VALIDATION QUALIFIER	DETECT_LIMIT	VALIDVALUE	SAMPLE TYPE	DETECT	IF (CC)	IF (GPC)	IF (HB)	IF (SB)
CCSW01-981204	Xylenes, Total	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	Zinc	0.04	mg/L	=		0.02	0.04	SW	Y	CC	#N/A	#N/A	#N/A
CCSW01-981204	alpha-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	beta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	bis(2-Chloroethoxy)methane	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	bis(2-Chloroethyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	bis(2-Chloroisopropyl)ether	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	bis(2-Ethylhexyl)phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	cis-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	cis-1,3-Dichloropropene	5	ug/L	<	U	5	5	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	delta-BHC	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	di-n-Butyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	di-n-Octyl phthalate	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	gamma-BHC (Lindane)	0.05	ug/L	<	UJ	0.05	0.05	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	m-Cresol	25	ug/L	<	U	25	25	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	m-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	n-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	n-Nitroso-di-n-propylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	n-Nitrosodimethylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	n-Nitrosodiphenylamine	10	ug/L	<	U	10	10	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	n-PROPYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	o-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	p-ISOPROPYLTOLUENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	p-Nitrotoluene	0.26	ug/L	<	U	0.26	0.26	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	sec-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	tert-BUTYLBENZENE	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	trans-1,2-Dichloroethene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A
CCSW01-981204	trans-1,3-Dichloropropene	1	ug/L	<	U	1	1	SW	N	CC	#N/A	#N/A	#N/A

FINAL

INSTALLATION-WIDE BASELINE ECOLOGICAL RISK ASSESSMENT LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

VOLUME II: STEPS 4 THROUGH 8 REPORT

Prepared for

U.S. Army Corps of Engineers
Tulsa District
1645 South 101st Avenue
Tulsa, Oklahoma

Prepared by

Shaw Environmental, Inc.
3010 Briarpark Suite 400
Houston, Texas 77042

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Table of Contents

List of Tables iv
List of Figures v
List of Appendices v
Exhibit v
Acronyms and Abbreviations vi
Foreword viii

12.0 Step 4: Study Design and Data Quality Objectives Process 12-1
12.1 Establishing Measurement Endpoints 12-1
12.1.1 Sediment Toxicity 12-2
12.1.2 Bioaccumulation Exposures 12-3
12.2 Study Design 12-3
12.3 Data Quality Objectives and Statistical Considerations 12-4
12.3.1 Decision Rules for Risk Questions to Assessment Endpoint No. 1 12-4
12.3.2 Decision Rules for Risk Questions to Assessment Endpoint No 2 12-6
12.3.3 Decision Rules for Risk Questions to Assessment Endpoint No 3 12-8
12.4 Work Plans and Sampling and Analysis Plans 12-8
12.4.1 Summary of Chromium Speciation Work Plan 12-8
12.4.2 Summary of BERA Work Plan 12-9
12.4.3 Summary of Rodent Sperm Analysis Work Plan 12-9
13.0 Step 5: Field Verification of Sampling Design 13-1
14.0 Step 6: Site Investigation 14-1
14.1 Chromium Speciation Data Collection and Analysis 14-1
14.2 BERA Data Collection and Analysis 14-2
14.2.1 Soil to Earthworm Bioaccumulation – Data Collection and Analysis 14-6
14.2.2 Soil to Plant Bioaccumulation - Data Collection and Analysis 14-7
14.2.3 Sediment to Aquatic Invertebrate Bioaccumulation - Data Collection and Analysis 14-8
14.2.4 Summary of BERA BAFs 14-9
14.2.5 Sediment Toxicity - Data Collection and Analysis 14-10
14.2.6 Acid Volatile Sulfide Simultaneously Extracted Metals 14-12
14.3 Summary of RSA Data Collection and Analysis 14-12
14.3.1 RSA Findings 14-13
14.3.2 RSA Discussion 14-14
14.3.3 RSA Conclusions 14-15
15.0 Step 7: Risk Characterization 15-1
15.1 Refined Food Chain Modeling Results Using Site-Specific Data 15-1
15.2 Sediment Toxicity Test Results 15-2
15.3 Direct Contact Soil Toxicity Evaluation 15-3
15.3.1 Industrial Sub-Area 15-4
15.3.2 Low Impact Sub-Area 15-4
15.3.3 Waste Sub-Area 15-5
15.4 RSA Results 15-5
15.4.1 RSA Findings and LHAAP Chemical Concentrations in Soil 15-5

Table of Contents (continued)

15.5 Weight of Evidence Discussion 15-7
15.6 Additional Risk Information 15-8
15.7 Estimation of Food Web-Based Ecological PRGs 15-10
15.7.1 Soil 15-10
15.7.2 Sediment 15-13
15.8 Uncertainty Analysis 15-14
15.8.1 Sediment Toxicity 15-14
15.8.2 Thallium Sediment EEQs 15-16
15.8.3 Interpretation of EEQs 15-17
15.8.4 North Cove Sediment Lead 15-17
15.8.5 Estimation of EcoPRGs for COPECs with Regression-Based Uptake Factors 15-18
15.8.6 Surface Water Monitoring Discussion 15-18
15.8.7 Evaluation of Additional Samples Collected at Longhorn 15-18
15.8.7.1 Evaluation of Post-BERA Soil Data 15-20
15.8.7.2 Evaluation of Post-BERA Sediment 15-23
15.8.8 Potential Impacts to Plants and Soil Invertebrates 15-25
16.0 Step 8: Risk Management 16-1
16.1 Recommended Ecological PRGs 16-1
16.1.1 EcoPRG Selection for Final COPECs in Soil 16-2
16.1.2 EcoPRG Selection for Final COPECs in Sediment 16-9
16.1.3 Facility-Wide Attainment of EcoPRGs 16-11
16.1.4 Summary of Final EcoPRGs for Soil and Sediment 16-12
16.2 Summary of Decision Outcomes for Final COPECs 16-13
16.2.1 Soil Final COPECs 16-13
16.2.2 Sediment Final COPECs 16-14
16.3 Other Risk Management Considerations 16-14
16.4 Ecological Impacts of Remedial Options 16-15
16.5 Scientific Management Decision Point 16-16
17.0 References 17-1

List of Tables

Table 12-1 Summary of BERA Assessment and Measurement Endpoints
Table 12-2 BERA Assessment and Measurement Endpoints: Risk Questions and Testable Hypotheses
Table 14-1 Chromium Speciation Results for Soil
Table 14-2 Sample Summary for BERA Field Work
Table 14-3 Ratios Used for the Development of Soil-to-Earthworm Uptake Factors for Metals
Table 14-4 Ratios Used for the Development of Soil-to-Earthworm Uptake Factors for Explosives
Table 14-5 Results of Regression Analysis for Soil-to-Earthworm BAFs
Table 14-6 Ratios Used for the Development of Soil-to-Plant Uptake Factors for Metals
Table 14-7 Ratios Used for the Development of Soil-to-Plant Uptake Factors for Explosives
Table 14-8 Results of Regression Analysis for Soil-to-Plant BAFs
Table 14-9 Ratios Used for the Development of Sediment-to-Benthic Invertebrate Uptake Factors for Metals
Table 14-10 Results of Regression Analysis for Sediment-to-Benthic Invertebrate BAFs
Table 14-11 Selection of Final Soil-to-Earthworm Bioaccumulation Factors for Soil COPECs
Table 14-12 Selection of Final Soil-to-Plant Bioaccumulation Factors for Soil COPECs
Table 14-13 Selection of Final Sediment-to-Benthic Invertebrate Bioaccumulation Factors for Sediment COPECs
Table 15-1 BERA Wildlife EEQs for Food Chain Receptors With EEQs > 1, Industrial Sub-Area/Goose Prairie Creek Watershed
Table 15-2 BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Industrial Sub-Area/Central Creek Watershed
Table 15-3 BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Goose Prairie Creek Watershed
Table 15-4 BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Central Creek Watershed
Table 15-5 BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Harrison Bayou Watershed
Table 15-6 BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Saunders Branch Watershed
Table 15-7 BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Waste Sub-Area/Central Creek Watershed
Table 15-8 BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Waste Sub-Area/Harrison Bayou Watershed
Table 15-9 EEQs for Final COPECs Associated with Soil Exposure, Final BERA Food Chain Model Results
Table 15-10 EEQs for Final COPECs Associated with Sediment Exposure, Final BERA Food Chain Model Results
Table 15-11 Sample Locations Used to Determine Small Mammal Exposure Conditions
Table 15-12 Soil Concentrations Representative of Small Mammals Evaluated in the RSA Study
Table 15-13 Summary of Post-BERA Soil Data for Industrial Sub Area
Table 15-14 Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Total Soil: Industrial Sub-Area
Table 15-15 Summary of Post-BERA Soil Data for Low Impact Sub-Area

List of Tables (continued)

Table 15-16 Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Total Soil: Low Impact Sub-Area
Table 15-17 Summary of Post-BERA Soil Data for Waste Sub-Area
Table 15-18 Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Total Soil: Waste Sub-Area
Table 15-19 Summary of Post-BERA Sediment Data for Industrial Sub Area
Table 15-20 Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Sediment: Goose Prairie Creek Watershed
Table 15-21 Summary of Post-BERA Soil Data for Industrial Sub Area
Table 15-22 Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Sediment: Central Creek Watershed
Table 16-1 Calculation of Final EcoPRGs for Soil
Table 16-2 Calculation of Final EcoPRGs for Sediment

List of Figures

Figure 14-1 Locations of Soil Samples for Chromium Speciation in the Industrial Sub-Area
Figure 14-2 Locations of Soil Samples for Chromium Speciation in the Waste and Low Impact Sub-Areas
Figure 14-3 Comparison of 95% Confidence Intervals and Means Between the Trivalent and Hexavalent Chromium Ratios Determined for Possible Chromate and Non-Chromate Source Areas
Figure 14-4 Amphipod Survival vs. Metal Final COPEC Sediment Concentrations
Figure 14-5 Amphipod Growth vs. Metal Final COPEC Sediment Concentrations
Figure 14-6 USACHPPM Rodent Trapping Locations and Nearby Surface Soil and Dry Sediment Sample Locations
Figure 15-1 Concentrations of Mercury in Soil and Sediment Near Sample Location 49SD65
Figure 15-2 Concentrations of TNT, 2,4-DNT, and 2,6-DNT in Soil and Sediment Near Sample Location 29SD46

List of Appendices

Appendix L Chromium Speciation Study Results
Appendix M BERA Bioaccumulation Factor Data Analysis
Appendix N Bioassay Laboratory Report (Nautilus Environmental, Inc.)
Appendix O Food Chain Model Results Using Site-Specific Data (on Compact Disk)
Appendix P Rodent Sperm Analysis Report (USACHPPM, 2006)

Exhibit

Exhibit 1 Data Report (on Compact Disk)

Acronyms and Abbreviations

95 percent UCL	95 percent upper confidence limit – "a value that, when calculated repeatedly for randomly drawn subsets of site data, equals or exceeds the true mean 95 percent of the time"
ARAR	applicable or relevant and appropriate requirements
Army	U.S. Army
ASTM	ASTM International, formerly American Society for Testing and Materials
ATSDR	Agency for Toxic Substances and Disease Registry
AVS	acid volatile sulfides
BAF	bioaccumulation factor
BERA	baseline ecological risk assessment
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CLI	Caddo Lake Institute
COPEC	constituent of potential ecological concern
Cr	chromium
Cr^{VI}	chromium VI
Cr^{III}	chromium III
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenylethylene
DDT	dichlorodiphenyltrichloroethane
DNT	dinitrotoluene
DQO	data quality objective
EcoPRG	ecological preliminary remediation goal
Eco-SSL	ecological soil screening levels
EEQ	ecological effects quotient
EPC	exposure point concentration
ERA	ecological risk assessment
FS	feasibility study
H_0	null hypothesis
H_1	alternative hypothesis
LHAAP	Longhorn Army Ammunition Plant
LOAEL	lowest-observed-adverse-effect level
MARC	Multiple Award Remediation Contract
MDC	maximum detected concentration
MDL	method detection limit

Acronyms and Abbreviations (continued)

mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NOAEL	no-observed-adverse-effect level
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzo-p-dioxin
PCDF	polychlorinated dibenzofuran
PRG	preliminary remediation goal
RPD	relative percent difference
RSA	rodent sperm analysis
SAP	Sampling and Analysis Plan
SEM	simultaneously extracted metals
Shaw	Shaw Environmental, Inc.
SLERA	Screening Level Ecological Risk Assessment
SMDP	scientific/management decision point
TCDD	tetrachlorodibenzo-p-dioxin
TCEQ	Texas Commission on Environmental Quality
TEQ	toxicity equivalency quotient
TNRCC	Texas Natural Resource Conservation Commission
TNT	trinitrotoluene
TRV	toxicity reference value
UCL	upper confidence limit
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
XRF	x-ray fluorescence

Foreword

The objective of the Installation-Wide Baseline Ecological Risk Assessment is to present the detailed results of the U.S. Environmental Protection Agency's eight-step ecological risk assessment process as it is applied at the Longhorn Army Ammunition Plant (LHAAP). Volume I: Step 3 Report described the problem formulation and technical approach implemented at LHAAP including the selection of final constituents of potential ecological concern. Additional information regarding the further consideration of these final constituents of potential ecological concern is discussed in depth in Volume II: Steps 4 through 8, using site-specific data collected at the Installation as part of the eight-step ecological risk assessment process. A discussion of Steps 4 through 8, including Step 4: Study Design and Data Quality Objectives, Step 5: Verification of Field Sampling Design, Step 6: Site Investigation and Data Analysis that includes a description of collection techniques, Step 7: Risk Characterization, and Step 8: Risk Management, is presented herein.

12.0 Step 4: Study Design and Data Quality Objectives Process

Section 12.0 presents a summary of the Step 4 Study Design and Data Quality Objectives Process. Much of this information is also presented in the *Final Baseline Ecological Risk Assessment Field Sampling Work Plan* (Shaw, 2006b).

Step 4 of the ERA process represents the identification and design of the scientifically defensible site-specific investigations necessary to address the risk questions previously developed (**Section 11.0**). Specifically, Step 4 includes the following:

- Identification of specific data needs
- A restatement of the selection of assessment endpoints and specific measurement endpoints
- Determination of the type and amount of necessary data
- Identification of the specific methods for collecting and analyzing the data
- Selection of the appropriate risk characterization approach
- Selection of the specific study methods (e.g., toxicity tests, field surveys, tissue analyses)

12.1 Establishing Measurement Endpoints

A measurement endpoint represents that characteristic of the assessment endpoint that is directly measured in the BERA and used to establish, if possible, cause-and-effect relationships between the COPECs and the assessment endpoint. As presented in **Tables 12-1** and **12-2**, multiple measurement endpoints were evaluated for each assessment endpoint to support estimates of hazard associated with final COPECs in the soil and sediment at LHAAP. As discussed in **Volume I** (**Section 5.0**), all of the assessment endpoints listed relate to protection of populations and/or communities at LHAAP. It should be noted that some measurement endpoints are included in **Tables 12-1** and **12-2** that were not selected for further field work in the BERA. Specifically, assessment endpoint 3 (AE-3) in **Table 12-1**, which lists the protection of terrestrial plant and invertebrate populations as an assessment endpoint, was not further refined through additional field work in the BERA. This assessment endpoint was included as part of a project-specific agreement with LHAAP stakeholders in which organisms at the base-of-the-food-chain (i.e., plants and terrestrial invertebrates) would be evaluated as assessment endpoints, but remediation decisions would not be made based on the results of this evaluation. This compares with AE-1 (survival, growth, or reproduction of aquatic biota living in sediment), for which additional BERA field work was completed. Although aquatic biota living in sediment are base-

of-the-food-chain receptors as well, these receptors are formally evaluated as assessment endpoints due to the fact that USEPA and Texas promulgated ambient water quality criteria exist for the protection of aquatic life. No similar promulgated criteria exist for the protection of terrestrial base-of-the-food-chain receptors.

Measurement endpoints for the BERA include measures for both exposure (i.e., bioaccumulation) and effects (i.e., aquatic invertebrate mortality and growth). Measures for sediment toxicity effects and bioaccumulation and incidental soil and sediment ingestion exposures are addressed in the following subsections. The measurement endpoints are correlated with testable hypotheses, which are detailed in **Table 12-2**. It should be noted that Assessment Endpoint No. 3 (Protection of terrestrial plant and invertebrate populations) does not have a Step 4 measurement endpoint, risk question, or testable hypothesis, as it has been agreed to by all parties that no soil cleanup is necessary for the protection of base-of-the-food-chain receptors.

Site-specific data have been collected to support the analysis of some of the measurement endpoints. Details are presented in **Section 14.0**. Discussions on the use of the data collected are presented after the discussion of the measurement endpoints. Additional information regarding the use of the data is provided in the detailed presentation of the risk questions (**Section 12.3**, Data Quality Objectives and Statistical Considerations).

12.1.1 Sediment Toxicity

Laboratory toxicity tests measure toxicological effects of bioavailable fractions of COPECs in sediment under controlled conditions. Under Assessment Endpoint No. 1 these tests provide a relatively rapid, integrated measure of the effects of the COPECs in the sediment sample on a toxicologically sensitive form of test organism deemed appropriate for the environmental medium being evaluated. Laboratory measurements for sediment toxicity provide a number of advantages that include the following:

- Results integrate the additive and interactive effects of complex mixtures of COPECs that may be present in sediment
- Depending on the selected test, various endpoints may be examined using different exposure periods to predict potential impact at several levels of biological organization including physiological (e.g., growth), ontogenetic (development), behavioral (burrowing), or population (reproduction and mortality)
- Measures of toxicological effects can be incorporated into a subsequent remediation strategy either directly as a test of toxicity of field-collected sediment or indirectly as a component in the development of site-specific sediment quality criteria

The measurement endpoints recommended and used for the assessment of sediment toxicity are summarized in **Table 12-2** and include the following:

- Laboratory survival, growth, or reproduction of sediment-dwelling invertebrates
- The use of Acid Volatile Sulfides – Simultaneously Extracted Metals (AVS-SEM) data from the site to assess bioavailability

Results of toxicity tests are used to determine whether mean survival, growth, or reproduction of test organisms exposed to site media differs from survival, growth, or reproduction measured for test organisms exposed to control media and reference location areas. Details on the quantity and locations of samples were presented in the Sampling and Analysis Plan (SAP) (Shaw, 2006b).

12.1.2 Bioaccumulation Exposures

Details of the approaches for the assessment of exposures for bioaccumulation of COPECs for food-chain pathways for receptors selected to represent assessment endpoints are provided in **Tables 12-1** and **12-2**. Receptor bioaccumulation exposures for Assessment Endpoint No. 2 (i.e., assessment endpoints for birds and mammals) are assessed as either field-collected or laboratory-measured whole-organism tissue concentrations for a COPEC. The measurement endpoints associated with bioaccumulation exposure that have been identified for Assessment Endpoint No. 2 include the following:

Assessment Endpoint No. 2: Survival, growth, and reproduction of birds and mammals

- Sediment invertebrate bioaccumulation is estimated using laboratory bioaccumulation studies (freshwater aquatic worms)
- Plant bioaccumulation is estimated using co-located soil and plant samples
- Soil invertebrate bioaccumulation is estimated using laboratory bioaccumulation studies (earthworms)

Analytical data collected for estimating or measuring bioaccumulation for each measurement endpoint listed in **Table 12-2** is combined to calculate tissue concentrations for assessing potential hazard to birds and mammals that ingest plants and/or terrestrial or benthic invertebrates. For example, site-specific BAFs are multiplied by 95 percent UCL soil or sediment COPEC concentrations to estimate tissue concentrations (**Section 14.2**). Details for the quantity and locations of the samples that were used to calculate these BAFs were presented in the SAP (Shaw, 2006b**)**.

12.2 Study Design

The primary objective of the study design is to guide the preparation of a work plan and SAP that identifies the scientifically defensible investigations that will be used to evaluate the exposure and effects of COPECs at LHAAP based on the assessment endpoints initially identified in

Section 3.0 and refined in (**Volume I**) **Section 11.2** and in **Section 12.1**. These investigation methods are designed to address the following:

- Identify cause-and-effect relationships between COPECs and assessment endpoints
- Support a defensible risk characterization
- Support a risk management decision
- Support the development of EcoPRGs (if necessary)

Activities for the study design include refining measurement endpoints, if needed, for each assessment endpoint and developing assessment endpoint-specific methods using the DQO process.

12.3 Data Quality Objectives and Statistical Considerations

The DQO process is used to develop data to support defensible risk management decisions for the BERA. Information is incorporated during the DQO process to focus the study design. Output from the DQO process clarifies the objectives of sample collection and determines where and when to collect samples, limitations on sample collection, and the level of uncertainty that may be acceptable.

A critical component of the DQO process is the development of decision rules for the risk questions that have been developed. Guidance from the U.S. Department of the Navy (2001) states:

> "The output of the first four steps of the DQO process are integrated into a statement, the decision rule, which describes that logical basis for making a decision. A decision rule is an 'if…, then…' statement that defines the conditions that would cause the decision-maker to choose an action. In other words, it establishes the exact criteria for making a choice between taking or not taking an action."

The decision rule includes the following three main elements:

- The parameter of interest (e.g., protection of birds from sediment-based COPECs)
- An action level (specific to the measurement endpoint selected)
- Alternative actions or decision choices

12.3.1 Decision Rules for Risk Questions to Assessment Endpoint No. 1

Two measurement endpoints have been selected to assess the effects of sediment-derived COPECs on the survival, growth, or reproduction of aquatic biota in the aquatic environments of LHAAP, as presented in **Table 12-2**. For the relevant measurement endpoints, a statistically significant reduction of survival, growth, or reproduction by 20 percent or more (compared with the reference location or laboratory control if a reference is not available) is deemed potentially

biologically relevant. Each measurement endpoint has an associated risk question and a testable hypothesis from which specific decision rules can be derived, as follows.

Risk Question 1-1: Does exposure to site sediment cause reduced survival, growth, or reproduction for invertebrates in sediment?

> **Testable Hypothesis 1-1**: Means of laboratory survival, growth, or reproduction for invertebrates in site and reference location sediment and control are not significantly different.
>
> Decision Rule 1: If Testable Hypothesis 1-1 is accepted, a COPEC in site sediment poses an acceptable low hazard for invertebrates, as study results indicate that the mean survival, growth, or reproduction rates of invertebrates are not significantly impacted by COPECs in site sediment, relative to COPECs in sediment from an upgradient reference location or laboratory control.
>
> Decision Rule 2: If Testable Hypothesis 1-1 is rejected (and laboratory survival, growth, or reproduction is statistically lower than the reference location and the laboratory control), a COPEC in site sediment may pose an unacceptable hazard for invertebrates, as study results indicate that the mean survival, growth, or reproduction rates of invertebrates are impacted by COPECs in site sediment, relative to COPECs in sediment from an upgradient or other appropriate reference location and the laboratory control.

It should be noted that details on the acceptability criteria for the laboratory control and biologically significant differences were discussed in **Appendix A**, Section 5.2, of Shaw (2006b). If Decision Rule 2 is supported by the data and a clear dose-response relationship is observed, action levels of COPECs in sediment may be recommended.

Risk Question 1-2: Are metal COPECs bioavailable such that exposure to site sediment causes reduced survival, growth, or reproduction for invertebrates in sediment?

> **Testable Hypothesis 1-2**: Most (e.g., > 50 percent) of the AVS-SEM ratios in the samples are greater than 1, suggesting low bioavailability of metals.
>
> Decision Rule 1: If Testable Hypothesis 1-2 is accepted, a COPEC in sediment poses an acceptable low hazard for aquatic biota, as the findings indicate that survival, growth, and reproduction are not adversely impacted by COPECs in sediment because they are not bioavailable.
>
> Decision Rule 2: If Testable Hypothesis 1-2 is rejected, a COPEC in sediment may pose an unacceptable hazard for aquatic biota, as the findings indicate that survival, growth, or

reproduction may be adversely impacted by COPECs in sediment because they are bioavailable.

It should be noted that AVS-SEM results are used as a second line of evidence for describing sediment toxicity or the lack thereof, with the primary line of evidence coming from the toxicity test results themselves. AVS-SEM data are anticipated to assist in understanding the toxicity test results.

12.3.2 Decision Rules for Risk Questions to Assessment Endpoint No 2

Six measurement endpoints have been selected to assess the effects of sediment- and soil-derived COPECs on the survival, growth, and reproduction of birds and mammals at LHAAP, as presented in **Table 12-2**. It should be noted that some risk questions apply to either birds or mammals, but not both, because the exposure pathway may only be a concern for measurement receptors in one group or the other. Each measurement endpoint has an associated risk question and testable hypothesis from which specific decision rules can be derived, as follows.

Risk Question 2-1: Does the consumption, by birds, of COPEC concentrations in freshwater aquatic invertebrates, estimated using site-specific laboratory-based bioaccumulation tests, infer reduced survival, growth, or reproduction for birds at LHAAP?

Testable Hypothesis 2-1: EEQs calculated during the BERA using site-specific sediment-to-invertebrate uptake factors and food web models are below the threshold of concern for birds at LHAAP.

Decision Rule 1: If Testable Hypothesis 2-1 is accepted, COPECs in sediment pose an acceptable hazard for birds that consume sediment invertebrates.

Decision Rule 2: If Testable Hypothesis 2-1 is rejected, COPECs in sediment may pose an unacceptable hazard for birds that consume sediment invertebrates.

Risk Question 2-2: Does the consumption, by mammals, of COPEC concentrations in field-collected terrestrial plants infer reduced survival, growth, or reproduction for mammals at LHAAP?

Testable Hypothesis 2-2: EEQs calculated during the BERA using site-specific soil-to-plant uptake factors and food web models are below the threshold of concern for mammals at LHAAP.

Decision Rule 1: If Testable Hypothesis 2-2 is accepted, COPECs in soil pose an acceptable hazard for mammals that consume terrestrial plants.

Decision Rule 2: If Testable Hypothesis 2-2 is rejected, COPECs in the soil may pose an unacceptable hazard for mammals that consume terrestrial plants.

Risk Question 2-3: Does the consumption, by birds and mammals, of COPEC concentrations in laboratory-measured earthworms infer reduced survival, growth, or reproduction for birds and mammals at LHAAP?

Testable Hypothesis 2-3: EEQs calculated during the BERA using site-specific soil-to-earthworm uptake factors and food web models are below the threshold of concern for birds and mammals at LHAAP.

Decision Rule 1: If Testable Hypothesis 2-3 is accepted, COPECs in soil pose an acceptable hazard for birds and mammals that consume terrestrial invertebrates.

Decision Rule 2: If Testable Hypothesis 2-3 is rejected, COPECs in soil may pose an unacceptable hazard for birds and mammals that consume terrestrial invertebrates.

Risk Question 2-4: Does the consumption, by birds and mammals, of cumulative COPECs in diet, plus incidental surface water, soil, and sediment ingestion, infer reduced survival, growth, or reproduction for birds and mammals?

Testable Hypothesis 2-4: EEQs based on COPECs in diet, plus incidental surface water, soil, and sediment ingestion, are below the threshold of concern for birds and mammals at LHAAP.

Decision Rule 1: If Testable Hypothesis 2-4 is accepted, COPECs in site media pose an acceptable hazard for birds and mammals.

Decision Rule 2: If Testable Hypothesis 2-4 is rejected, COPECs in site media may pose an unacceptable hazard for birds and mammals.

It should be noted that Risk Question 2-4 is included as an assessment of cumulative hazard from all exposure pathways that are included in the revised food chain models, not just the COPEC dose from individual pathways (e.g., the ingestion of soil invertebrates, etc.).

Risk Question 2-5: Does the consumption, by birds and mammals, of trivalent chromium (Cr) and hexavalent Cr in diet, plus incidental soil ingestion, infer reduced survival, growth, or reproduction for birds and mammals?

Testable Hypothesis 2-5: EEQs based on trivalent Cr and hexavalent Cr in diet, plus incidental soil ingestion, are below the threshold of concern for birds and mammals, using results from site-specific Cr speciation soil sample results.

Decision Rule 1: If Testable Hypothesis 2-5 is accepted, trivalent Cr and hexavalent Cr in site soil pose an acceptable hazard for birds and mammals.

Decision Rule 2: If Testable Hypothesis 2-5 is rejected, trivalent Cr or hexavalent Cr in site soil may pose an unacceptable hazard for birds and mammals.

Risk Question 2-6: Does the consumption, by small mammals, of COPECs in diet, plus incidental soil ingestion, infer reduced reproduction for mammals at LHAAP?

Testable Hypothesis 2-6: Established biologically significant Rodent Sperm Analysis (RSA) thresholds for effect (i.e., for reproductive capability) are not exceeded.

Decision Rule 1: If Testable Hypothesis 2-6 is accepted, COPECs in site soil pose an acceptable hazard for mammals.

Decision Rule 2: If Testable Hypothesis 2-6 is rejected, COPECs in site soil may pose an unacceptable hazard for mammals.

12.3.3 Decision Rules for Risk Questions to Assessment Endpoint No 3

Assessment Endpoint No. 3 (Protection of terrestrial plant and invertebrate populations (base-of-the-food-chain receptors) is presented at the request of stakeholders; however, it has been agreed to by all parties that no Installation cleanup for the protection of base-of-the-food-chain receptors is necessary. Therefore, no measurement endpoints, risk questions, or testable hypotheses are proposed.

12.4 Work Plans and Sampling and Analysis Plans

This section presents a summary of work plans and SAPs that were prepared to collect site-specific field data to be used in the BERA.

12.4.1 Summary of Chromium Speciation Work Plan

Soil Sampling for Chromium Speciation in Soil (Shaw, 2006c) was prepared to determine existing Cr speciation (e.g., chromium VI [Cr^{VI}] and chromium III [Cr^{III}]) in soil at possible chromate source areas and non-chromate source areas at LHAAP. This information is used to refine the evaluation of Cr in soil in the BERA. Cr^{III} concentrations were estimated by subtracting Cr^{VI} concentrations from total Cr concentrations measured in individual soil samples.

A spatial analysis was performed by identifying all possible Cr^{VI} source areas at LHAAP, based on a detailed review of operational history. The locations of 14 identified buildings suspected of being possible Cr^{VI} source areas, due to chromate use or release, were plotted to show the proximity of these possible source areas relative to the locations of elevated detections of total Cr

in soil samples previously collected at the Installation (Shaw, 2006c). Based on this information, three areas were found where elevated concentrations of total Cr in soil were close to a possible Cr^{VI} source area, and these areas were recommended in the Work Plan (Shaw, 2006c and Figures 1-1 and 1-2 in Shaw, 2006c) for the collection of nine samples and Cr speciation. An additional nine samples were recommended for collection at areas not known to be related to CR^{VI} source areas.

12.4.2 Summary of BERA Work Plan

The LHAAP Field Sampling Work Plan (Shaw, 2006b) presented the approach for the further investigation of the chemicals identified as final COPECs at LHAAP following Step 3 of the 8-Step ERA process. The primary objectives of the BERA work plan were to collect site-specific data related to the uptake of final COPECs to plants, earthworms, and aquatic invertebrates that are prey items for various ecological receptors, establish a determination of toxicity to benthic invertebrates from final COPECs in sediment, and determine sediment COPEC bioavailability. To accomplish these objectives, the work plan proposed the collection of soil samples from the Industrial and Waste sub-areas, and sediment samples from the Goose Prairie Creek watershed and Cove area of Caddo Lake. Sample locations were selected using historical data to ensure that areas of suspected contamination were represented and to try to ensure that field study results would be based on a range of final COPEC concentrations. Co-located soil and plant tissue samples were proposed for both the Industrial and Waste sub-areas to determine the degree of uptake of final COPECs from soil into plants that may be ingested by herbivorous ecological receptors. Uptake into earthworms and aquatic invertebrates from soil and sediment final COPECs, respectively, was determined by introducing the organisms into the collected soil or sediment samples in a laboratory, and then measuring the tissue concentrations following a 28-day exposure period. A determination of the toxicity of final COPECs to benthic invertebrates was achieved by evaluating survival and growth of the amphipod *Hyalella azteca* following a 10-day laboratory exposure to sediment samples collected from LHAAP. Sediment COPEC bioavailability was determined using the AVS-SEM analytical technique.

12.4.3 Summary of Rodent Sperm Analysis Work Plan

The Rodent Sperm Analysis Study Statement of Work was prepared by USACHPPM (2003) to describe the application of the RSA field technique at LHAAP. The results of the study were intended to be used to supplement the Installation-wide ERA. RSA is a patent-pending method designed to bring ERAs at sites such as LHAAP to closure by providing as definitive a determination of receptor health as is possible at the present time. RSA is a sensitive testing procedure that borrows from established methods that are applied daily in research and clinical laboratory settings. In short, sperm parameters (such as sperm count) in field-collected rodents are assessed because they are barometers of reproductive success (the preferred toxicological

endpoint in ERAs). It is known that exposure to a number of chemical classes including dioxins, PCBs, pesticides such as DDT, DDE, and DDD, and certain metals can affect functional reproductive development (Gray et al., 1992). Many of these environmental contaminants are present at Plant 2. It has also been known that exposure to very low doses of dioxins produces infertility in rodent progeny (USACHPPM, 2006).

For the RSA at LHAAP, three study sites with known or suspected contamination, located in the north-central portion of the Industrial Sub-Area, were selected. These sites were the Plant 2 Area, a Wetland Area, and the Goose Prairie Creek Drainage. The field-applied RSA proposed trapping 15 adult male rodents of at least one species at both a study site and its matched reference location. Capturing sufficient adult male rodents was proposed by saturating a series of 100 meter by 100 meter grids with baited Sherman live traps. Established biologically significant (as opposed to statistically significant) sperm parameter thresholds for effect (i.e., each a barometer of reproductive success) were to be used in comparing the sperm of adult male rodents captured on site and at a nearby matched reference location.

Table 12-1
Summary of BERA Assessment and Measurement Endpoints

Table 12-2
BERA Assessment and Measurement Endpoints: Risk Questions and Testable Hypotheses

Table 12-1
Summary of BERA Assessment and Measurement Endpoints

Proposed Assessment Endpoints	Step 3 Receptors (Surrogate Species)	Step 3 Measurement Endpoints (Results)	BERA Measurement Endpoints Based on Site-Specific Field Work	BERA Measurement Endpoint Details for Site-Specific Bioaccumulation Approach
AE-1: Survival, growth, or reproduction of aquatic biota living in sediment	Freshwater sediment invertebrates-chironomids, amphipods (aquatic biota)	Comparison of site COPEC data to SQB	• Laboratory sediment invertebrate toxicity tests (freshwater amphipods) • Acid Volatile Sulfides - Simultaneously Extracted Metals (AVS - SEM) test to assess bioavailability	No bioaccumulation approach needed for this assessment endpoint.
AE-2: Survival, growth, and reproduction of birds and mammals	• American woodcock (-) • Deer mouse (-) • Short-tailed shrew (-) • Raccoon (-) • Louisiana Black Bear (Raccoon) • Rafinesque's Big Eared Bat (Townsend's Big Eared Bat)	• Intake/food-chain model EEQ estimation with generic bioaccumulation factors and total chromium assumed to be hexavalent chromium (some EEQs >1)	• Intake/food-chain model EEQ with site-specific bioaccumulation factors • Intake/food-chain model EEQ with site-specific chromium speciation data • Reproduction of mammals assessed using results of rodent sperm analysis technique	• Plant bioaccumulation estimated using co-located soil and plant samples • Sediment invertebrate bioaccumulation estimated using laboratory bioaccumulation study (freshwater aquatic worms) • Soil invertebrate bioaccumulation estimated using laboratory bioaccumulation study (earthworms)
AE-3: Protection of terrestrial plant and invertebrate populations (base of the food chain receptors)	Terrestrial plant and invertebrate communities	Comparison of site COPEC data to plant and invertebrate direct-contact toxicity benchmarks	None	No bioaccumulation approach needed for this assessment endpoint

Notes and Abbreviations:

For details regarding USEPA Step 4 Measurement Endpoints-measures of effect and exposure, USEPA Step 3b Risk Questions, and USEPA Step 4 Testable Hypotheses, please see Table 12-2.
AE-3 is presented as requested by stakeholders, however, it has been agreed that no Installation cleanup for the protection of base of the food chain receptors is necessary.

AE *assessment endpoint*
BERA *baseline ecological risk assessment*
COPEC *chemical of potential ecological concern*
EEQ *ecological effects quotient*
SQB *sediment quality benchmark*
USEPA *U.S. Environmental Protection Agency*

(-) denotes no surrogate species necessary, as the selected receptor has the minimum data requirements for quantification of the assessment and measurement endpoints

Table 12-2
BERA Assessment and Measurement Endpoints: Risk Questions and Testable Hypotheses

USEPA Step 3: Assessment Endpoint	USEPA Step 4: Measurement Endpoint—Measures of Effect and Exposure	USEPA Step 3b: Risk Questions USEPA Step 4: Testable Hypotheses
AE-1: Survival, growth, or reproduction of aquatic biota living in sediment	ME 1-1: Laboratory survival, growth, or reproduction of sediment-dwelling freshwater invertebrates (*Hyalella azteca*) in samples of site and reference location sediment (note: reference location upstream or in non-LHAAP impacted area of Caddo Lake)	ME 1-1 Risk Question: Does exposure to site sediment cause reduced survival, growth, or reproduction for invertebrates in sediment? ME-1-1 Testable Hypothesis: Means of laboratory survival, growth, or reproduction for invertebrates in site and reference location or control sediment are not significantly different. Note: Mean survival of the laboratory control for test species must equal or exceed 80 percent for results to be considered valid.
	ME 1-2: Acid Volatile Sulfides - Simultaneously Extracted Metals (AVS - SEM) data from sediment samples collected from the site and calculation of AVS – SEM ratio to assess bioavailability	ME 1-2 Risk Question: Are metal COPECs bioavailable such that exposure to site sediment causes reduced survival, growth, or reproduction for invertebrates in sediment? ME 1-2 Testable Hypothesis: Most of the AVS – SEM ratios in the samples (e.g., > 50%) are greater than 1 (i.e., SEM – AVS < 0), suggesting low bioavailability of metals.
AE-2: Survival, growth, and reproduction of birds and mammals	ME 2-1: Survival, growth, and reproduction of birds represented by the bank swallow and belted kingfisher based on consumption of sediment-dwelling aquatic invertebrates containing COPEC concentrations modeled from sediment-to-invertebrate relationship for COPECs for laboratory-measured concentrations of COPECs in samples of aquatic worms (*Lumbriculus variegatus*) and sediment from the site	ME 2-1 Risk Question: Does the consumption of COPEC concentrations in laboratory-measured freshwater aquatic worms by birds infer reduced survival, growth, or reproduction for birds? ME 2-1 Testable Hypothesis: EEQs are below the risk thresholds for birds.
	ME 2-2: Survival, growth, and reproduction of mammals represented by the deer mouse, Townsend's big-eared bat, and raccoon based on consumption of plants containing COPEC concentrations modeled from soil-to-plant relationship for COPECs for measured concentrations of COPECs in co-located field samples of plants and soil from the site	ME 2-2 Risk Question: Does the consumption of COPEC concentrations in field-collected plants by mammals infer reduced survival, growth, or reproduction for mammals? ME 2-2 Testable Hypothesis: EEQs are below the risk thresholds for mammals.

Table 12-2 (*continued*)
BERA Assessment and Measurement Endpoints:
Risk Questions and Testable Hypotheses

USEPA Step 3: Assessment Endpoint	USEPA Step 4: Measurement Endpoint—Measures of Effect and Exposure	USEPA Step 3b: Risk Questions USEPA Step 4: Testable Hypotheses
AE-2 (*continued*): Survival, growth, and reproduction of birds and mammals	ME 2-3: Survival, growth, and reproduction of birds and mammals represented by the American woodcock and short-tailed shrew based on consumption of soil earthworms containing COPEC concentrations modeled from soil-to-invertebrate relationship for COPECs for laboratory-measured concentrations of COPECs in samples of earthworms (*Eisenia fetida*) and soil from the site	ME 2-3 Risk Question: Does the consumption of COPEC concentrations in laboratory-measured earthworms by birds and mammals infer reduced survival, growth, or reproduction for birds and mammals? ME 2-3 Testable Hypothesis: EEQs are below the risk thresholds for birds and mammals.
	ME 2-4: Survival, growth, and reproduction of birds and mammals represented by the American woodcock, deer mouse, short-tailed shrew, bank swallow, belted kingfisher, Townsend's big-eared bat, and raccoon based on consumption of COPECs in diet, plus incidental surface water, soil, and sediment ingestion	ME 2-4 Risk Question: Does the consumption of COPECs in diet, plus incidental surface water, soil, and sediment ingestion, by birds and mammals infer reduced survival, growth, or reproduction for birds and mammals? ME 2-4 Testable Hypothesis: EEQs based on COPECs in diet, plus incidental surface water, soil, and sediment ingestion, are below risk thresholds for birds and mammals, as represented by the 95 percent UCL of the mean concentrations of COPECs in dietary items and the 95 percent UCL of the mean media concentrations.
	ME 2-5: Survival, growth, and reproduction of birds and mammals represented by the BERA receptors based on consumption of chromium in diet, plus incidental soil ingestion	ME 2-4 Risk Question: Does the consumption of trivalent chromium or hexavalent chromium in diet, plus incidental soil ingestion, by birds and mammals infer reduced survival, growth, or reproduction for birds and mammals? ME 2-4 Testable Hypothesis: EEQs based on trivalent chromium and hexavalent chromium in diet, plus incidental soil ingestion, are below risk thresholds for birds and mammals, as represented by the 95 percent UCL of the mean concentrations of trivalent chromium and hexavalent chromium in dietary items and the 95 percent UCL of the mean soil concentrations, using results from site-specific chromium speciation soil sample results.
	ME 2-6: Reproduction of mammals represented by the Hispid cotton rat based on results of the rodent sperm analysis (RSA) field technique	ME 2-6 Risk Question: Does the consumption of COPECs in diet, plus incidental soil ingestion, by small mammals infer reduced reproduction for mammals? ME 2-6 Testable Hypothesis: Established RSA sperm parameter thresholds for effect are not exceeded.

Table 12-2 (*continued*)
BERA Assessment and Measurement Endpoints:
Risk Questions and Testable Hypotheses

USEPA Step 3: Assessment Endpoint	USEPA Step 4: Measurement Endpoint—Measures of Effect and Exposure	USEPA Step 3b: Risk Questions USEPA Step 4: Testable Hypotheses
AE-3: Protection of terrestrial plant and invertebrate populations (base of the food chain receptors)	None proposed	None proposed

Notes and Abbreviations

AE *assessment endpoint*
COPEC *chemical of potential ecological concern*
EEQ *ecological effects quotient*
LOAEL *lowest-observed-adverse-effect level*
ME *measurement endpoint*
NOAEL *no-observed-adverse-effect level*
SQB *sediment quality benchmark*
UCL *upper confidence level*
USEPA *U.S. Environmental Protection Agency*

13.0 Step 5: Field Verification of Sampling Design

Verification of the field sampling design is Step 5 of the eight-step ERA process (USEPA, 1997a). However, due to the numerous site visits that have occurred at LHAAP over the past several years, an additional site visit to verify the field sampling design was not necessary. Minor changes to the field program were made in the field, as discussed in **Section 14.2**.

14.0 Step 6: Site Investigation

Section 14.0 presents the results of the site investigation.

14.1 Chromium Speciation Data Collection and Analysis

Soil samples for Cr speciation were targeted for collection at three possible chromate source areas, as well as at an equal number of non-source areas. This approach allowed a comparison of the Cr ratios (i.e., ratio of Cr^{III} to Cr^{VI}) between possible Cr^{VI} source areas and non-source areas. Based on the soil sampling scheme (Shaw, 2006c), the following null hypothesis (H_0) was formulated:

- H_0: The Cr ratio is statistically similar between soil samples collected at possible Cr^{VI} source areas and in soil samples collected at areas not suspected of being Cr^{VI} source areas

If H_0 is accepted then an average Cr ratio would be calculated and used for the BERA.

If the result of an appropriate statistical test is less than $P_{0.05}$ (i.e., a statistical difference does exist) then the H_0 will be rejected and the alternative hypothesis (H_1) will be accepted, which can be stated as follows:

- H_1: The Cr ratio is not statistically similar between soil samples collected at possible Cr^{VI} source areas and at soil samples collected at areas not suspected of being Cr^{VI} source areas

If H_1 is accepted then two separate Cr ratios would be calculated and used for the BERA.

To determine the Cr speciation in soil at the site, Shaw collected surface soil samples in each of the three areas of possible chromate soil contamination (Buildings B-16, 68-C, and 24-X) (**Figures 14-1** and **14-2**) on April 25, 2006 for a total of eight samples from possible chromate source areas. It should be noted that one soil sample (ERA-SS-05) could not be collected due to the presence of pavement. An additional nine surface soil samples were also collected on April 25, 2006 from other areas of the site not suspected of being possible chromate source areas, but that had elevated total Cr detections in the past. Each of the surface soil samples was collected from 0 to 1 foot depth bgs. Soil samples were analyzed for total Cr and Cr^{VI} using EPA Methods 6010B and 3060/7196A, respectively. Data are presented in **Appendix L**.

Cr speciation results are summarized in **Table 14-1**. Total Cr collected at possible chromate source areas ranged from 11.3 to 69.8 mg/kg and averaged 35.2 mg/kg, while Cr^{VI} ranged from non-detect to 0.59 mg/kg. Total Cr collected at non-chromate source areas ranged from 10.8 to

70.6 mg/kg and averaged 34.8 mg/kg, while Cr^{VI} was not detected in any sample. Cr^{III} was estimated by subtracting Cr^{VI} from total Cr results.

The Cr^{III} to Cr^{VI} ratio was estimated for each sample by dividing Cr^{III} by Cr^{VI}. The Cr^{III} to Cr^{VI} ratio at possible chromate source areas ranged from 19.3 to 145 and averaged 74, while the Cr^{III} to Cr^{VI} ratio at non-chromate source areas ranged from 17.9 to 126 and averaged 67. There was considerable overlap between the 95 percent confidence intervals for the Cr^{III} to Cr^{VI} ratios for the two areas, as shown in **Figure 14-3**, and there was no significant difference between the two ratios (t-test, $p > 0.05$).

As there was no significant difference in the Cr ratios between the possible Cr^{VI} source areas and the other areas, it was concluded that there is no reason to establish a separate Cr^{III} to Cr^{VI} ratio at the possible chromate source areas. Thus, the soil sample results from all sampled locations were combined, and an average site-specific Cr ratio of 70:1 was calculated for LHAAP and is used in the BERA for all total Cr soil data. This Cr^{III} to Cr^{VI} ratio is considerably greater than the 6:1 ratio commonly recommended by regulatory guidance as a default assumption for risk assessments; however, because approximately half of the samples used to develop this ratio were purposefully located near suspected Cr^{VI} source areas, this ratio is expected to be a conservative estimate of the ratio across the Installation as a whole. By replacing the 6:1 ratio assumption with the 70:1 ratio based on site-specific data, it is assumed that concentrations of Cr^{VI} in soil at LHAAP are approximately 1.4 percent of the total Cr concentrations.

In conclusion, the site-specific determination of Cr speciation in LHAAP soil samples substantially reduced the initial conservative estimate of Cr^{VI} assumed to be present. Even though several areas of chromate use have been documented at the site, Cr^{VI} was found to be present at very low concentrations, likely due to environmental transformation and degradation over time. Use of the site-specific Cr^{III} to Cr^{VI} ratio of 70:1, compared with the conservative default assumption of 6:1, reduces the previously estimated concentrations of Cr^{VI} by approximately 10-fold in LHAAP soil.

14.2 BERA Data Collection and Analysis

Collection of field data for the LHAAP BERA took place October 3 to 6, 2006. The field work was conducted in accordance with the *Final Baseline Ecological Risk Assessment Field Sampling Work Plan* (Shaw, 2006b). A few deviations from the Work Plan occurred during field sample collection, summarized as follows:

- One proposed soil sample location in the LHAAP-04 area (STEP-04SS06-BERA-SS05) was relocated to LHS-MW50-BERA-SS05 (south of LHAAP-47) because it was noted by USFWS personnel during the field event that the sample location had been the site of a pilot perchlorate bioremediation study, and therefore was not an appropriate BERA sample location.

- All proposed sediment sample locations were dry except for the background reference location in Clinton Lake due to the pervasive drought conditions that occurred before and during the field sampling. After consultation with USFWS, it was decided to collect sediment samples as planned and have the bioassay laboratory re-hydrate the sediments in the lab. It should be clarified that here and in the rest of the BERA, the term "dry" sediment samples refers to the fact that the samples were not covered by water at the time of collection; however, the sediment samples themselves ranged from moist to saturated.

- A total of twelve sediment samples (six from Goose Prairie Creek watershed, and six from Goose Prairie Creek Cove in Caddo Lake) were sent to the laboratory for rapid turnaround chemical analyses for metals. As described in the Work Plan (Shaw, 2006b), a subset of samples to use for the BERA uptake factor and toxicity tests was selected based on the detected concentrations of metal final COPECs. This approach was used to obtain a range of concentrations for each metal to maximize information that could be used to determine uptake and toxicity. Based on the rapid turnaround analytical results, five sediment samples were selected from the north and south Goose Prairie Creek Cove of Caddo Lake and three sediment samples were selected from the Goose Prairie Creek watershed. This represents a slight deviation from the work plan, which indicated that four samples would be collected from the Coves and four would be collected from the Goose Prairie Creek watershed.

- Historic LHAAP Goose Prairie Creek Watershed and Caddo Lake surface water data were used to determine the hardness of the water used by the bioassay laboratory to run the sediment toxicity and bioaccumulation tests because surface water was not present at most sample locations during the field event, which prohibited a determination of water hardness conditions from field samples. Historic data indicated the following: (1) an average water hardness of 31 mg/L for the general Goose Prairie Creek Cove sediment sample area from 1998 through 2006 (Darville, 2006); and (2) an average water hardness of 47 mg/L for the Goose Prairie Creek sediment sample areas. A hardness of 19 mg/L was indicated for the Clinton Lake background reference sample, based on a combination of current site-specific data and historic data.

- When the bioassay laboratory (see **Appendix N**) originally rehydrated the eight selected sediment samples, the overlying water was found to have an unexpectedly low pH (i.e., a range of approximately 3.5 to 4.1 for the cove sediment samples and a pH range of approximately 5.4 to 5.8 for the Goose Prairie Creek stream sediment samples, excluding background). These low pH conditions are thought to be related to the unusual drought conditions (Warren et. al., 2001; Van Haesebroeck et al, 1997; and Clark et al., 2005). In addition, the concentrations of sulfate in the sediment, which is thought to be naturally-occurring, were inversely correlated with the overlying water pH, suggesting that sulfates were responsible for the low pH conditions. Because the optimal pH range for the bioassay toxicity test organism (*Hyalella*) is 6 to 9, the bioassay laboratory performed overlying water changeouts as stipulated by the test method (ASTM, 2000; USEPA, 2000b) to obtain an overlying water pH of at least 6 prior to initiating the test. Water changeouts were conducted

twice per day for two days for both the stream and cove sediment samples. The overlying water, however, became more acidic over time, dropping below a pH of 6 for some sediment samples during the toxicity tests. As this low pH condition would be expected to result in test organism toxicity, the lake sediment toxicity tests were re-initiated using water with a hardness of 88 mg/L. This hardness is the standard hardness the bioassay laboratory typically uses for freshwater tests and represents the optimal hardness preference for the *Hyalella* organisms. This harder water was expected to buffer the pH such that overlying water remained above a pH of 6. The original toxicity tests, however, were completed for informational purposes to estimate potential toxicity due to low pH using water that matched the site-specific hardness values. It should be noted that monitoring data from Caddo Lake (1998 to 2005) shows typical surface water pH that ranges from approximately 6 to 7 (Darville, 2006). Although the adjusted water hardness used in the *Hyalella* sediment toxicity test was not identical to the field conditions (i.e., the adjusted water hardness was higher than the estimated field conditions due to an adjustment necessary to account for the unique drought conditions during the BERA field work), the toxicity test results have utility for this assessment.

Hyalella survival rates in control samples from the original toxicity tests for the creek sediment samples were acceptable (> 80 percent), but high mortality was experienced by all test organisms in the lake sediment samples. Therefore, the results from toxicity tests with the adjusted overlying water hardness were used for the lake sediment samples, but the unadjusted overlying water hardness results were used for the creek sediment samples. A discussed in **Section 15.8.1**, the use of harder water for the lake sample toxicity tests may have resulted in lower toxicity than would be expected under natural conditions, but the presence of AVS that would be expected under normal (i.e. non-drought) conditions would likely offset this higher toxicity to some extent, if not completely.

- The test organism used for the sediment bioaccumulation test was *Lumbriculus*, which tends to be more tolerant of lower pH conditions than *Hyalella*. Also, because the water-to-sediment ratio used in these tests is greater than in the toxicity tests, it was not expected that acidification of the overlying water by the low-pH sediment would occur, as it did in the toxicity tests. Therefore, the bioaccumulation tests were run using water renewal conditions that matched the site-specific hardness of ambient soft waters so that conditions affecting metals bioavailability conditions were replicated as much as possible.

Site-specific terrestrial (i.e., soil-to-earthworm and soil-to-plant) and aquatic (i.e., sediment-to-invertebrate) uptake factors were developed from the collected data to quantify transport of chemicals from site media to biotic organisms that may be ingested as prey or forage items by BERA ecological receptors. If the data were adequate for the development of site-specific uptake factors, they were used in place of literature values used for the Tier 1 food chain modeling exercise (**Section 7.2, Volume I**) to develop new EEQs. **Table 14-2** presents the list

of samples that were collected as part of the BERA investigation. All data were validated prior to use.

Concentrations of final COPECs in the co-located abiotic and biotic samples were compared, and a simple ratio consisting of the tissue concentration divided by the abiotic medium concentration was developed for each sample location. If the final COPEC was detected in one medium (e.g., soil) but not the other (e.g., earthworm tissue), the concentration in the non-detect result was estimated as being equal to one-half the MDL. Ratios were not developed for sample pairs where both the tissue and abiotic samples were non-detect. The arithmetic mean of all sample location ratios for a given chemical was then calculated as a candidate for use as a site-specific BAF.

Single-value uptake factors assume that the concentration of chemicals in organisms is a linear, non-threshold function of concentrations in abiotic media. However, for chemicals that are regulated or metabolized by the organism, the degree of uptake (and retention) in an organism may vary depending on the concentration in the abiotic medium. Also, threshold concentrations may exist below which bioaccumulation does not occur (Sample et al., 1999). Simple linear regression models that may account for some of these factors were developed for final COPECs if the dataset was considered sufficiently robust, based on professional judgment. Regression equations were developed using natural log-transformed data. The tissue concentration was assigned as the response (i.e., dependent) variable, and the abiotic concentration was assigned as the explanatory (i.e., independent) variable. A best-fit linear regression equation was generated and plotted. Both terrestrial (i.e., soil-earthworm and soil-plant) datasets had a sample size (n) of 10. Significance of the model was determined using two criteria. First, overall model significance was determined by the statistical significance of the model's F factor. The null hypothesis for this test is that the slope of the model is not significantly different from zero. If the F factor was significant at a $P_{0.05}$ level (i.e., $p < 0.05$), then the alternative hypothesis, that the slope is significantly different from zero, was adopted. Second, the amount of variability the model accounted for (i.e., the strength of the model's ability to predict the tissue concentration from the soil or sediment concentration), as reflected by the coefficient of determination (R^2), was tested for significance. The threshold of significance ($P_{0.05}$) for a dataset depends on the degree of freedom, which is calculated as sample size (n) minus 2 for linear regression models. For the soil dataset, which had a sample size of 10, the threshold of significance with 8 (i.e., 10 minus 2) degrees of freedom is an R^2 value of 0.399 or higher (Steel and Torrie, 1980). For the aquatic dataset, which had a sample size of 8, the threshold of significance with 6 (i.e., 8 minus 2) degrees of freedom is an R^2 value of 0.500 or higher. Regression equations that met these two criteria (i.e., the overall model significance and the acceptability of the R^2 value) were considered as candidates for use as uptake factor, in place of single-point uptake values. Use of these two criteria is based on the regression uptake approach employed by USEPA (2005)

(Attachment 4-1 *Exposure Factors and Bioaccumulation Models for Determination of Wildlife Eco-SSLs*). All data analyses were performed using Microsoft Excel® software.

Discussions regarding the data evaluation and use for various media and exposure pathways are presented in the sections that follow. Further discussions and final selection of BAFs used in the BERA for final COPECs are provided in **Section 14.2.4**. The analytical data used to develop site-specific uptake factors are presented in **Appendix M**. Complete data results for all samples collected during the BERA field investigation are presented in **Exhibit 1, Data Report** (Compact Disk 2).

14.2.1 Soil to Earthworm Bioaccumulation – Data Collection and Analysis

Five metal (barium, cadmium, Cr, lead, and zinc) and three explosive (2,4-DNT, 2,6-DNT, and TNT) final COPECs were selected for refinement for the soil-to-earthworm pathway in the BERA (**Table 11-1, Volume I**). Ten soil/tissue sample pairs were used to develop site-specific uptake factors in earthworms (five from the Industrial Sub-Area and five from the Waste Sub-Area) for the metal final COPECs, and five soil/tissue sample pairs (all from the Waste Sub-Area) were used to develop site specific soil-to-earthworm uptake factors for the explosives final COPECs (**Table 14-2**).

The uptake factor ratios for the individual sampling locations and the arithmetic mean of the ratio, are presented in **Table 14-3** and **14-4** for metals and explosives, respectively. For metals, all ratios were based on detected concentrations in both the tissue and the soil. However, for Cr, all tissue concentrations were B-qualified, indicating that the tissue concentration was not distinctively different from the blank concentration, using the 5-times rule invoked in data validation. Therefore, there is some question as to whether any bioaccumulation of Cr is taking place in soil invertebrates. However, as a conservative approach, uptake factors were calculated using the B-qualified data without adjustment (i.e., the samples were treated as detections, rather than as non-detects). For explosives, only one tissue sample had a detection of any of the three final COPECs (TNT at location 17SB02-BERA-SS09). Seven other tissue/soil sample pairs had detects in soil, but not for tissue. For these non-detect tissue samples, the MDL for tissue was comparable to that for soil, and the use of one-half the MDL as a surrogate concentration in tissue was considered appropriate for these sample pairs.

Only the metal bio-uptake data were considered robust enough for regression analysis (n = 10). The datasets for barium, cadmium, and lead resulted in significant regression equations using the criteria described previously (**Table 14-5**). The full results of the statistical regression analysis are presented in **Appendix M**.

14.2.2 Soil to Plant Bioaccumulation - Data Collection and Analysis

One metal (barium), perchlorate, and three explosives (2,4-DNT, 2,6-DNT, and TNT) were selected for refinement in the soil-to-plant pathway in the BERA (**Table 11-1, Volume I)**. Ten soil/tissue sample pairs were used to develop site-specific uptake factors in plants (five from the Industrial Sub-Area and five from the Waste Sub-Area) for the metal final COPECs, and five soil/tissue sample pairs (all from the Waste Sub-Area) were used to develop site specific soil-to-plant uptake factors for the explosives final COPECs (**Table 14-2**). Five soil/tissue sample pairs from the Industrial Sub-Area were also used to evaluate perchlorate, which was considered a final COPEC due to uncertainty regarding its toxicity and uptake properties in plants.

The uptake factor ratios for the individual sampling locations, and the arithmetic mean of the ratios, are presented in **Tables 14-6** and **14-7** for metals and explosives, respectively. For metals, all ratios were based on detected concentrations in both the tissue and soil. For lead, two tissue concentrations were B-qualified, indicating that the tissue concentration was not distinctively different from the blank concentration, using the 5-times rule. As a conservative approach, uptake factors were calculated using the B-qualified data without adjustment. For explosives, only one tissue sample had a detection of any of the three final COPECs (2,4-DNT at location 17SD07-BERA-SS06). Seven other tissue/soil sample pairs had detects in soil, but not for tissue. However, for these sample pairs that had non-detect concentrations in tissue, all soil concentrations were low (J-qualified), and the tissue MDL was highly elevated compared with the detected soil concentrations. In some cases (e.g., location 17SD07 for 2,6-DNT, and 17SD07 and 17SB04 for TNT), the MDL was one-and-a-half to two orders of magnitude greater than the soil concentration. Because the MDL is used in the numerator for sample pair BAF ratio calculations, this results in elevated BAF ratios that are driven by the MDL rather than by actual (i.e., detected) tissue concentrations. Therefore, the soil-to-plant uptake factors for explosives are considered highly uncertain. The implications of this finding are discussed further in **Section 14.2.4**.

For perchlorate, only one tissue/soil sample pair had a detected concentration of perchlorate. Perchlorate was detected in the leaves of a slippery elm (*Ulmus rubra*) tree at location 25C-56 at a concentration of 189 mg/kg. It was detected in the co-located 2006 soil sample (0 to 0.5 foot depth) at an estimated concentration of 0.0132 mg/kg, which would result in an uptake factor of 14,318. Historical surface soil (0 to 0.5 foot depth; sample 25C-56[1]) and deeper surface soil (1 to 2 foot depth; sample 25C-56[2]) samples collected in 1999 from this location had perchlorate concentrations of 1.8 and 39 mg/kg, respectively. One of perchlorate's trademark characteristics from a fate-and-transport perspective is its extremely high solubility in water. The fact that concentrations were greater in the historical sample collected from a depth of 1 to 2 feet compared with the 0-0.5 foot sample, and the fact that the shallow soil sample collected 7 years ago was more than two orders of magnitude greater than the (2006) BERA soil sample,

suggest that perchlorate is being transported vertically downward as the result of percolation of rain water. Because of the somewhat transient nature of perchlorate in surface soil, a soil-to-plant uptake factor based on the shallow BERA soil sample would be biased high, because the very low concentration in that sample does not reflect the soil concentrations that resulted in the transport and retention in the tree plant leaves over time. Furthermore, perchlorate was measured in the leaves of trees because indirect ingestion of tree leaves by bats (via ingestion of moths, whose larvae are assumed to eat exclusively tree leaves) was assumed to be the pathway of greatest ecological concern for this chemical (Shaw, 2006b). Tree roots can extend many feet underground and concentrations of perchlorate at a depth of 0 to 0.5 feet probably do not reflect the concentration that is available for uptake by trees. If the historical soil sample (measured in 1999) from the 1 to 2 foot sampling interval is used in conjunction with the concentration detected in the BERA plant tissue sample, the resultant uptake factor is 4.8 (i.e., 189 mg/kg in plant tissue divided by 39 mg/kg in soil). This uptake factor is comparable to the uptake factor that was estimated using the regression equation specified in the Tier 1 modeling (see **Table 7-20** in **Volume I**), which was approximately 6.6 (based on the Industrial Sub-Area shallow soil EPC). Because of the small sample size (n = 1), and the likelihood that perchlorate in shallow surface soil is not highly correlated with concentrations in the co-located plant tissue due to vertical migration of the chemical and a spatial disconnect of the depths of the tree roots compared with the 2006 sampling depth, it was determined that the development of a site-specific uptake factor for perchlorate was not appropriate based on data collected during the BERA. Rather, the finding that an uptake factor calculated using the deeper historical soil data was considered as confirmatory of the accuracy of the regression equation that was used in the Tier 1 food chain model. Therefore, the Tier 1 soil-to-plant regression equation was selected to represent perchlorate uptake in the BERA.

Only the metal soil-to-plant bio-uptake data were considered robust enough for regression analysis (n = 10). However, the barium dataset did not result in a significant relationship between the concentration in soil and the concentration in plant tissue (Table 14-8, **Appendix M**). Therefore, the simple BAF based on BERA field data was used to estimate barium uptake by plants from soil.

14.2.3 Sediment to Aquatic Invertebrate Bioaccumulation - Data Collection and Analysis

Three metal final COPECs (lead, mercury, and thallium) were selected for refinement in the sediment-to-aquatic invertebrate pathway in the BERA (**Table 11-2**, **Volume I**). Eight sediment/tissue sample pairs were used to develop site-specific uptake factors for aquatic invertebrates. Three samples were collected in the Goose Prairie Creek watershed, and five were collected in the Goose Prairie Creek Cove area of Caddo Lake. Results for the watershed and lake locations were pooled for the purpose of developing uptake factors for the Installation as a whole.

The metal uptake factor ratios for the individual sampling locations, and the arithmetic mean of the ratios, are presented in **Table 14-9**. For lead, all ratios were based on detected concentrations in both the tissue and the sediment. All lead tissue concentrations were flagged with the validation qualifier JH, meaning the concentration is possibly biased high. Using high-biased tissue concentrations results in a conservative uptake factor ratio, because the concentration detected in the tissue (which appears in the numerator of the ratio) is likely to be higher than reported. For mercury, six of the eight ratios were based on detections in both tissue and sediment, but two sample pairs had non-detects in the tissue. One-half of the MDL was used as a surrogate for tissue concentrations in these two samples. For thallium, all tissue samples were non-detect. Therefore, there is some question as to whether any bioaccumulation of thallium is taking place in aquatic invertebrates. However, the maximum thallium concentration detected in the BERA sediment samples was 0.26 mg/kg, which is well below the MDC in the historical dataset for the Goose Prairie Creek watershed of 2.69 mg/kg (**Table 6-23, Volume I**). Thus, the degree of uptake associated with the upper range of historical concentrations is unknown. For purposes of the BERA it is assumed that thallium uptake is occurring, but to a relatively low degree that results in tissue concentrations below the detection limit of the method. For the non-detect tissue samples, the MDL for tissue was extremely elevated compared to the low (i.e., J-qualified) soil concentrations, which resulted in calculated BAF ratios ranging from 44 to 115. The elevated MDL was partly due to the relatively low percent solids of the aquatic worms, which decreased the ability of the analysis to detect concentrations in tissue. Therefore, little meaningful information can be obtained from the BERA data regarding aquatic invertebrate uptake of thallium. Due to this high degree of uncertainty, the BERA BAF data for thallium were not used, and the Tier 1 BAF (**Volume I**) was used instead.

The metal bio-uptake data for lead and mercury were considered robust enough for regression analysis (n = 8). A regression analysis was not conducted for thallium because all tissue samples were non-detect, and, therefore, the calculated uptake factors were simply a function of the MDL rather than the concentration in sediment. Only the lead analysis resulted in a significant regression equation (**Table 14-10**). Results of the statistical regression analysis are presented in **Appendix M**.

14.2.4 Summary of BERA BAFs

The BAFs that were selected to use in the BERA to model uptake from abiotic media into earthworms, plants, and aquatic invertebrates are presented in **Tables 14-11**, **14-12**, and **14-13**, respectively. These BAFs replaced the default literature-based BAFs used in the Step 3 food chain model (see **Section 7.2** in **Volume I**), and were used to calculate new EEQs for the BERA. Because of uncertainties associated with the data, site-specific BAFs for perchlorate and explosives for the soil-to-plant pathway, and the thallium sediment-to-aquatic invertebrate

pathway, were not adopted for use in the BERA, as previously discussed. The Tier 1 values that were previously used for these chemicals were carried forward for the BERA food chain model.

14.2.5 Sediment Toxicity - Data Collection and Analysis

Sediment sampling at the Installation was conducted by Shaw personnel from October 3 through 6, 2006. A total of 14 sediment samples were collected and placed in 4-liter wide-mouth plastic containers. The containers were labeled, packed on wet ice, and shipped by overnight delivery to Nautilus Environmental, Inc. (the bioassay laboratory). Split samples were sent to Severn Trent Laboratory for chemical analysis. Based on the rapid turnaround analytical metal results (see **Section 14.2**), five sediment samples were selected for toxicity testing from the north and south Goose Prairie Creek Cove of Caddo Lake and three sediment samples were selected from the Goose Prairie Creek watershed. In addition to these eight samples, reference samples from Clinton Lake and upstream on Goose Prairie Creek were also used for toxicity testing. Chemical analytical results are presented in the Data Report (**Exhibit 1)**.

H. azteca were exposed to test sediments for 10 days to determine the effects of site sediment on survival and growth. These tests were conducted according to methods presented in USEPA (2000b) and ASTM (2000). A complete report prepared by the bioassay laboratory (Nautilus Environmental, Inc.) is presented in **Appendix N**. Results of the toxicity tests conducted using *H. azteca* are provided in this appendix**,** including tables showing mean percent survival, mean growth, and results of the statistical analyses comparing responses in the sample locations to the responses in the laboratory control and reference sediments. Detailed results of the sediment toxicity tests, water quality measurements recorded during the tests, and the reference toxicant test results are provided in Attachments 1, 2 and 3, respectively, of **Appendix N**.

None of the Goose Prairie Creek sediment exhibited a statistically significant effect on amphipod survival compared to the laboratory control or reference sediment. The three creek sediments, as well as the reference sediment, had reduced growth compared to growth in the control sediment. However, none of the site sediment showed a statistically significant reduction in growth compared to the creek reference sediment.

One of the Goose Prairie Creek Cove (Caddo Lake) sediment samples, CL-GPSN-3-BERA-SD02, demonstrated reduced amphipod survival and growth compared to results of both the control and lake reference sediment samples, and also had a relative percent difference (RPD) in response greater than 20 percent. A RPD of 20 percent or greater is generally considered biologically significant (Suter et al., 2000). Another Goose Prairie Creek Cove (Caddo Lake) sediment sample, CL-GPSN-2-BERA-SD09, demonstrated a statistically significant reduction in growth compared to the control and reference sediment samples, but not in survival. In addition, the RPD was greater than 20 percent for growth. Growth in sediment sample CL-GPSS-3-

BERA-SD10 demonstrated a statistically significant reduction compared to the laboratory control sample, but not to the reference sediment sample.

Amphipod survival and growth are plotted against sediment COPEC concentrations in **Figures 14-4** and **14-5**, respectively. Sediment concentrations for lead, mercury, and silver are included in these two figures, as these three metals were identified as final COPECs for sediment due to concerns about direct toxicity to benthic vertebrates (**Table 11-2, Volume I**). As shown in **Figure 14-4**, amphipod survival is significantly lower in one sample location (CL-GPSN-3-BERA-SD02 in the Goose Prairie Creek Cove), and this location had the maximum concentration of lead (i.e., 352 mg/kg). Concentrations of the other two COPECs (mercury and silver) do not show corresponding maxima at this location. In addition, other locations with maximum concentrations of mercury and silver are not associated with reduced survival. These observations strongly suggest that these metals are not related to the observed sediment toxicity.

As shown in **Figure 14-5**, amphipod growth is significantly lower in two sample locations (CL-GPSN-3-BERA-SD02 and CL-GPSN-2-BERA-SD09 in the Goose Prairie Creek Cove), and at these locations the concentrations of lead are elevated (e.g., 352 and 246 mg/kg, respectively). Concentrations of the other two sediment COPECs (mercury and silver) do not show corresponding maxima at these locations. In addition, other locations with maximum concentrations of mercury and silver are not associated with reduced growth. These observations strongly suggest that these metals are not related to the observed sediment toxicity.

Based on this evaluation of sediment toxicity using site-specific test results, elevated concentrations of lead in the North Goose Prairie Creek Cove area of Caddo Lake appear to be related to the observed aquatic toxicity. It is important to note that North Cove samples were placed along a transect in the same locations of historical samples that exhibited elevated lead concentrations. This transect was directly in line with a duck blind located on the western shore of the cove. Therefore, it is possible that at least some of the lead in these samples could be from weathered lead shot deposited in the cove from past hunting events, rather than present as the result of previous on-site activities. To investigate this possibility further, concentrations of all metals detected in the BERA sediment samples from the North Goose Prairie Creek Cove area were sorted by their sample location. The three North Cove sediment sample locations CL-GPSN-2, -3, and -4 were approximately 190-, 150-, and 90-feet from the shore where the blind was located, respectively. Among the 18 metals that were detected at least once in these three samples, lead was the only metal that exhibited a maximum concentration at CL-GPSN-3. Interestingly, the distance of this sample location from the duck blind matches the typical range of shotguns of 50 yards (http:..www.answers.com/topic.shotgun). Although the range of a shotgun varies by the type of gun and shot that is used, the data suggest that the lead concentration pattern imitates the expected fallout distance of bird shot. It is acknowledged,

however, that other studies have identified an inverse relationship between overall lead concentrations in Caddo Lake and distance to the Installation (Shaw, 2004c).

14.2.6 Acid Volatile Sulfide Simultaneously Extracted Metals

In the Work Plan (Shaw, 2006b), the AVS-SEM analytical technique was proposed to evaluate the bioavailability of metal COPECs in sediment (**Sections 12.3.1** and **12.4.2**). However, AVS was found to be non-detect in all of the collected sediment samples (**Appendix M-2**). This finding is thought to be a direct result of the unusual drought conditions present during sediment sample collection. Studies by Van Griethuysen (2006) and Van Griethuysen et al. (2003) demonstrate that sediment AVS depletion and removal is caused by desiccation during periods of drought, and that it may take up to two to three months after conditions return to normal (i.e., saturated conditions) before sufficient AVS can be formed to bind SEM (i.e., metals such as lead). These studies also suggest that recruitment of benthic infauna may occur more quickly than AVS can be formed to bind with SEM. Therefore, for a short period of time, a window of potential toxicity may occur after the sediments are flooded and before AVS levels have returned to equilibrium.

This finding suggests that under normal saturated sediment conditions, levels of AVS are likely to be much greater at LHAAP than during the drought conditions present in the fall of 2006 when sampling was conducted for this BERA. Greater levels of AVS in sediment would be expected to result in much lower metals bioavailability, and therefore reduced sediment toxicity to sensitive benthic invertebrates. In other words, the sediment toxicity tests that were conducted for this BERA were conducted under "worst case" conditions with regard to the presence of AVS, and the observed toxicity in these tests are likely greater than the toxicity that would be expected under normal sediment conditions. The magnitude of toxicity reduction due to the presence of elevated AVS during normal (non-drought) conditions is not known, and this uncertainty is discussed further in **Section 15.7**.

14.3 Summary of RSA Data Collection and Analysis

Most of the information provided in this section related to the RSA Study is from USACHPPM (2006), which is presented in **Appendix P**. The RSA Work Plan and purpose of the study were previously discussed in **Section 12.4.3**.

Small rodent trapping occurred from January 12 to February 1, 2004 at LHAAP. Areas that were targeted included the Plant 2 Area, the associated Plant 2 Wetlands Area, the Goose Prairie Creek Drainage Area, and matched reference locations. **Figure 14-6** illustrates the locations of rodents with sperm that were trapped and used for the Study, while Figure D-1 in **Appendix D** shows the location of the matched reference location. The field work and data analysis were performed by USACHPPM with assistance from Shaw personnel. All trapped small rodents

were examined for overall health condition, identified to sex, species, and approximate age, and then weighed. All captures other than adult males had a small patch of fur at the back of the neck clipped so that recaptures could be identified. Only adult males were brought to the on-site mobile laboratory for additional weighing and work-up. The analytical procedures for the sperm parameters followed Tannenbaum et al. (2003b). In addition to the sperm parameter measurements (i.e., RSA's primary assessment metrics), the LHAAP field effort collected additional supplemental information. This information can be categorized as population- and tissue-based. The former includes total animal captures, relative abundance of animals and species, sex ratios, age distribution, and relative trap success. Tissue-based information includes animal body weights, several organ-to-body weight ratios, and a histological examination for kidney, liver, spleen, and epididymis. The population- and tissue-based information can often be used to corroborate the findings of the sperm parameters assessment.

14.3.1 RSA Findings

The two dominant small rodent species collected at the sites were the hispid cotton rat (*Sigmodon hispidus*) and the cotton mouse (*Peromuscus gossypinus)*, although a few individuals of golden mouse (*Ochrotomys nuttalli*) and marsh rice rat (*Oryzomys paulustris*) were also collected. A total of 1,500 trap nights occurred at Plant 2, 1,500 trap nights occurred at the Goose Prairie Creek Drainage Area, 600 trap nights occurred at the Wetland Area, and 2,700 trap nights occurred at the reference area. Hispid cotton rat captures were more than double the number of cotton mouse captures. Total hispid cotton rat captures at the three study sites (i.e., 47, 9, and 36 for the Plant 2, Goose Prairie Creek Drainage, and Wetland Area, respectively) generally exceeded captures in the reference area (i.e., 28) (USACHPPM, 2006; Deck, 2007), providing an indication that the condition of the study sites was not limiting to this species. Catch per unit effort results are presented below for the hispid cotton rat:

Area	**Plant 2**	**GPC Drainage**	**Wetland Area**	**Reference Area**
Total Captures	47	9	36	28
Trap Nights	1,500	1,500	600	2,700
Captures/Trap Night	0.031	0.006	0.060	0.010

Eleven out of the 15 hispid cotton rats at two of the three study sites had an adult appearance (size, weight), but lacked sperm entirely. Cotton mice were not nearly as numerous as the hispid cotton rats at the study sites or the reference areas; therefore, the sperm parameter comparisons for this species were only sufficiently robust for analysis at one of the sites. Almost all of the organ-to-body weight ratios for the hispid cotton rats were lower at the various study sites compared to the reference locations. However, it is important to note that no relationship has been documented between organ-to-body weight ratios and population level effects (USACHPPM, 2006).

14.3.2 RSA Discussion

One of RSA's principal assumptions is that if, after several decades of exposure to contaminated site media animals do not display evidence of reproductive impact, then it is reasonable to anticipate that future reproductive impacts will not arise (Tannenbaum et. al., 2003a). This principal assumption is built on two other assumptions. First, that rodents generally have the maximum and/or worse-case exposures of terrestrial receptors (principally mammals and birds). If rodent reproduction is proceeding adequately, then this should also be the case for other terrestrial receptors (i.e., those that have a decidedly lesser degree of contact with the contaminated terrestrial ecosystem than do rodents, and those that cannot be captured and sacrificed for study). Second, tracking reproduction as the only toxicological endpoint amounts to a sufficiently rigorous assessment scheme. If reproduction is proceeding adequately at a historically contaminated site (Tannenbaum, 2003), then this indicates that animals are able to live until they are sexually mature, find mates, and go on to produce viable young. Additionally, if a species continues to produce viable young at a historically contaminated site (e.g., LHAAP), this is reasonably interpreted to mean that no other biological function (e.g., behavior, neurology) is being compromised at a level of concern.

RSA is able to arrive at rather definitive determinations of terrestrial receptor health because it is known how much of a perturbation in the sperm parameters (i.e., count, motility, and morphology, all of which are barometers of reproductive health) is needed for there to be a condition of biological/ecological compromise. Further, because rodents produce 10-20 times more sperm than is necessary to ensure that adequate reproduction proceeds, as much as an 80 to 90 percent sperm count reduction is needed before a claim can be made of impaired reproduction at the population level. In the interest of maintaining conservatism when assessing the reproductive condition of field-collected rodents at contaminated sites, USACHPPM, based on supportive peer-reviewed documentation, elected to apply a 60 percent sperm count reduction as the "trigger" for possible compromised reproduction. The literature also reports that sperm motility needs to be approximately 40 to 50 percent reduced from the control condition (here, the sperm motility of the reference area) in order to claim a case of reproductive impact. Sperm morphology (abnormality) appears to be the most sensitive of the three sperm parameters; an increase of only 4 percent from the "control rate" (i.e., the frequency of abnormal sperm occurring in the background, or in the case of LHAAP, the reference area) is enough to conclude that reproductive compromise is occurring.

For LHAAP, none of the sperm parameter thresholds were exceeded for either the hispid cotton rat or the cotton mouse, nor were there any statistically significant differences for these comparisons. Several other sperm parameter measures routinely analyzed with RSA include progressive motility, path velocity, curvilinear velocity, straight-line velocity, and beat cross frequency. Although it has not been established that these parameters are barometers of

reproductive success (as are count, motility, and abnormality), the finding that there are no statistically significant differences between group means for these ancillary parameters provides corroboration that the reproductive system of the rodents is not ill-effected at the three LHAAP areas studied.

14.3.3 RSA Conclusions

For the hispid cotton rat (the dominant rodent species caught at LHAAP during the RSA Study), none of the established sperm parameter thresholds for effect were exceeded at the three study sites. The data are interpreted to mean that reproductive capability is not compromised in maximally exposed terrestrial receptors (small rodents) and by extension in other larger and wider-ranging mammals.

Corroboration for the finding of successful reproduction in mammals based on sperm parameters is provided by the similarity in total animal captures at the study sites and the reference areas, which suggests that fecundity is similar between the potentially contaminated sites and control areas.

As mentioned previously, 11 out of the 15 hispid cotton rats at the Plant 2 area had an adult appearance (size, weight), but were observed to have no sperm. However, in light of the numerous animal captures, there appears to be no reproductive compromise associated with this observation. The absence of sperm in adult male rats may be a result of a phenomenon known as azoospermia that may have a biological or genetic basis unrelated to chemical contamination at LHAAP (Tannenbaum, in preparation).

Table 14-1
Chromium Speciation Results for Soil

Table 14-2
Sample Summary for BERA Field Work

Table 14-3
Ratios Used for the Development of Soil-to-Earthworm Uptake Factors for Metals

Table 14-4
Ratios Used for the Development of Soil-to-Earthworm Uptake Factors for Explosives

Table 14-5
Results of Regression Analysis for Soil-to-Earthworm BAFs

Table 14-6
Ratios Used for the Development of Soil-to-Plant Uptake Factors for Metals

Table 14-7
Ratios Used for the Development of Soil-to-Plant Uptake Factors for Explosives

Table 14-8
Results of Regression Analysis for Soil-to-Plant BAFs

Table 14-9
Ratios Used for the Development of Sediment-to-Benthic Invertebrate Uptake Factors for Metals

Table 14-10
Results of Regression Analysis for Sediment-to-Benthic Invertebrate BAFs

Table 14-11
Selection of Final Soil-to-Earthworm Bioaccumulation Factors for Soil COPECs

Table 14-12
Selection of Final Soil-to-Plant Bioaccumulation Factors for Soil COPECs

Table 14-13
Selection of Final Sediment-to-Benthic Invertebrate Bioaccumulation Factors for Sediment COPECs

Table 14-1
Chromium Speciation Results for Soil (mg/kg)

Sample	Total Cr	Cr^{VI}	Cr^{VI} Qualifier	Cr^{III}	Cr^{III} : Cr^{VI} Ratio	Comments
ERA-SS-01	23.6	0.577	U	23.0	39.9	Soil Samples Collected at Possible Chromate (Cr^{VI}) Source Areas
ERA-SS-02	21.6	0.148	J	21.5	145	
ERA-SS-03	11.3	0.556	U	10.7	19.3	
ERA-SS-04	21.9	0.553	U	21.3	38.6	
ERA-SS-06	44.7	0.587	U	44.1	75.1	
ERA-SS-07	56.8	0.584	U	56.2	96.3	
ERA-SS-08	31.9	0.539	U	31.4	58.2	
ERA-SS-09	69.8	0.580	J	69.2	119	
				Mean	74.0	
				Standard Deviation	43.5	
				95% Confidence Interval	45 - 103	

Sample	Total Cr	Cr^{VI}	Cr^{VI} Qualifier	Cr^{III}	Cr^{III} : Cr^{VI} Ratio	Comments
ERA-SS-10	22.7	0.553	U	22.1	40.0	Samples Collected at Non-Chromate Source Areas (Cr^{III})
ERA-SS-11	70.6	0.555	U	70.0	126	
ERA-SS-12	28.9	0.561	U	28.3	50.5	
ERA-SS-13	10.8	0.571	U	10.2	17.9	
ERA-SS-14	27.2	0.592	U	26.6	44.9	
ERA-SS-15	31.8	0.296	U	31.5	106	
ERA-SS-16	42.1	0.530	U	41.6	78.4	
ERA-SS-17	58.4	0.555	U	57.8	104	
ERA-SS-18	21	0.587	U	20.4	34.8	
				Mean	67.1	
				Standard Deviation	37.9	
				95% Confidence Interval	43 - 91	

Notes:

The sample quantitation limit was used for "U" results.

Cr^{III} estimated by subtracting Cr^{VI} from total Cr result.

Sample ERA-SS-05 could not be collected due to the presence of cement slab.

Cr^{III} chromium III

Cr^{VI} chromium VI

J estimated value

mg/kg milligrams per kilogram

U non-detect

Table 14-2
Sample Summary for BERA Field Work

Location	Sample No [a]	Matrix	Date	Depth (ft bgs)	Analyses
Industrial Sub-Area Terrestrial Samples					
LHSMW50	LHSMW50-BERA-SS05EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Solids
LHSMW50	LHSMW50-BERA-PLG05	Plant (grass)	05-OCT-06	NA	Metals, Solids
LHSMW50	LHSMW50-BERA-PLT05	Plant (tree)	05-OCT-06	NA	Perchlorate, Solids
LHSMW50	LHSMW50-BERA-SS05	Soil	05-OCT-06	0 - 0.5	Metals, Perchlorate, TOC, solids
LHSMW02	LHSMW02-BERA-SS04EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Solids
LHSMW02	LHSMW02-BERA-PLG04	Plant (grass)	05-OCT-06	NA	Metals, Solids
LHSMW02	LHSMW02-BERA-PLT04	Plant (tree)	05-OCT-06	NA	Perchlorate, Solids
LHSMW02	LHSMW02-BERA-SS04	Soil	05-OCT-06	0 - 0.5	Metals, Perchlorate, TOC, solids
LH-S24-01	LHS24-01-BERA-SS01EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Solids
LH-S24-01	LH-S24-01-BERA-PLG01	Plant (grass)	05-OCT-06	NA	Metals, Solids
LH-S24-01	LH-S24-01-BERA-PLT01	Plant (tree)	05-OCT-06	NA	Perchlorate, Solids
LH-S24-01	LH-S24-01-BERA-SS01	Soil	05-OCT-06	0 - 0.5	Metals, Perchlorate, TOC, solids
LH-DL723-01	LHDL723-01-BE-SS02EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Solids
LH-DL723-01	LH-DL723-01BERAPLG02	Plant (grass)	05-OCT-06	NA	Metals, Solids
LH-DL723-01	LH-DL723-01BERAPLT02	Plant (tree)	05-OCT-06	NA	Perchlorate, Solids
LH-DL723-01	LH-DL723-01-BERASS02	Soil	05-OCT-06	0 - 0.5	Metals, Perchlorate, TOC, solids
25C-56	25C56-BERA-SS03EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Solids
25C-56	25C-56-BERA-PLG03	Plant (grass)	05-OCT-06	NA	Metals, Solids
25C-56	25C-56-BERA-PLT03	Plant (tree)	05-OCT-06	NA	Perchlorate, Solids
25C-56	25C-56-BERA-SS03	Soil	05-OCT-06	0 - 0.5	Metals, Perchlorate, TOC, solids
Waste Sub-Area Terrestrial Samples					
N50E25	N50E25-BERA-SS07EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Explosives, Solids
N50E25	N50E25-BERA-PLG07	Plant (grass)	05-OCT-06	NA	Explosives, Metals, Solids
N50E25	N50E25-BERA-SS07	Soil	05-OCT-06	0 - 0.5	Explosives, Metals, TOC, Solids
17SS22	17SS22-BERA-SS08EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Explosives, Solids
17SS22	17SS22-BERA-PLG08	Plant (grass)	05-OCT-06	NA	Explosives, Metals, Solids
17SS22	17SS22-BERA-SS08	Soil	05-OCT-06	0 - 0.5	Explosives, Metals, TOC
17SD07	17SD07-BERA-SS06EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Explosives, Solids
17SD07	17SD07-BERA-PLG06	Plant (grass)	05-OCT-06	NA	Explosives, Metals, Solids
17SD07	17SD07-BERA-SS06	Soil	05-OCT-06	0 - 0.5	Explosives, Metals, TOC, Solids
17SD07	17SD07-BERA-SS06DUP	Soil	05-OCT-06	0 - 0.5	Explosives, Metals, Solids
17SB04	17SB04-BERA-SS10EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Explosives, Solids
17SB04	17SB04-BERA-PLG10	Plant (grass)	05-OCT-06	NA	Explosives, Metals, Solids
17SB04	17SB04-BERA-SS10	Soil	05-OCT-06	0 - 0.5	Explosives, Metals, TOC, Solids
17SB02	17SB02-BERA-SS09EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Explosives, Solids
17SB02	17SB02-BERA-PLG09	Plant (grass)	05-OCT-06	NA	Explosives, Metals, Solids
17SB02	17SB02-BERA-SS09	Soil	05-OCT-06	0 - 0.5	Explosives, Metals, TOC, Solids
Earthworm Tissue - Control					
CONTROL TISSUE	CONTROL-EF	Earthworm	11-NOV-06	NA	Lipids, Metals, Solids
On-Site (Goose Prairie Creek Watershed) Sediment Aquatic Samples [b]					
GPWSD02	GPWSD02LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
GPWSD02	GPWSD02-BERA-SD11	Sediment	03-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
GPWSD03	GPWSD03LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
GPWSD03	GPWSD03-BERA-SD07	Sediment	03-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
IWSD06	IWSD06LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
IWSD06	IWSD06-BERA-SD06	Sediment	03-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
REFERENCE					
BKG-SD04	BKGSD04-BERA-REFSD01	Sediment	03-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, Solids
Off-Site (Goose Prairie Creek Cove - Caddo Lake) Sediment Aquatic Samples [b]					
CL-GPSN-2	CL-GPSN-2LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
CL-GPSN-2	CL-GPSN-2-BERA-SD09	Sediment	06-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
CL-GPSN-3	CL-GPSN-3LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
CL-GPSN-3	CL-GPSN-3-BERA-SD02	Sediment	06-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
CL-GPSN-4	CL-GPSN-4LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
CL-GPSN-4	CL-GPSN-4-BERA-SD01	Sediment	06-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
CL-GPSS-2	CL-GPSS-2LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
CL-GPSS-2	CL-GPSS-2-BERA-SD04	Sediment	04-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
CL-GPSS-3	CL-GPSS-3LV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
CL-GPSS-3	CL-GPSS-3-BERA-SD10	Sediment	04-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids, Sulfate, Metals-AVS [c]
REFERENCE					
BKG-CL-SD12	BKG-CL-SD12-REFSD02	Sediment	04-OCT-06	0 - 0.5	General Chemistry, Metals, TOC, grain size, Solids
Lumbriculus Tissue - Control					
CONTROL TISSUE	CONTROLLV-112906	Lumbriculus	29-NOV-06	NA	Metals, Solids
Lumbriculus Tissue - Initial					
INITIAL TISSUE	INITIALLV-103106	Lumbriculus	29-NOV-06	NA	Metals, Solids
Sediment Samples (Not Used) [b]					
32SD09	32SD09-BERA-SD05	Sediment	03-OCT-06	0 - 0.5	Metals, TOC, grain size
50SD05	50SD05-BERA-SD08	Sediment	03-OCT-06	0 - 0.5	Metals, TOC, grain size
GPCSD03	GPCSD03-BERA-SD12	Sediment	03-OCT-06	0 - 0.5	Metals, TOC, grain size

Table 14-2
Sample Summary for BERA Field Work

Location	Sample No [a]	Matrix	Date	Depth (ft bgs)	Analyses
CL-GPSS-1	CL-GPSS-1-BERA-SD03	Sediment	04-OCT-06	0 - 0.5	Metals, TOC, grain size
Surface Water - Hardness					
50SD05	50SD05-BERA-SW01	Surface Water	04-OCT-06	NA	Hardness
BKG-CL-SD12	BKG-CL-SD12-REFSW02	Surface Water	04-OCT-06	NA	Hardness

Notes:

[a] Field duplicates are indicated by the addition of "DUP" to the sample number.

[b] Sediment samples were selected for use in the BERA based on results of a rapid-turn around analysis for metals. Samples that were selected for inclusion represent the best range of data for uptake factor development and sediment toxicity testing.

[c] Metals for the Metals-AVS analysis include lead, mercury, nickel, silver, cadmium, copper, and zinc.

AVS/SEM = Acid volatile sulfides/simultaneously extracted metals
BERA = Baseline ecological risk assessment
ft bgs = feet below ground surface
NA = Not applicable
TOC = Total organic carbon

Table 14-3

Ratios [a] Used for the Development of Soil-to-Earthworm Uptake Factors for Metals

BERA Sample Location	Soil-to-Earthworm BAFs for Final COPECs				
	Barium	Cadmium	Chromium [b]	Lead	Zinc
17SB02-BERA-SS09	5.63E-03	8.40E-01	1.64E-02	1.20E-02	5.81E-02
17SB04-BERA-SS10	5.49E-02	2.10E+01	1.81E-02	5.89E-02	1.41E+00
17SD07-BERA-SS06	7.99E-03	9.00E-01	1.22E-02	1.79E-02	1.12E-01
17SS22-BERA-SS08	1.17E-02	1.31E+00	1.89E-02	1.68E-02	1.79E-01
25C56-BERA-SS03	2.00E-02	5.06E+00	3.01E-02	2.50E-02	1.36E-01
LH-DL723-01-BERASS02	2.48E-02	6.95E+00	2.22E-02	1.04E-02	6.90E-01
LH-S24-01-BERA-SS01	1.41E-02	2.16E+00	1.52E-02	2.32E-02	6.12E-02
LHSMW02-BERA-SS04	2.44E-02	5.40E+00	1.24E-02	6.49E-03	1.14E-01
LHSMW50-BERA-SS05	3.55E-02	1.13E+01	2.77E-02	1.70E-02	1.50E+00
N50E25-BERA-SS07	5.00E-02	6.06E+00	1.98E-02	3.08E-02	5.37E-01
Min	5.63E-03	8.40E-01	1.22E-02	6.49E-03	5.81E-02
Max	5.49E-02	2.10E+01	3.01E-02	5.89E-02	1.50E+00
Arithmetic Mean	2.49E-02	6.10E+00	1.93E-02	2.18E-02	4.80E-01

Notes:

[a] Ratios were calculated by dividing the detected concentration in tissue by the detected concentration in surface soil (0-0.5 feet).

[b] All chromium earthworm tissue samples were "B" qualified, indicating they approximated concentrations in the control sample.

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

Table 14-4
Ratios [a] Used for the Development of Soil-to-Earthworm Uptake Factors for Explosives

BERA Sample Location	Soil-to-Earthworm BAFs for Final COPECs		
	2,4-DNT	2,6-DNT	TNT
17SB02-BERA-SS09	4.12E-04	8.14E-03	7.87E-03
17SB04-BERA-SS10	---	---	6.74E-01
17SD07-BERA-SS06	1.27E-01	6.86E-01	1.29E-01
17SS22-BERA-SS08	---	---	6.20E-01
N50E25-BERA-SS07	---	---	---
Min	4.12E-04	8.14E-03	7.87E-03
Max	1.27E-01	6.86E-01	6.74E-01
Arithmetic Mean	6.38E-02	3.47E-01	3.58E-01

Notes:

[a] Ratios were calculated by dividing the detected concentration in tissue by the detected concentration in surface soil (0-0.5 feet).

--- = Ratios were not calculated for a sample location if the chemical was not detected in both the tissue and soil media.

Shaded cells were non-detect for concentrations of the COPEC in earthworm tissue. BAFs were calculated using 1/2 the method detection limit in tissue.

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

Table 14-5
Results of Regression Analysis for Soil-to-Earthworm BAFs

Final Soil COPEC	N	B0 (intercept)	B1 (slope)	R^2	P model fit	Use for BERA? [a]
Barium	10	-1.923	0.624	0.891	< 0.001	Yes
Cadmium	10	0.420	0.360	0.894	< 0.001	Yes
Chromium	10	-2.605	0.443	0.397	0.051	No
Lead	10	-4.041	1.01	0.917	< 0.001	Yes
Zinc	10	2.864	0.016	0.026	0.653	No
Perchlorate	NA - No further refinement of the soil-to-earthworm pathway necessary for this COPEC					
2,4-DNT	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see Table 14-4)					
2,6-DNT	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see Table 14-4)					
2,4,6-TNT	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see Table 14-4)					

Notes:

Model: ln(earthworm) = B0 + B1 (ln[soil])

[a] Regression equation is used as the BAF for the BERA if the model slope (P Model Fit) is significantly different from zero ($p<0.05$), and the coefficient of determination (R^2) reflects a significant regression equation. The criterion for significance with sample size (n) of 10 is 0.399 (Steel, R.G.D. and J.H. Torrie, 1980, Principles and Procedures of Statistics, A Biometrical Approach, 2nd Edition, McGraw-Hill Book Company, New York.)

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

NA = Not applicable

Table 14-6
Ratios [a] Used for the Development of Soil-to-Plant Uptake Factors for Metals

BERA Sample Location	Soil-to-Plant BAFs for Final COPECs				
	Barium	Cadmium	Chromium	Lead	Zinc
17SB02-BERA-SS09	6.89E-03	1.72E-02	6.43E-02	1.41E-03	1.88E-01
17SB04-BERA-SS10	7.34E-01	7.67E+00	2.23E-01	1.27E-01	1.00E+01
17SD07-BERA-SS06	1.38E-02	2.40E-01	5.22E-02	3.83E-03	5.05E-01
17SS22-BERA-SS08	1.05E-01	1.46E-01	1.26E-01	2.96E-03	5.42E-01
25C-56-BERA-SS03	2.06E+00	5.00E+00	1.57E-01	1.85E-02	1.98E+00
LH-DL723-01-BERASS02	7.62E-02	4.53E-01	8.03E-02	3.90E-03	9.47E-01
LH-S24-01-BERA-SS01	3.65E-01	7.78E-01	5.69E-02	1.26E-02	2.69E-01
LHSMW02-BERA-SS04	5.08E-01	2.30E+00	6.64E-02	1.32E-02	1.01E+00
LHSMW50-BERA-SS05	2.68E+00	5.77E+00	1.20E-01	1.26E-02	3.66E+00
N50E25-BERA-SS07	7.31E-01	2.42E+00	2.84E-01	8.09E-03	3.08E+00
Min	6.89E-03	1.72E-02	5.22E-02	1.41E-03	1.88E-01
Max	2.68E+00	7.67E+00	2.84E-01	1.27E-01	1.00E+01
Arithmetic Mean	7.28E-01	2.48E+00	1.23E-01	2.04E-02	2.22E+00

Notes:

[a] Ratios were calculated by dividing the detected concentration in tissue by the detected concentration in surface soil (0-0.5 feet).

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

Table 14-7

Ratios [a] Used for the Development of Soil-to-Plant Uptake Factors for Explosives

BERA Sample Location	Soil-to-Plant BAFs for Final COPECs		
	2,4-DNT	2,6-DNT	TNT
17SB02-BERA-SS09	7.21E-03	1.40E-01	5.85E-03
17SB04-BERA-SS10	---	---	1.59E+01
17SD07-BERA-SS06	1.00E+01	1.67E+01	3.13E+00
17SS22-BERA-SS08	---	---	3.40E+01
N50E25-BERA-SS07	---	---	---
Min	1.00E+01	1.40E-01	5.85E-03
Max	1.00E+01	1.67E+01	3.40E+01
Arithmetic Mean	5.00E+00	8.40E+00	1.33E+01

Notes:

[a] Ratios were calculated by dividing the detected concentration in tissue by the detected concentration in surface soil (0-0.5 feet).

--- = Ratios were not calculated for a sample location if the chemical was not detected in both the tissue and soil media.

Shaded cells were non-detect for concentrations of the COPEC in plant tissue. BAFs were calculated using 1/2 the method detection limit in tissue.

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

Table 14-8
Results of Regression Analysis for Soil-to-Plant BAFs

Final Soil COPEC	N	B0 (intercept)	B1 (slope)	R^2	P model fit	Use for BERA? [a]
Barium	10	3.476	0.073	0.011	0.774	No
Cadmium	NA - No further refinement of the soil-to-plant pathway necessary for this COPEC					
Chromium	NA - No further refinement of the soil-to-plant pathway necessary for this COPEC					
Lead	NA - No further refinement of the soil-to-plant pathway necessary for this COPEC					
Zinc	NA - No further refinement of the soil-to-plant pathway necessary for this COPEC					
Perchlorate	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see text for details)					
2,4-DNT	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see Table 14-7)					
2,6-DNT	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see Table 14-7)					
2,4,6-TNT	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see Table 14-7)					

Notes:

Model: ln(plant) = B0 + B1 (ln[soil])

[a] Regression equation is used as the BAF for the BERA if the model slope (P Model Fit) is significantly different from zero ($p<0.05$), and the coefficient of determination (R^2) reflects a significant regression equation. The criterion for significance with sample size (n) of 10 is 0.399 (Steel, R.G.D. and J.H. Torrie, 1980, Principles and Procedures of Statistics, A Biometrical Approach, 2nd Edition, McGraw-Hill Book Company, New York.)

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

NA = Not applicable

Table 14-9

Ratios [a] Used for the Development of Sediment-to-Benthic Invertebrate Uptake Factors for Metals

BERA Sample Location	Sediment-to-Benthic Invertebrate BAFs for Final COPECs			
	Lead	Mercury	Silver	Thallium
CL-GPSN-2	2.88E-01	1.00E-01	NA [b]	NA [c]
CL-GPSN-3	4.89E-01	4.34E-01		
CL-GPSN-4	8.90E-01	2.95E-01		
CL-GPSS-2	6.84E-02	2.80E-01		
CL-GPSS-3	3.01E-01	2.17E-01		
GPWSD02	3.64E-01	1.33E+00		
GPWSD03	1.00E-01	1.69E+00		
IWSD06	1.32E-01	1.67E+00		
Min	6.84E-02	1.00E-01		
Max	8.90E-01	1.69E+00		
Arithmetic Mean	3.29E-01	7.52E-01		

Notes:

[a] Ratios were calculated by dividing the detected concentration in tissue by the detected concentration in sediment.

[b] No further refinement of the sediment-to-benthic invertebrates pathway necessary for this COPEC.

[c] All *Lumbriculus* tissue samples were non-detect for thallium. The method detection limit (MDL) was several orders of magnitude greater than the low (typically "J"-flagged") concentrations in sediment due to low percent solids in the samples. Therefore, uptake factor ratios based on 1/2 the MDL are artificially high, and were not used to calculate an average BAF ratio.

BAF = Bioaccumulation factor
BERA = Baseline ecological risk assessment
COPEC = Chemical of potential ecological concern
NA = Not applicable

Table 14-10
Results of Regression Analysis for Sediment-to-Benthic Invertebrate BAFs

Final Sediment COPEC	N	B0 (intercept)	B1 (slope)	R^2	P model fit	Use for BERA? [a]
Lead	8	-3.014	1.373	0.826	0.002	Yes
Mercury	8	-1.572	0.089	0.046	0.610	No
Silver	NA - No further refinement of the sediment-to-aquatic invertebrates pathway necessary for this COPEC					
Thallium	NA - Due to the number of non-detects, data set not sufficiently robust for regression analysis (see Table 14-9)					

Notes:

Model: ln(aq inv) = B0 + B1 (ln[sediment])

[a] Regression equation is used as the BAF for the BERA if the model slope (P Model Fit) is significantly different from zero ($p<0.05$), and the coefficient of determination (R^2) reflects a significant regression equation. The criterion for significance with sample size (n) of 8 is 0.500 (Steel, R.G.D. and J.H. Torrie, 1980, Principles and Procedures of Statistics, A Biometrical Approach, 2nd Edition, McGraw-Hill Book Company, New York.)

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

NA = Not applicable

Table 14-11
Selection of Final Soil-to-Earthworm Bioaccumulation Factors for Soil COPECs

Final Soil COPEC	Previous Tier 1 BAF [a]	Calculated BERA BAF Ratio	Regression Equation Based on Data from BERA	BAF Selected for BERA	Rationale
Barium	0.16	0.025	$\ln(C_e) = 0.624 * \ln(C_s) - 1.923$	BERA regression eq.	Regression equation based on field data most appropriate
Cadmium	25.25	6.10	$\ln(C_e) = 0.36 * \ln(C_s) + 0.42$	BERA regression eq.	Regression equation based on field data most appropriate
Chromium	3.162	0.019	Not Significant	0.019	BAF based on field data most appropriate
Lead	0.36	0.022	$\ln(C_e) = 1.01 * \ln(C_s) - 4.041$	BERA regression eq.	Regression equation based on field data most appropriate
Zinc	4.65	0.48	Not Significant	0.48	BAF based on field data most appropriate
Perchlorate	1.14	Soil-to-earthworm pathway did not require further evaluation in the BERA			
2,4-DNT	13.43	0.064 b	NA	0.064	BAF based on field data most appropriate
2,6-DNT	13.43	0.35 b	NA	0.35	BAF based on field data most appropriate
TNT	13.3	0.36 b	NA	0.36	BAF based on field data most appropriate

Notes:

[a] See Table 7-21 in Volume I of the BERA. Note that BAFs based on regression equations (i.e., cadmium, lead, and zinc) that are concentration-dependent were estimated using the 0-0.5 foot exposure point concentration for the chemical in the Industrial Sub-Area.

[b] Seven out of eight BAF soil/tissue explosives ratios were non-detect for 2,4-DNT, 2,6-DNT, and TNT in earthworm tissue; however, the reporting limits were not elevated in relation to soil concentrations and could be used to estimate tissue concentrations at 1/2 the method detection limit.

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

C_e = Concentration in earthworm

C_s = Concentration in soil

COPEC = Chemical of potential ecological concern

NA = Not applicable; BERA data were not robust enough for regression analysis.

Table 14-12
Selection of Final Soil-to-Plant Bioaccumulation Factors for Soil COPECs

Final Soil COPEC	Previous Tier 1 BAF [a]	Calculated BERA BAF Ratio	Regression Equation Based on Data from BERA	BAF Selected for BERA	Rationale
Barium	0.92	0.73	Not Significant	0.73	BAF based on field data most appropriate
Cadmium	0.93	Soil-to-plant pathway did not require further evaluation in the BERA			
Chromium	0.48	Soil-to-plant pathway did not require further evaluation in the BERA			
Lead	0.1	Soil-to-plant pathway did not require further evaluation in the BERA			
Zinc	0.72	Soil-to-plant pathway did not require further evaluation in the BERA			
Perchlorate	6.57	14,318 (4.8) b, c	NA	Tier 1 regression eq. [e]	BERA BAF not appropriate to use; see footnotes b and c
2,4-DNT	2.78	5.0 d	NA	2.78	BERA BAFs artificially high due to elevated detection limits; use Tier 1 value
2,6-DNT	2.37	8.4 d	NA	2.37	BERA BAFs artificially high due to elevated detection limits; use Tier 1 value
TNT	0.32	13.3 d	NA	0.32	BERA BAFs artificially high due to elevated detection limits; use Tier 1 value

Notes:

[a] See Table 7-20 in Volume I of the BERA. Note that BAFs based on regression equations (i.e., cadmium, lead, zinc, and perchlorate) that are concentration-dependent were estimated using the 0.0-5 foot exposure point concentration for the chemical in the Industrial Sub-Area.

[b] The BERA BAF was calculated by dividing the single detected plant concentration of 189 mg/kg by the co-located shallow (0-0.5 foot) BERA surface soil concentration (0.0132 mg/kg). The value in parentheses is the BAF that is calculated using the perchlorate concentration from the historical dataset (i.e., 39 mg/kg) that was detected in that sample location at a deeper soil depth (1-2 feet sample interval).

[c] BAF is based on a single detection of perchlorate in tissue and soil. The plant (tree) that was sampled is more likely to be associated with deeper soil than the 0-0.5 foot BERA sample. Using soil concentrations in the historical dataset from a deeper (1-2 feet) soil interval resulted in a BAF (i.e., 4.8) similar to that calculated by the Sample et al. regression equation (i.e., 6.57). Therefore, the regression equation is considered to be a more appropriate reflection of soil-plant uptake for perchlorate rather than the BERA BAF ratio that is based on a single shallow surface soil sample.

[d] Seven out of eight BAF soil/tissue explosives ratios were non-detect in plant tissue. Detection limits for plant tissue were greatly elevated in relation to soil concentrations.

[e] Regression equation: ln (BAF) = 0.5891(ln[soil])+2.41. See Sample, B.E, A. Tsao, and M.S. Johnson, 2005, *Development of Soil-to-Plant Bioaccumulation Models for Energetic Compounds and Metabolites* , presentation at the 2005 Society of Environmental Toxicology and Chemistry (SETAC) conference, Baltimore, MD. (using the equation for pooled monocots and dicots.)

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

C_p = Concentration in plant

C_s = Concentration in soil

COPEC = Chemical of potential ecological concern

NA = Not applicable; BERA data were not robust enough for regression analysis.

Table 14-13
Selection of Final Sediment-to-Benthic Invertebrate Bioaccumulation Factors for Sediment COPECs

Final Sediment COPEC	Previous Tier 1 BAF [a]	Calculated BERA BAF Ratio	Regression Equation Based on Data from BERA	BAF Selected for BERA	Rationale
Lead	0.607	0.33	$\ln(C_{inv}) = 1.373 * \ln(C_{sed}) - 3.014$	BERA regression eq.	Regression equation based on field data most appropriate
Mercury	2.868	0.75	Not Significant	0.75	BAF based on field data most appropriate
Silver	4.5	NA - No further refinement of the sediment-to-benthtic invertebrates pathway necessary for this COPEC			
Thallium	4.5	NA [c]		4.5	BERA BAFs artificially high due to elevated detection limits; use Tier 1 value

Notes:

[a] See Table 7-23 in Volume I of the BERA.

[b] Silver was only selected as a final COPEC due to concerns regarding direct contact toxicity; no site-specific BERA sediment-benthic invertebrate BAFs were calculated.

[c] All eight *Lumbriculus* tissue samples were non-detect for thallium. Method detection limits for tissue were greatly elevated in relation to estimated (J-qualified) sediment concentrations, and would have resulted in inappropriately high BAFs. Therefore, no BAFs were calculated for thallium based on the BERA data.

BAF = Bioaccumulation factor

BERA = Baseline ecological risk assessment

C_{inv} = Concentration in invertebrate

C_{sed} = Concentration in sediment

COPEC = Chemical of potential ecological concern

NA = Not applicable

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CHECKED BY	M. Weisberg 02/03/06
DRAWN BY	B. Lu 02/03/06
OFFICE	Houston, TX

Plot Date: 02/06

P-3
B-16
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49SB16
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08SB05
08SB04
35BSB01
46SD05
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LHAAP-51
LHAAP-53
LHAAP-58
LHAAP-59
LHAAP-60
LHAAP-61
LHAAP-64
LHAAP-66
LHAAP-67
LHAAP-68
LHAAP-69

Legend

- Chromium Speciation Sample (ERA-SS-01)

Chromium Concentration and Sample Number (e.g., LH-S79-01)

- 80.0 - 193.7 mg/kg
- 56.2 - 80.0 mg/kg
- 44.8 - 56.2 mg/kg
- 37.0 - 44.8 mg/kg
- Stream
- Road
- 68-C Possible Hexavalent Chromium Source Area and Bldg Number (e.g., 68-C)
- Site
- Industrial Sub-Area
- Water Body
- Approximate LHAAP Boundary

0 500 1,000 2,000 Feet

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FIGURE 14-1

LOCATIONS OF SOIL
SAMPLES FOR CHROMIUM SPECIATION
IN THE INDUSTRIAL SUB-AREA

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

00059488

N

LHAAP-32
LHAAP-37
LHAAP-47
LHAAP-08
LHAAP-50
LHAAP-67
LHAAP-09
31-W
LHAAP-29
LHAAP-53
LHAAP-12
Waste Sub-Area
LHAAP-24
LHAAP-18
LHAAP-11
LHAAP-39
ERA-SS-07
ERA-SS-08
ERA-SS-09
24-X
18SD07
LHAAP-13
LHAAP-16
LHAAP-57
17SS05
17SB04
17WW01
LHAAP-63
LHAAP-14
LHAAP-17
ERA-SS-18
49-W
LHAAP-15
LHAAP-19
Pistol Range
811-1
LHAAP-45
Low Impact Sub-Area
LHAAP-54

Legend

- Chromium Speciation Sample (ERA-SS-07)
- Chromium Concentration and Sample Number (e.g., 18-SD07)
- 59.6 mg/kg
- 56.6 mg/kg
- 54.3 mg/kg
- 53.2 mg/kg
- Stream
- Road
- 24-X Possible Hexavalent Chromium Source Area and Bldg Number (e.g., 24-X)
- Site
- Waste or Low Impact Sub-Area
- Water Body
- Approximate LHAAP Boundary

0 500 1,000 2,000 Feet

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY
Houston, TX	B. Lu 02/03/06	M. Weisberg 02/03/06	P. Srivastav 02/06/06

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Plot Date: 02/06

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TULSA DISTRICT
TULSA, OKLAHOMA

FIGURE 14-2

LOCATIONS OF SOIL SAMPLES
FOR CHROMIUM SPECIATION IN
THE WASTE AND LOW IMPACT SUB-AREAS

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Figure 14-3
Comparison of 95% Confidence Intervals and Means Between the Cr^{III} : Cr^{VI} Ratios Determined for Possible Chromate and Non-Chromate Source Areas

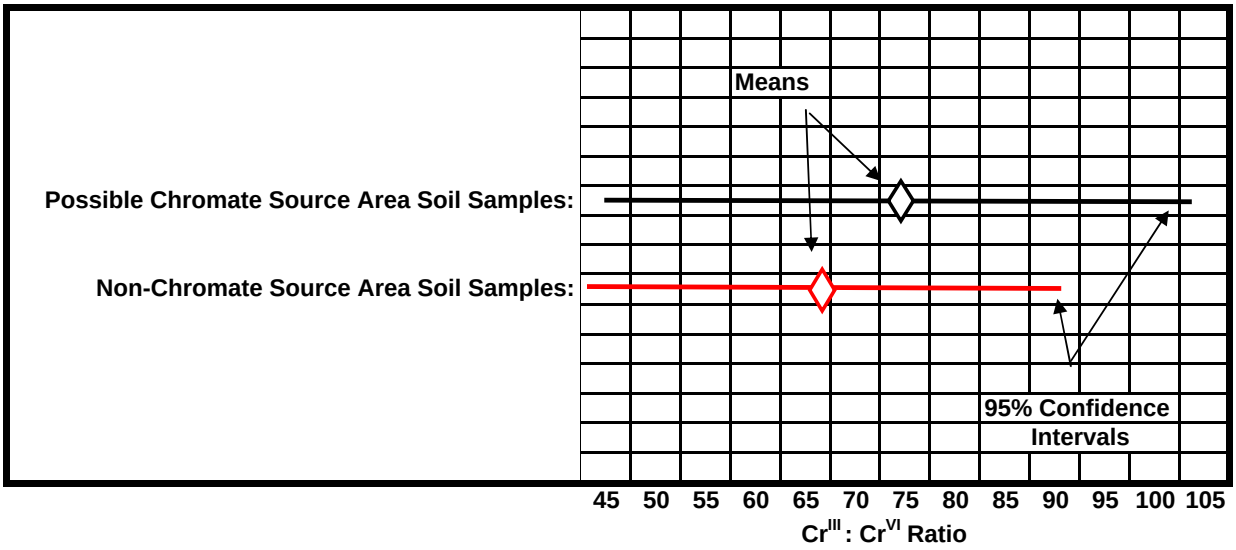


Figure 14-4
Amphipod Survival vs. Metal Final COPEC Sediment Concentrations

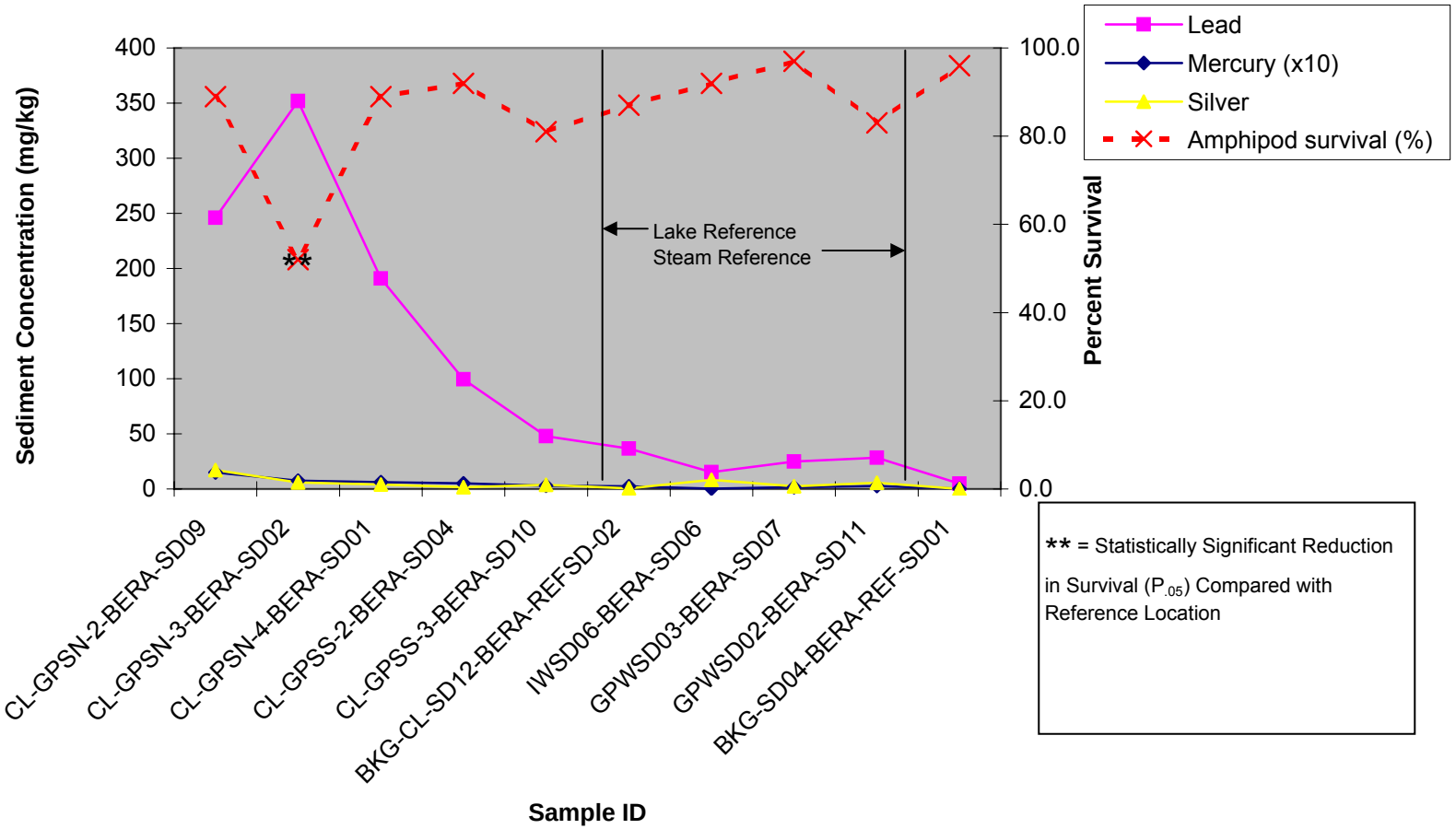
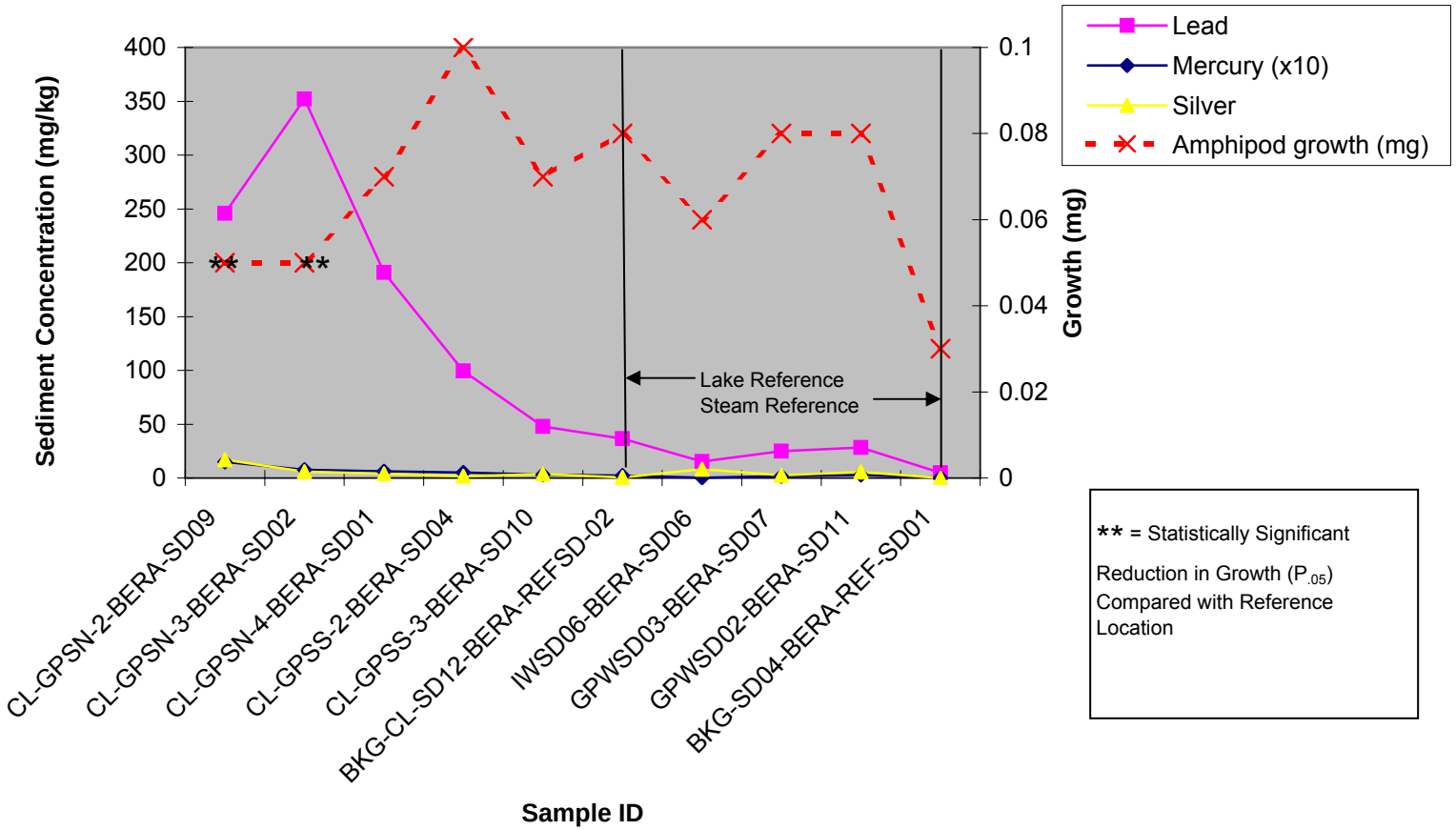


Fig 14-5
Amphipod Growth vs. Metal Final COPEC Sediment Concentrations



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APPROVED BY: P. Srivastav 01/31/07

CHECKED BY: M. Weisberg 12/22/06

DRAWN BY: B. Lu 12/22/06

OFFICE: Houston, TX

Plot Date: 01/07

P2 AREA

WETLAND AREA

GOOSE PRAIRIE CREEK DRAINAGE AREA

Goose Prairie Creek

Legend

- USACHPPM Rodent Trapping Location (with PAI Number) for Males with Sperm Metrics Determined
- Soil Boring
- Dry Sediment Sample
- Soil Sample
- Stream
- Road
- LHAAP Boundary
- Lake

0 300 600 1,200 Feet

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FIGURE 14-6

USACHPPM RODENT TRAPPING LOCATIONS AND NEARBY SURFACE SOIL AND DRY SEDIMENT SAMPLE LOCATIONS

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

15.0 Step 7: Risk Characterization

Section 15.0 presents Step 7, the results of the risk characterization.

15.1 Refined Food Chain Modeling Results Using Site-Specific Data

The food chain models that were used to estimate hazard for the selected measurement receptors at LHAAP in the BERA were the same models presented in the SLERA (**Section 7.2**, **Volume I**); however, they were re-run using the site-specific data presented in **Section 14**. The following changes in the food chain models for the BERA were applied to estimate hazard associated with the Final COPECs:

- Separate analyses for mammals were performed for Cr^{III} and Cr^{VI} using the site-specific Cr speciation data collected during the BERA. The EPCs for Cr^{III} and Cr^{VI} were calculated as the EPC for total Cr multiplied by 0.986 and 0.014, respectively, based on the 70:1 Cr^{III} to Cr^{VI} site-specific ratio determined to be present at LHAAP (see **Section 14.1**). Because only a TRV for Cr^{III} is available for birds, it was not necessary to calculate separate EPCs for avian receptors, and all Cr modeled for avian exposure was assumed to be Cr^{III}.

- The site-specific BAFs described in **Section 14.2** (**Tables 14-11** through **14-13)** were used in place of literature values, as appropriate.

- The lead EPCs in total and surface soil for the Waste Sub-Area were modified to include the concentrations identified in the Pistol Range data that were collected in 2006 (see **Section 10.1.6.2, Volume I**). Pistol Range samples were analyzed using both laboratory and XRF screening techniques. XRF data are generally not considered to be of sufficient quality for risk assessment purposes. Therefore, only the laboratory data were included in the re-calculation of the soil EPCs. (It is noted that a 95 percent UCL EPC using the lead dataset with the XRF data included is actually lower than when it is omitted.) The revised lead EPCs were considerably greater than those calculated without the Pistol Range data (previous Waste Sub-Area EPC for lead in surface soil and total soil was 74.4 and 55.9 mg/kg, respectively; the new EPCs were 178 and 151 mg/kg, respectively).

The eight food chain models for the various sub-area and watershed combinations were re-run incorporating the above changes, and EEQs associated with the final COPECs were calculated for all measurement receptors. The results of these models are summarized in **Tables 15-1** through **15-8**. These summary tables present the NOAEL- and LOAEL-based EEQs for the BERA food chain model iterations for each receptor for those chemicals that were identified as a final COPEC in the particular sub-area and/or watershed. For example, **Table 15-1**, which presents the summary for the Industrial Sub-Area and Goose Prairie Creek food chain model, includes EEQs associated with the soil final COPECs identified in the Industrial Sub-Area

(cadmium, Cr, zinc, and perchlorate) as well as the sediment final COPECs for Goose Prairie Creek (lead, mercury, silver, and thallium). The food chain model summary for the Low Impact Sub-Area/Saunders Branch watershed (**Table 15-6**) does not present any EEQs because there were no final COPECs in that sub-area or watershed. The BERA food chain models were run using the Tier 1 assumptions described in **Volume I**, **Section 7.2**, except as noted above. The Tier 2 results are not provided in the tables, as stakeholders have stated that risk decisions will not be made based on these data. In the tables, EEQs greater than 1 are shaded and bolded. Only receptors that had at least one EEQ greater than 1 are shown. The complete food chain model spreadsheets are presented in **Appendix O**.

Because hazard is assessed across all media and pathways, it is necessary to determine the medium-specific hazard for each final COPEC so that it can be determined which final COPECs, by medium, require further discussion and/or action in the risk management step (i.e., Step 8). A summary of the specific hazards associated with only the medium of concern (i.e., soil or sediment) for each of the final COPECs is presented in **Tables 15-9** and **15-10**. These tables isolate the medium-specific NOAEL- and LOAEL-based EEQs for the receptors that exceeded an EEQ of 1 from the previous food chain analysis (**Volume I**), and that were targeted for further refinement in the BERA (see **Tables 11-1** and **11-2**). The following Final COPECs had NOAEL EEQs that exceeded 1 for one or more receptors after the BERA site-specific data were applied to the food chain models:

SOIL (**Table 15-9**):

- Barium (Waste Sub-Area)
- Lead (Waste Sub-Area)
- 2,4-DNT (Waste Sub-Area)
- 2,6-DNT (Waste Sub-Area)
- 2,4,6-TNT (Waste Sub-Area)
- Dioxin (Waste Sub-Area)

SEDIMENT (**Table 15-10**):

- Mercury (Goose Prairie Creek)
- Thallium (Goose Prairie Creek, Harrison Bayou, and Central Creek)

These chemicals are carried forward for PRG development (**Section 15.7**).

15.2 Sediment Toxicity Test Results

Based on the evaluation of sediment toxicity using site-specific test results (**Section 14.2.5**), elevated concentrations of lead in the north Goose Prairie Creek Cove area of Caddo Lake appear to be related to statistically significant ($p < 0.05$) aquatic toxicity. The maximum

detected sediment lead concentration of 352 mg/kg was associated with a 40 percent reduction in amphipod survival. In addition, the two highest sediment lead concentrations (352 and 246 mg/kg, respectively) were both associated with amphipod growth reductions of 37.5 percent. The sample with the third highest sediment lead concentration (191 mg/kg) was not statistically different for either survival or growth from the lake reference sample. Therefore, based on the results of these site-specific toxicity tests, the NOAEL for lead in sediment is 191 mg/kg. Concentrations of the other two sediment COPECs (mercury and silver) do not appear to be related to the observed amphipod toxicity, based on visual comparisons of concentration and toxicity trends among the sample results (**Figures 14-4** and **14-5**).

Sediment samples collected from Goose Prairie Creek watershed (**Section 14.2.5**) were not statistically different for either survival or growth from the stream reference sample. Therefore, it is concluded that none of the final COPECs in sediment in the Goose Prairie Creek watershed are present at sufficiently high concentrations to pose significant toxicity to aquatic organisms, based on the BERA field data.

15.3 Direct Contact Soil Toxicity Evaluation

Results of the direct contact soil toxicity evaluation based on benchmark comparisons performed as part of the Step 3 evaluation (**Section 7.1.1, Volume I**) are summarized here. This summary is provided for purposes of transparency as requested by stakeholders. Based on previous agreements between the Army and the stakeholders, no soils at LHAAP will be remediated to protect receptors at the base-of-the-food-chain (i.e., terrestrial plants and terrestrial invertebrates).

The only changes in the benchmark screen from the Step 3 evaluation are as follows:

- The incorporation of site-specific Cr speciation results (i.e., Cr^{VI} is 1.4 percent of total Cr; **Section 14.1**) alters findings for potential Cr toxicity to terrestrial plant and invertebrate receptors. During Step 3, it was speculated that most of the Cr in soil was the less toxic form of Cr (i.e., Cr^{III}). This was confirmed by field studies. All sub-areas exceeded the Cr^{VI} earthworm benchmark, and both the Cr^{VI} and Cr^{III} plant benchmarks. Because only the Cr^{VI} benchmark was exceeded for terrestrial invertebrates, chromium is of low concern for these organisms due to the limited Cr^{VI} determined to be present in Installation soils. However, there is still some concern regarding toxicity to plants from Cr^{III}.
- The incorporation of a revised lead EPC for total soil at the Waste Sub-Area based on the addition of Pistol Range data collected in 2006 (**Section 15.1**)
- The presentation of terrestrial invertebrate (earthworm) survival results that were recorded during the soil-to-invertebrate bioaccumulation study (Section 3.3 in **Appendix N**)

During Step 3, EEQs were generated for each preliminary COPEC detected in soil. The EEQ is the EPC of a final COPEC in soil divided by the appropriate plant or invertebrate benchmarks. EEQs greater than 1 indicate an exceedance of the benchmark, and the potential for toxic effects. Two tiers of direct toxicity screens were conducted for both earthworms and plants. The Tier 1 screen used the 95 percent UCL concentration of each final COPEC in soil as the EPC, while the Tier 2 screen used the mean soil concentration as the EPC. The following subsections describe the direct contact soil toxicity evaluations for each area of concern.

15.3.1 Industrial Sub-Area

Of the chemicals for which an earthworm benchmark was available, Cr and mercury had EEQs that exceeded 1 for both the Tier 1 and Tier 2 screens (**Volume I**, **Table 7-1**). The hexavalent Cr EEQ dropped to 0.6 when the soil concentration was adjusted to account for the measured Cr speciation at LHAAP (**Section 14.1**). It should also be noted that earthworm survival during the 28-day bioaccumulation study averaged 98.3 percent for the five soil samples collected at this sub-area (**Appendix N**). This finding supports the conclusion that soil invertebrates are not being adversely affected by COPECs in LHAAP soils.

For the plant direct toxicity analysis, aluminum (both Tiers), Cr (both trivalent and hexavalent; both Tiers), mercury (Tier 1 only), selenium (both Tiers), vanadium (both Tiers) and zinc (both Tiers) exceeded benchmarks (**Volume I**, **Table 7-2**). The hexavalent Cr plant EEQ dropped to 0.7 when the soil concentration was adjusted to account for the measured Cr speciation at LHAAP (**Section 14.1**). Although a formal vegetation survey was not conducted at LHAAP during the BERA, no areas of stressed vegetation were observed in the Industrial Sub-Area during field work or other site visits.

15.3.2 Low Impact Sub-Area

Of the chemicals for which an earthworm benchmark was available, only Cr had an EEQ that exceeded 1 (**Volume I**, **Table 7-3**). The hexavalent Cr EEQ dropped to 0.4 when the soil concentration was adjusted to account for the measured Cr speciation at LHAAP (**Section 14.1**). For the plant direct toxicity evaluation, Cr (both trivalent and hexavalent; both Tiers), manganese (both Tiers), vanadium (both Tiers), and zinc (Tier 1 only) exceeded benchmarks (**Volume I**, **Table 7-4**). The hexavalent Cr plant EEQ dropped to 0.5 (Tier 1) and 0.4 (Tier 2) when the soil concentration was adjusted to account for the measured Cr speciation at LHAAP (**Section 14.1**). Although a formal vegetation survey was not conducted at LHAAP during the BERA, no areas of stressed vegetation were observed in the Low-Impact Sub-Area during field work or other site visits.

15.3.3 Waste Sub-Area

Of the chemicals for which an earthworm benchmark was available, barium, Cr, and 2,4,6-TNT had EEQs that exceeded 1 for both Tiers (**Volume I**, **Table 7-5**). The hexavalent Cr EEQ dropped to 0.6 when the soil concentration was adjusted to account for the measured Cr speciation at LHAAP (**Section 14.1**). It should also be noted that earthworm survival during the 28-day bioaccumulation study averaged 98.0 percent for the five soil samples collected at this sub-area (**Appendix N**). This finding supports the conclusion that soil invertebrates are not being adversely affected by COPECs in LHAAP soils.

For the plant direct toxicity analysis, aluminum (both tiers), barium (Tier 1 only), Cr (both trivalent and hexavalent; both tiers), lead (Tier 1 only), vanadium (both tiers), zinc (Tier 1 only), and 2,4,6-TNT (both tiers) exceeded benchmarks (**Volume I**, **Table 7-6**). The hexavalent Cr plant EEQ dropped to 0.7 (Tier 1) and 0.6 (Tier 2) when the soil concentration was adjusted to account for the measured Cr speciation at LHAAP (**Section 14.1**). Although a formal vegetation survey was not conducted at LHAAP during the BERA, no areas of stressed vegetation were observed in the Waste Sub-Area during field work or other site visits.

When the revised lead EPC in the Waste Sub-Area is used to account for incorporation of the 2006 Pistol Range data, the earthworm EEQ increased from 0.11 to 0.30 (Tier 1) and from 0.09 to 0.24 (Tier 2). The plant EEQ, using the revised Waste Sub-Area lead EPC, increased from 1.1 to 3.0 (Tier 1) and from 0.9 to 2.4 (Tier 2).

15.4 RSA Results

For the hispid cotton rat (the dominant rodent species caught at LHAAP during the RSA Study), none of the established sperm parameter thresholds for effect were exceeded at the three study sites (**Appendix P**). The results are interpreted to mean that reproductive capability is not compromised in maximally exposed terrestrial receptors (small rodents) and, by extension, in other larger and wider-ranging mammals. Corroboration for this finding is provided by the similarity in total animal captures at the study sites and the reference areas. Although some hispid cotton rats at the Plant 2 area were observed to have no sperm, there appears to be no population-level reproductive compromise associated with this observation given the numerous animal captures (**Section 14.3**).

15.4.1 RSA Findings and LHAAP Chemical Concentrations in Soil

Chemical analytical results for near surface soil samples (generally with the 0 to 2 foot range) collected at LHAAP at or near the three RSA study areas (the Plant 2 Area, the associated Plant 2 Wetlands Area, and the Goose Prairie Creek Drainage Area) were compiled to estimate the chemical exposure conditions for the small rodents evaluated in the RSA Study. It should be noted that reviewing chemical analytical results for soil is not part of the RSA method; however,

chemical analytical results for soil were reviewed during the BERA to establish a relationship between RSA results and concentrations of chemicals detected in soil at LHAAP. A list of samples included in this evaluation is provided in **Table 15-11**. Soil and dry sediment sample results were used in the data compilation if they were collected within 500 feet of a RSA rodent capture location. The home range of a hispid rat cotton rat is approximately 1.25 acres (Hawthorne, 1994), and the 500 foot distance was considered to be representative of the RSA capture locations.

Based on the soil sample analytical data, summary statistics and 95 percent UCL EPCs were determined for the final soil COPECs, as well as for two background inorganic chemicals (aluminum and vanadium) following the procedures employed in **Volume I**, **Section 6.1.3.3**. Soil concentration results are presented in **Table 15-12**. 95 percent UCL soil concentrations are representative of the exposure conditions experienced by the hispid cotton rats. Because rodents were determined not to be adversely affected based on the results of the RSA study, these site-specific chemical concentrations (95 percent UCLs) may be considered as NOAEL soil concentrations for the reproductive endpoint in small mammals. For the three RSA study areas, the 95 percent UCLs are summarized as follows:

Soil COPEC	Plant 2 Area 95% UCL (mg/kg)	Wetland Area 95% UCL (mg/kg)	GPC Drainage Area 95% UCL (mg/kg)	Highest 95% UCL (mg/kg)
Barium	300	171	115	300
Cadmium	2.14	0.57	0.269	2.14
Chromium (total)	27	15.2	35.3	35.3
Lead	36.2	14.3	19.1	36.2
Zinc	127	132	56.4	132
2,4-DNT	NA	0.0328	0.0342	0.0342
2,6-DNT	NA	0.0328	0.0342	0.0342
2,4,6-TNT	NA	NA	NA	NA
Perchlorate	0.0486	NA	NA	0.0486
2,3,7,8-TCDD TEQ	7.58E-06	NA	NA	7.58E-06
Background Inorganic Chemicals				
Aluminum	8,800	10,646	7,760	10,646
Vanadium	47.2	21.1	53.1	53.1

The highest 95 percent UCLs for a given chemical, which were generally found in the Plant 2 Area, are recommended for use as NOAEL soil concentrations associated with the RSA, and are considered further in **Section 15.5** and following sections. Aluminum and vanadium are not discussed further in **Section 15.5**, as they are background related.

15.5 Weight of Evidence Discussion

This weight of evidence discussion includes the primary lines of evidence presented and discussed in the BERA including:

- Refined food chain modeling findings using site-specific data
- Sediment toxicity test findings (along with AVS-SEM results)
- RSA findings (including small mammal densities measured in the field)

Each of these lines of evidence has its own strengths and weaknesses. The refined food chain modeling results are very relevant as they use site-specific BAFs and Cr speciation data, but they still represent a modeling approach that may not accurately predict actual population effects in the environment at LHAAP. Additionally, the food web models used in this BERA retain a certain level of conservatism and the estimated wildlife EEQs likely overestimate, rather than underestimate, actual ecological hazards for the receptors evaluated (**Section 15.1**).

The sediment toxicity test results present site-specific data and appear to identify lead as the major toxicant in several sediment samples collected from the north cove of Goose Prairie Creek Cove in Caddo Lake. These laboratory results may over- or underestimate in situ sediment toxicity based on the fact that the sediment samples went through extensive handling and disturbance prior to toxicity testing. However, the fact that AVS were not detected in the sediment samples (likely due to desiccated sediment resulting from drought conditions present prior to, and during, the sampling event) strongly suggests that toxicity was overestimated in the toxicity tests compared with normal in situ conditions (**Section 15.2**). In general, site-specific toxicity test results are much more useful for risk assessment purposes compared with the use of generic default sediment benchmarks. However, using re-hydrated dry sediments for the toxicity tests introduces additional uncertainty regarding how well the toxicity results reflect actual or potential toxicity during normal (i.e., non-drought) conditions.

The RSA results are most relevant for the purposes of assessing actual hazard to current small mammal populations at LHAAP exposed to COPECs in soil (**Section 15.3**). Although other wildlife receptors (such as birds) are not directly addressed by the RSA technique, it is reasonable to assume that small mammals are more closely associated with soil than other receptors and, therefore, serve as worst-case surrogates for other, less exposed wildlife expected at LHAAP. The results of the RSA study are somewhat limited because of the fact that only the Industrial Sub-Area and associated Goose Prairie Creek watershed were used as study areas; however, estimated NOAEL COPEC soil concentrations derived from these areas are directly applicable to the other areas of LHAAP (e.g., the Waste and Low-Impact Sub-Areas). A potential concern that arose from the RSA study is that some of the hispid cotton rats captured in the Plant 2 area were found to be azoospermic; however, this condition may have a biological or genetic basis unrelated to chemical contamination at LHAAP (**Section 14.3.3** and **Appendix P**).

The RSA results also address the phenomenon of chemical mixtures. In other words, because the rodents being studied are in direct contact with the soil (and all chemicals therein), it can be stated that the sum total of COPEC stressors at the Industrial Sub-Area are not impacting reproduction of these maximally-exposed small mammal receptors. In addition, RSA results also provide a line of evidence for avifauna not being impacted because bird exposure to soil is generally much less than rodents. Birds do not contact the ground nearly as much as small rodents, and birds are migratory species whereas mammals have a very small home range that creates a tight spatial relationship with the terrestrial system. When this information is considered, along with the observation that, for many COPECs, mammals have lower thresholds for effect (i.e., lower NOAEL- and LOAEL-based TRVs) than do birds, RSA outcomes can be used to strongly suggest that site birds are also probably not adversely impacted by chemical stressors.

Regardless of potential impacts from exposure to chemicals in site media, results of small mammal densities documented at the study areas and the paired reference locations indicated that there were no apparent impacts to small mammal populations at LHAAP.

15.6 Additional Risk Information

Additional risk information, which should be considered concurrently with an assessment of potential ecological hazard at LHAAP, is presented and discussed in this section.

A number of COPECs were determined to be background-related during the Step 3 evaluation (**Section 10.4**) and not formally evaluated in the BERA. These background COPECs were summarized in **Table 10-1** (**Volume I**) and are presented in the table below, along with their estimated EEQs that were calculated using the EPC (typically, the 95 percent UCL) from that particular sub-area or watershed. The maximum NOAEL-based EEQ of any receptor associated with the background chemical and the medium is also presented, with the receptor abbreviation listed in parentheses (i.e., STS = Short-tailed Shrew, RAC = Raccoon, RO = River Otter). It should be noted that these EEQs are based on the conservative assumptions used in the Step 3 food chain model (see **Volume I**) because they were not targeted for additional characterization in the BERA. Therefore, they are likely to overestimate potential hazard associated with background chemicals and many EEQs are unrealistically high and toxicologically implausible (Tannenbaum, 2002; 2003a; 2005). The notation "All < 1" indicates that the chemical did not exceed an EEQ of 1 for any receptor, but was placed on the background list due to concerns related to direct contact toxicity. Blank cells in the table indicate the COPEC was not selected as a final COPEC (see **Section 10.5**, **Volume I**, for details).

COPEC	Soil			Sediment				Surface Water			
	ISA	WSA	LISA	GPC	CC	HB	SB	GPC	CC	HB	SB
Aluminum [a]	*132 (STS)*	*128 (STS)*		*193 (RAC)*	*182 (RAC)*	*193 (RAC)*	*306 (RAC)*	*All < 1*	*All < 1*	*1.8 (RO)*	
Cadmium									*All < 1*		
Copper								*All < 1*	*All < 1*	*All < 1*	
Iron								*All < 1*	*All < 1*	*All < 1*	
Lead								*All < 1*	*All < 1*	*All < 1*	*All < 1*
Vanadium [a]	*2.9 (STS)*	*2.6 (STS)*	*1.7 (STS*				*2.7 (RAC)*				
Zinc		*All < 1*									
2,3,7,8-TCDD TEQ	*18.3 (STS)*										

Notes and Abbreviations:

[a] For aluminum and vanadium, see Section 15.4.1 for 95% UCL soil concentrations associated with RSA-based NOAELs.

CC Central Creek
COPEC Chemical of potential concern
GPC Goose Prairie Creek
HB Harrison Bayou
ISA Industrial Sub-Area
LISA Low Impact Sub-Area
RAC Raccoon
RO River Otter
SB Saunders Branch
STS Short-Tailed Shrew
WSA Waste Sub-Area

These background COPECs detected on the Installation may exert some additional hazard on receptors at LHAAP, in addition to the hazards associated with the selected final COPECs. However, this additional hazard is expected to be minor, as the receptors have been exposed to these background COPECs for many generations and are likely unaffected by their presence. The fact that a variety of species currently live on and use habitat at the Installation suggests that they are tolerant of hazard associated with background concentrations, although it is possible that less tolerant species have been displaced. One or more of the following points also apply to the chemicals presented in this list of background COPECs:

- The spatial organization of detected concentrations of these background COPECs does not suggest a hot spot. For example, some chemicals, such as thallium, were only detected sporadically at very low concentrations. For other chemicals, no concentration gradient from a potential source area was identified;
- Many of these background COPECs had a TRV effect that was not critical;
- Many of these background COPECs were not considered to be direct contact hazards (**Table 10-2** through **10-4**).

Therefore, no further consideration of these background COPECs is recommended.

15.7 Estimation of Food Web-Based Ecological PRGs

15.7.1 Soil

COPEC NOAEL concentrations estimated using RSA results, and soil sample analytical results collected during investigative activities at the Installation, were presented in **Section 15.4.1**, and represent values that may be used for NOAEL-based ecological preliminary remediation goals (EcoPRG). COPEC NOAEL and LOAEL concentrations estimated using the refined food chain models can be estimated using EPCs and EEQs from the refined food chain model (**Appendix O** and **Table 15-9**). As discussed in **Section 15.1**, there are five final COPECs in the Waste Sub-Area that require the calculation of food web-based EcoPRGs: barium, lead, 2,4-DNT, 2,6-DNT, 2,4,6-TNT, and Dioxin. These calculations are presented in the following subsections. Due to stakeholder concerns regarding a number of uncertainties involved with the RSA study (e.g., low sample size, variability in response, sample design, etc.), the RSA results are not used to calculate the primary EcoPRGs recommended in this BERA. However, the RSA study does present data on real-world observations of a class of organisms intimately associated with the soil in the most contaminated parts of the Installation, and the results have some value. Therefore, for certain chemicals "secondary EcoPRGs" are presented based on results of the RSA study. These secondary EcoPRGs may be considered as secondary cleanup values provided to risk managers that could be considered during an FS, along with other factors when final cleanup goals are selected.

Barium. As four receptors had EEQs above 1 (**Table 15-9**), separate food web-based EcoPRGs are necessary for each receptor, except as noted below for the Townsend's Big-Eared Bat.

- Townsend's Big-Eared Bat: As this receptor is a surrogate for a listed threatened or endangered species (the Rafinesque's big-eared bat), EcoPRGs may only be calculated based on the NOAEL (per TNRCC, 2001). Given a surface soil EPC of 1,011 mg/kg for barium and a NOAEL-based EEQ of 4.02, the NOAEL-based EcoPRG is 1011/4.02, or 252 mg/kg.
- Raccoon: Given a surface soil EPC of 1,011 mg/kg and a NOAEL-EEQ of 4.86, the NOAEL-based EcoPRG is 208 mg/kg. Given a surface soil EPC of 1,011 mg/kg and a LOAEL-EEQ of 1.25, the LOAEL-based EcoPRG is 808 mg/kg.
- Deer Mouse: Given a surface soil EPC of 1,011 mg/kg and a NOAEL-EEQ of 7.18, the NOAEL-based EcoPRG is 141 mg/kg. Given a surface soil EPC of 1,011 mg/kg and a LOAEL-EEQ of 1.85, the LOAEL-based EcoPRG is 547 mg/kg.
- Short-Tailed Shrew: Given a total soil EPC of 553 mg/kg and a NOAEL-EEQ of 1.67, the NOAEL-based EcoPRG is 331 mg/kg. Given a total soil EPC of 553 mg/kg and a LOAEL-EEQ of 0.431, the LOAEL-based EcoPRG is 1,283 mg/kg.

Lead. As only the American Woodcock had an EEQ above 1 (**Table 15-9**), food web-based EcoPRGs are necessary for this receptor only.

- American Woodcock: Given a surface soil EPC of 178 mg/kg and a NOAEL-EEQ of 2.38, the NOAEL-based EcoPRG is 75 mg/kg. Given a surface soil EPC of 178 mg/kg and a LOAEL-EEQ of 0.238, the LOAEL-based EcoPRG is 748 mg/kg. However, as discussed in **Section 10.1.6.1**, the lead TRVs used for the estimation of these EEQs were based on lead acetate in the laboratory toxicity study, not metallic lead. The lead acetate NOAELs and LOAELs were 1.13 mg/kg-day and 11.3 mg/kg-day, respectively (**Table 7-25** in **Volume I**). As lead acetate is not expected to be present in the environment at LHAAP and metallic lead is less bioavailable than lead acetate, the alternative metallic lead TRVs (i.e., NOAEL = 3.85 mg/kg-day and LOAEL = 11.55 mg/kg-day [Pattee, 1984 in Sample et al., 1996], **Table 7-25**) are recommended for use. The application of these alternative metallic lead TRVs results in an increase of the NOAEL-based EcoPRG by a factor of 3.4 (i.e., 3.85/1.13 mg/kg-day), and an increase in the LOAEL-EcoPRG by a factor of 1.02 (i.e., 11.55/11.3 mg/kg-day). Therefore, the recommended NOAEL- and LOAEL-based EcoPRGs are 255 and 763, respectively.

2,4-DNT. As two receptors had EEQs above 1 (**Table 15-9**), separate food web-based EcoPRGs are necessary for each receptor.

- Short-Tailed Shrew: Given a total soil EPC of 101 mg/kg and a NOAEL-EEQ of 10.5, the NOAEL-based EcoPRG is 9.6 mg/kg. Given a total soil EPC of 101 mg/kg and a LOAEL-EEQ of 1.4, the LOAEL-based EcoPRG is 72 mg/kg.
- Red Fox: Given a total soil EPC of 101 mg/kg and a NOAEL-EEQ of 22.9, the NOAEL-based EcoPRG is 4.4 mg/kg. Given a total soil EPC of 101 mg/kg and a LOAEL-EEQ of 3.05, the LOAEL-based EcoPRG is 33 mg/kg.

2,6-DNT. As three receptors had EEQs above 1 (**Table 15-9**), separate food web-based EcoPRGs are necessary for each receptor.

- Deer Mouse: Given a surface soil EPC of 2.4 mg/kg and a NOAEL-EEQ of 1.54, the NOAEL-based EcoPRG is 1.6 mg/kg. Given a surface soil EPC of 2.4 mg/kg and a LOAEL-EEQ of 0.512, the LOAEL-based EcoPRG is 4.7 mg/kg.
- Short-Tailed Shrew: Given a total soil EPC of 13.6 mg/kg and a NOAEL-EEQ of 3.51, the NOAEL-based EcoPRG is 3.9 mg/kg. Given a total soil EPC of 13.6 mg/kg and a LOAEL-EEQ of 1.17, the LOAEL-based EcoPRG is 12 mg/kg.
- Red Fox: Given a total soil EPC of 13.6 mg/kg and a NOAEL-EEQ of 2.99, the NOAEL-based EcoPRG is 4.5 mg/kg. Given a total soil EPC of 13.6 mg/kg and a LOAEL-EEQ of 0.998, the LOAEL-based EcoPRG is 14 mg/kg.

2,4,6-TNT. As eight receptors had EEQs above 1 (**Table 15-9**), separate food web-based EcoPRGs are necessary for each receptor, except as noted below for the Townsend's Big-Eared Bat and Raccoon (Louisiana Black Bear).

- Deer Mouse: Given a surface soil EPC of 491 mg/kg and a NOAEL-EEQ of 82, the NOAEL-based EcoPRG is 6.0 mg/kg. Given a surface soil EPC of 82 mg/kg and a LOAEL-EEQ of 54.6, the LOAEL-based EcoPRG is 9.0 mg/kg.
- Short-Tailed Shrew: Given a total soil EPC of 287 mg/kg and a NOAEL-EEQ of 75.5, the NOAEL-based EcoPRG is 3.8 mg/kg. Given a total soil EPC of 287 mg/kg and a LOAEL-EEQ of 50.3, the LOAEL-based EcoPRG is 5.7 mg/kg.
- Raccoon: Given a surface soil EPC of 491 mg/kg and a NOAEL-EEQ of 43.2, the NOAEL-based EcoPRG is 11 mg/kg. Given a surface soil EPC of 491 mg/kg and a LOAEL-EEQ of 28.8, the LOAEL-based EcoPRG is 17 mg/kg.
- Raccoon (Louisiana Black Bear): As this receptor is a surrogate for a listed threatened or endangered species (the Louisiana black bear), EcoPRGs may only be calculated based on the NOAEL, per TCEQ guidance (TNRCC, 2001). Given a surface soil EPC of 491 mg/kg for 2,4,6-TNT and a NOAEL-based EEQ of 5.58, the NOAEL-based EcoPRG is 88 mg/kg.
- Red Fox: Given a total soil EPC of 287 mg/kg and a NOAEL-EEQ of 51.2, the NOAEL-based EcoPRG is 5.6 mg/kg. Given a total soil EPC of 287 mg/kg and a LOAEL-EEQ of 34.1, the LOAEL-based EcoPRG is 8.4 mg/kg.
- Townsend's Big-Eared Bat: As this receptor is a surrogate for a listed threatened or endangered species (the Rafinesque's big-eared bat), EcoPRGs may only be calculated based on the NOAEL, per TCEQ guidance (TNRCC, 2001). Given a surface soil EPC of 491 mg/kg for 2,4,6-TNT and a NOAEL-based EEQ of 21.8, the NOAEL-based EcoPRG is 23 mg/kg.
- American Woodcock: Given a surface soil EPC of 491 mg/kg and a NOAEL-EEQ of 402, the NOAEL-based EcoPRG is 1.2 mg/kg. Given a surface soil EPC of 491 mg/kg and a LOAEL-EEQ of 15.6, the LOAEL-based EcoPRG is 31 mg/kg.
- Red-Tailed Hawk: Given a surface soil EPC of 491 mg/kg and a NOAEL-EEQ of 95.2, the NOAEL-based EcoPRG is 5.2 mg/kg. Given a surface soil EPC of 491 mg/kg and a LOAEL-EEQ of 3.7, the LOAEL-based EcoPRG is 133 mg/kg.

Dioxin. As five receptors had EEQs above 1 (**Table 15-9**), food web-based EcoPRGs are necessary for each receptor separately, except as noted below for the Raccoon (Louisiana Black Bear).

- Deer Mouse: Given a surface soil EPC of 7.33E-5 mg/kg and a NOAEL-EEQ of 75.7, the NOAEL-based EcoPRG is 9.7E-7 mg/kg. Given a surface soil EPC of

7.33E-5 mg/kg and a LOAEL-EEQ of 7.57, the LOAEL-based EcoPRG is 9.7E-6 mg/kg.

- Short-Tailed Shrew: Given a total soil EPC of 3.4E-5 mg/kg and a NOAEL-EEQ of 81.8, the NOAEL-based EcoPRG is 4.2E-7 mg/kg. Given a total soil EPC of 3.4E-5 mg/kg and a LOAEL-EEQ of 8.18, the LOAEL-based EcoPRG is 4.2E-6 mg/kg.

- Raccoon: Given a surface soil EPC of 7.33E-5 mg/kg and a NOAEL-EEQ of 12.5, the NOAEL-based EcoPRG is 5.9E-6 mg/kg. Given a surface soil EPC of 7.33E-5 mg/kg and a LOAEL-EEQ of 1.25, the LOAEL-based EcoPRG is 5.9E-5 mg/kg.

- Raccoon (Louisiana Black Bear): As this receptor is a surrogate for a listed threatened or endangered species (the Louisiana black bear), EcoPRGs may only be calculated based on the NOAEL, per TCEQ guidance (TNRCC, 2001). Given a surface soil EPC of 7.33E-5 mg/kg for dioxin and a NOAEL-based EEQ of 1.76, the NOAEL-based EcoPRG is 4.2E-5 mg/kg.

- American Woodcock: Given a surface soil EPC of 7.33E-5 mg/kg and a NOAEL-EEQ of 14.4, the NOAEL-based EcoPRG is 5.1E-6 mg/kg. Given a surface soil EPC of 7.33E-5 mg/kg and a LOAEL-EEQ of 1.44, the LOAEL-based EcoPRG is 5.1E-5 mg/kg.

15.7.2 Sediment

COPEC NOAEL and LOAEL concentrations can be estimated using EPCs and EEQs from the refined food chain models (**Appendix O** and **Table 15-10**). As discussed in **Section 15.1**, there are two final COPECs in the Goose Prairie Creek, Harrison Bayou, and/or Central Creek watersheds that require the calculation of food web-based EcoPRGs: mercury and thallium. These calculations are presented in the following subsections. Note that silver is not included in this subsection as this COPEC is a direct contact hazard, not a food chain hazard (**Table 15-10**).

Mercury. As only the Bank Swallow had an EEQ above 1 (**Table 15-10**), food web-based EcoPRGs are necessary for this receptor.

- Bank Swallow: Given a sediment EPC of 0.265 mg/kg and a NOAEL-EEQ of 1.42, the NOAEL-based EcoPRG is 0.19 mg/kg. Given a sediment EPC of 0.265 mg/kg and a LOAEL-EEQ of 0.142, the LOAEL-based EcoPRG is 1.9 mg/kg.

Thallium. As two receptors in three different watersheds had EEQs above 1 (**Table 15-10**), food web-based EcoPRGs are necessary for each receptor separately, except as noted below for the Raccoon (Louisiana Black Bear).

- Raccoon (Goose Prairie Creek Watershed): Given a sediment EPC of 0.702 mg/kg and a NOAEL-EEQ of 3.44, the NOAEL-based EcoPRG is 0.20 mg/kg. Given a

sediment EPC of 0.702 mg/kg and a LOAEL-EEQ of 0.344, the LOAEL-based EcoPRG is 2.0 mg/kg.

- Raccoon (Harrison Bayou Watershed): Given a sediment EPC of 0.60 mg/kg and a NOAEL-EEQ of 2.93, the NOAEL-based EcoPRG is 0.20 mg/kg. Given a sediment EPC of 0.60 mg/kg and a LOAEL-EEQ of 0.293, the LOAEL-based EcoPRG is 2.0 mg/kg.

- Raccoon (Central Creek Watershed): Given a sediment EPC of 0.71 mg/kg and a NOAEL-EEQ of 3.48, the NOAEL-based EcoPRG is 0.20 mg/kg. Given a sediment EPC of 0.71 mg/kg and a LOAEL-EEQ of 0.348, the LOAEL-based EcoPRG is 2.0 mg/kg.

- Raccoon (Louisiana Black Bear) (Goose Prairie Creek Watershed): As this receptor is a surrogate for a listed threatened or endangered species (the Louisiana black bear), EcoPRGs may only be calculated based on the NOAEL, per TCEQ guidance (TNRCC, 2001). Given a sediment EPC of 0.702 mg/kg for thallium and a NOAEL-based EEQ of 1.93, the NOAEL-based EcoPRG is 0.36 mg/kg.

- Raccoon (Louisiana Black Bear) (Harrison Bayou Watershed): As this receptor is a surrogate for a listed threatened or endangered species (the Louisiana black bear), EcoPRGs may only be calculated based on the NOAEL, per TCEQ guidance (TNRCC, 2001). Given a sediment EPC of 0.60 mg/kg for thallium and a NOAEL-based EEQ of 1.65, the NOAEL-based EcoPRG is 0.36 mg/kg.

It should be noted that there is considerable uncertainty associated with the Raccoon and Raccoon (Louisiana Black Bear) EEQs and calculated EcoPRGs for thallium. These uncertainties relate to the sediment-to-aquatic invertebrate bioaccumulation pathway and to background issues (**Section 15.8.2**).

Based on the results of the sediment toxicity tests and the weight of evidence discussion (**Sections 15.2** and **15.6**), the lead NOAEL and LOAEL concentrations for direct contact survival toxicity are estimated to be 246 and 352 mg/kg, respectively. The lead NOAEL and LOAEL concentrations for direct contact growth toxicity are estimated to be 191 and 246 mg/kg, respectively.

15.8 Uncertainty Analysis

A number of important uncertainties are associated with the BERA. These are discussed in the following subsections.

15.8.1 Sediment Toxicity

Sediment toxicity tests were conducted with sediment samples collected from areas of the site that are usually inundated, but because of prolonged drought conditions, were devoid of water at the time of sampling. In order to conduct the toxicity tests, it was necessary to re-hydrate the

sediment samples in the laboratory. The fact that the samples were dry for an extended period of time in situ and then re-hydrated in the laboratory introduces a significant level of uncertainty to the results of the sediment toxicity tests. In **Section 14.2.6** it was suggested that under normal saturated sediment conditions, levels of AVS would be much greater at LHAAP than during the drought conditions present in the fall of 2006 because the anoxic conditions necessary for the formation and retention of sulfides in the sediment only occur when surface water overlies the sediment. Greater levels of AVS in sediment would be expected to result in much lower metals bioavailability, and therefore reduced sediment toxicity to sensitive benthic invertebrates (however, as discussed in **Section 14.2.6**, there may be a brief time window after flooding and before AVS generation when benthic infauna may be subjected to higher metals toxicity). The magnitude of toxicity reduction due to the presence of elevated AVS during normal (non-drought) conditions is not known, however, it could be significant. Stagnant bottom water of Goose Prairie Creek Cove (Caddo Lake) would be expected to be anoxic during extended periods of the year, thereby resulting in the generation of AVS. Thus, the finding of sediment toxicity in the cove, likely related to elevated concentrations of lead (**Section 14.2.5**), may be atypical and primarily related to the desiccated condition of the sediment that resulted from the drought conditions occurring prior to, and during, the BERA sediment sampling. It should also be noted that during drought conditions there would be no benthic organisms present in the sediment, and therefore, no toxicity. In other words, the same ambient conditions (i.e., lack of overlying water) that would result in higher potential of toxicity to the benthic invertebrate community due to the absence of AVS also precludes the presence of the benthic invertebrate community, which typically require saturated sediments covered by water.

Another source of uncertainty associated with the sediment toxicity evaluation involves the changeouts of overlying water that were performed by the analytical laboratory twice per day for two days to stabilize the test condition pH (see **Section 14.2**). Although water changeouts are allowed as part of the standard toxicity testing methodology, the re-hydration of the sediment samples and subsequent water removal may have reduced COPEC mass in the sediment by eliminating suspended particles, and/or any COPEC that had solubilized or partitioned into the water column from the sediment.

As described in **Section 14.2**, overlying water with the standard toxicity test hardness of 88 mg/L was used for the Lake sediments rather than water with hardness that was more typical of waters in the LHAAP vicinity, which are much softer. The use of the harder water was done to buffer the pH fluctuations that were observed during the test preparation for the Lake sediments. However, there is a positive correlation between hardness and the tendency of toxic metals to form insoluble precipitates that are not available for biological uptake by organisms. Therefore, increasing the hardness of the water in the Lake (cove) sediment chambers may have decreased observed toxicity compared to what would be expected under ambient conditions with softer

water. However, under ambient conditions it is expected that the lake sediment would also be typically covered with water, and under these conditions AVS would likely form and buffer at least some, if not all, of the higher toxicity expected from softer waters (see above). Therefore, the actual toxicity thresholds of the LHAAP sediments, especially the lake sediments, have some uncertainty.

15.8.2 Thallium Sediment EEQs

There is considerable uncertainty associated with the Raccoon and Raccoon (Louisiana Black Bear) thallium sediment EEQs and calculated EcoPRGs. The most significant uncertainty is due to the fact that the vast majority (i.e., 93 percent) of the estimated hazard for these two receptors is from the sediment-to-aquatic invertebrate bioaccumulation pathway, and a site-specific thallium BAF could not be developed for this pathway due to unusually elevated aquatic worm detection limits (**Section 14.2.3**). Because of this, the Tier 1 thallium BAF of 4.5 was used to estimate COPEC concentrations in aquatic invertebrates. However, this BAF of 4.5 is based on an assumption by USEPA (1999a) that thallium bioaccumulates in a similar fashion to other metals for which BAF data are available. The BAF is actually based on the average of six BAFs for other inorganic chemicals (USEPA, 1999a): cadmium, chromium, copper, lead, mercury, and zinc. All of these metals are known to be bioaccumulators in either sediment or soil (**Appendix A**). As thallium in not a known sediment bioaccumulator (**Appendix A**), this is an extremely conservative assumption. Surrogate inorganic BAFs were estimated from known values of other Tier 1 metals and presented in **Volume I**, **Table 7-23,** and were calculated as 2.1 and 0.42, respectively, for the Step 3 Tier 1 and Tier 2 SLERA. These surrogate BAFs were used for inorganics for which no BAFs were available in the literature (i.e., chloride, manganese, nitrate, sulfate, and vanadium). If the Tier 1 surrogate inorganic BAF was used, instead of the BAF of 4.5, the thallium EcoPRG would increase by a factor of approximately 2.1. Additionally, if the Tier 2 surrogate inorganic BAF was used, instead of the BAF of 4.5, the thallium EcoPRG would increase by a factor of approximately 11. A literature search was conducted to identify general invertebrate uptake information for thallium. There is little readily available general invertebrate uptake information for thallium. The *Guidance for Developing Ecological Soil Screening Levels* (USEPA, 2005) does not provide terrestrial invertebrate uptake data for thallium, although information is presented for 15 other metals. Borgmann et al. (1998) reports that uptake from sediment to *Hyalella* (an amphipod invertebrate) ranged from 0.47 to 1.44, and averaged 1.01, for Lake Ontario sediments. These thallium uptake values are also less than the surrogate sediment uptake value of 2.1 that was used in the BERA. If this average uptake value of 1.01 is used, the original estimated thallium EcoPRG of 0.36 mg/kg for sediment (**Section 16.1.2**) would increase by a factor of 4.4 (original BAF of 4.5 divided by new BAF of 1.01), to 1.6 mg/kg. As all LHAAP watershed thallium EPCs are below 1.6 mg/kg (see **Section 16.1.4**), no further action for thallium in sediment is recommended.

A second important uncertainty is whether or not thallium in sediment at LHAAP is background-related. Based on information presented in Attachment 3 of **Appendix F** (**Volume I**), two of the 55 Central Creek sediment samples analyzed for thallium had detectable concentrations of 1.74 and 4.11 mg/kg. None of the 28 background samples had detectable thallium concentrations; however, the reporting limits in the background samples ranged from 1.3 to 22 mg/kg, with a mean of 8.2 mg/kg. These reporting limits are much higher than those for Central Creek, which were generally close to 1 mg/kg. Thallium concentrations observed in the Central Creek samples would thus be non-detect in the background samples based on these differences in reporting limits. Two of the 41 Harrison Bayou samples analyzed for thallium had detectable concentrations of 1.6 and 1.83 mg/kg. These concentrations were only slightly above their respective reporting limits. The Harrison Bayou reporting limits averaged 0.9 mg/kg, and were again much lower than the reporting limits from the background study. Thallium concentrations observed in the Harrison Bayou samples would thus also be non-detect in the background samples based on these differences in reporting limits. Finally, the average background reporting limit of 8.2 mg/kg was higher than the average Goose Prairie Creek sample reporting limit of 3.4 mg/kg. This information, plus geochemical evaluation results for Goose Prairie Creek (Attachment 3 of **Appendix F** in **Volume I**) strongly suggest that thallium in sediment is related to background. However, without background data with similar reporting limits to on-site data, whether thallium is background-related remains an uncertainty.

15.8.3 Interpretation of EEQs

The EEQs calculated for the refined BERA food chain model carry the same uncertainties as those previously generated during Step 3, and as discussed in **Section 8.10** (**Volume I**). These uncertainties must be clearly understood during the interpretation of the BERA results at the risk management stage. The most important consideration is that even after site-specific data are used in the food chain model, EEQs can only suggest that there is a potential adverse hazard for ecological receptors; an EEQ greater than one does not necessarily mean that ecological receptors have been or will be adversely impacted. General site observations, in addition to field studies such as the RSA effort, have not documented a paucity of ecological receptors at the Installation. If EEQs were an accurate reflection of hazard to ecological systems, it would be expected that populations would be significantly reduced at the Installation, since EEQs greater than 1 were identified by the BERA food chain model (Tannenbaum et al., 2003a).

15.8.4 North Cove Sediment Lead

As noted in **Section 14.2.5**, site-specific aquatic toxicity test results indicate that lead in the north Goose Prairie Creek Cove area of Caddo Lake may be the causative agent for the reduced survival and growth observed in aquatic invertebrates. However, it is important to consider that north cove sediment samples were placed along a transect that was directly in line with a duck blind that was located on the western edge of the cove (see **Section 15.2.5** for additional

information on this issue). These sample locations were historical locations determined in the past by the USACE and previous contractors to have elevated lead concentrations. Therefore, at least some of the lead in these samples could very well be from weathered lead shot associated with past hunting events rather than the result of historical site activities.

15.8.5 Estimation of EcoPRGs for COPECs with Regression-Based Uptake Factors

There is some uncertainty associated with the EcoPRGs estimated for those COPECs that utilize soil-to-terrestrial invertebrate, soil-to-plant, and/or sediment-to-aquatic invertebrate BAFs derived from a regression equation that is dependent on the concentration in the medium of concern. This is because the original EPC used to estimate the receptor EEQ is not linearly related to the COPEC BAF. It is possible that the EcoPRGs estimated in **Section 15.7** underestimate ecological hazard due to the fact that most BAF regression equations predict increased bioaccumulation at lower concentrations compared with higher concentrations. However, the potential impact of this uncertainty is considered to be relatively low, especially given the conservative assumptions retained in the food chain modeling and EEQ approach.

15.8.6 Surface Water Monitoring Discussion

Several preliminary COPECs in surface water (i.e., aluminum, cadmium, copper, iron, and lead) were determined to be background-related (**Section 15.6**) and no EcoPRGs for surface water were considered. Subsequent sampling for lead in surface water in Goose Prairie Creek determined that lead was indeed background related (**Section 10.3.6.1; Appendix F-1, Volume I**). However, as the determination of background COPECs in surface water is associated with some uncertainty (**Volume I**, **Section 10.4**, **Appendix F**, and **Appendix I**), risk managers may consider surface water monitoring for these four remaining COPECs, especially in the Goose Prairie Creek, Central Creek, and Harrison Bayou watersheds.

15.8.7 Evaluation of Additional Samples Collected at Longhorn

The data set that was used as the basis of most analyses in this Step 3/BERA ("BERA dataset") is presented in **Tables 6-2** through **6-12** in **Volume I** of this report, and represents all the samples collected at the Installation at the time the Step 3/BERA effort was initiated. The latest date of sample collection for the BERA dataset was September 9, 2003. However, environmental investigations have been ongoing at LHAAP during the development of the Step 3/BERA report, and additional environmental data have been obtained from investigative sampling efforts since September 9, 2003. Some of these additional samples have already been accounted for and incorporated into the Step 3/BERA decision-making process, notably:

- Surface water and sediment samples collected in September, 2004 as part of a "Data Gaps" study were evaluated during Step 3 by comparing concentrations detected in those samples to concentrations in the Step 3/BERA dataset (see **Section 8.14** and **Appendix G** in **Volume I** of this report).

- Additional soil samples collected in February, 2006 from the Pistol Range, located in the Waste Sub-Area were used to modify the EPC for lead in the BERA food chain model (**Section 15.1**).
- An elevated concentration of mercury in sediment at sample location 49SD65 was noted during the COPEC refinement step (see **Section 10.2.7.1** in **Volume I**) and used as a reason to retain mercury as a final COPEC in sediment.

However, other environmental investigations at the Installation resulted in the collection of additional samples that have not been evaluated in the Step 3/BERA. To identify these samples, all analytical data in samples collected from soil, surface water, and sediment since September 9, 2003 were queried in the project database. Samples already evaluated in the ERA (including the samples described in the first two bullets of the preceding paragraph) and samples that are not appropriate for use (e.g., soil samples deeper than 3 feet bgs) were eliminated so that only ecologically relevant samples that have not been included in the ecological investigation to date were selected. The query identified 145 soil samples in the Industrial Sub-Area, and two soil samples in both the Low Impact Sub-Area and Waste Sub-Area. Several sediment samples were also identified, including four from the Goose Prairie Creek watershed and three from the Central Creek watershed. Some surface water samples were identified, but were affiliated with quarterly USACE water quality sampling programs, and not considered appropriate for further risk assessment evaluation. Most of the Industrial Sub-Area soil samples and the two samples from the other sub-areas were collected as part of an investigation of sumps near known process facilities at Longhorn (also known as the "Site 35/36" investigation). The remaining samples were collected over the past few years primarily to confirm/delineate known or suspected areas of contamination. As such, nearly all of the samples in the post-BERA dataset are biased samples that were collected near areas with intense historical use in the Production Area of Longhorn.

An evaluation of the post-BERA data and a discussion regarding impacts, if any, the data would have on the results and conclusions of the Step 3/BERA report, is provided in the following sections. A summary of chemicals and concentration ranges detected in the post-BERA dataset for each sub-area or watershed was developed. The mean and maximum concentrations of all detected chemicals were then compared with the BERA dataset. All chemicals in the post-BERA dataset whose mean or maximum concentrations exceeded the BERA dataset and chemicals that were detected in the post-BERA dataset but were not detected in the BERA dataset, were carried forward for further evaluation and analysis to determine if they would change conclusions of the risk assessment. Because the primary goal of this exercise was to determine if ecological hazards were potentially underestimated in the Step 3/BERA report due to the omission of the post-BERA data, it was assumed that chemical analytical results that were generally lower than the BERA dataset (as reflected by the comparison of means and MDCs) were relatively innocuous, and would not impact the conclusions of the risk assessment.

After the post-BERA dataset evaluation was completed, USFWS personnel brought to Shaw's attention that an additional USFWS sampling program had recently been conducted at LHAAP (USFWS, 2005). Thirty-two surface soil locations were sampled in the Production Area, which includes the portion of the Industrial Sub-Area that was most heavily involved in munitions manufacturing and rocket testing. Analytes included metals, PCBs, perchlorate, and pesticides. The data from this study were not transferred to Shaw, and were therefore not included in the BERA or post-BERA dataset evaluation. However, overall concentrations of chemicals detected in surface soil were low, and the report states "In comparison to available ecological screening criteria, none of the detected surficial soil contaminant concentrations were at levels likely to adversely affect ecological resources." Therefore, although the omission of these data is regrettable, the results indicate that no change in BERA conclusions is necessary.

15.8.7.1 Evaluation of Post-BERA Soil Data

Additional soil samples for all three sub-areas (Industrial, Low Impact, and Waste) were collected after the BERA dataset was frozen, and are discussed in the following paragraphs.

Industrial Sub-Area

Table 15-13 presents a summary of the post-BERA data results for samples collected in the Industrial Sub-Area. Chemicals whose mean or maximum concentrations exceeded those in the BERA dataset, or that were not detected in the BERA dataset, are presented in **Table 15-14**. Seventeen chemicals had higher MDCs and 36 chemicals had higher means in the post-BERA dataset than in the BERA dataset. Additionally, 18 chemicals were detected in the post-BERA dataset that were not detected in the BERA dataset. 95% UCLs were calculated for all of these chemicals, and compared to ESVs. Only two chemicals, MCPP and heptachlor epoxide, would have been added as initial COPECs using a total, combined dataset (i.e., BERA plus post-BERA data) in the Step 3 COPEC screening step (**Table 15-14**). All other chemicals would have the same decision in the COPEC screen if the post-BERA data were incorporated, i.e., the selection of initial COPECs would not change). Both MCPP and heptachlor epoxide would be selected as initial COPECs because they are bioaccumulative compounds. Although the HQ_{screen} value for MCPP was elevated (37), this chemical was only detected in one out of 152 samples in the Industrial Sub-Area. Therefore, MCPP is not a relevant chemical for ecological exposure because it was detected so infrequently. The HQ_{screen} value for heptachlor epoxide was below 1 for the combined data set (0.1). Furthermore, its detection frequency did not exceed 5 percent in the combined dataset. Therefore, heptachlor epoxide is not of concern for ecological exposure because its concentrations are below conservative benchmarks, and it was detected infrequently.

95% UCLs for chemicals that were selected as COPECs using both the original BERA dataset and the combined dataset were further evaluated. Chemicals that had UCLs that were more than 10 percent higher than the UCLs that were used during previous food chain modeling efforts

were re-evaluated to ensure that the higher exposure concentrations reflected by the combined data set do not affect ERA conclusions. Six chemicals had UCLs that were at least 10 percent higher in the combined dataset compared with the original BERA dataset: Lead (+ 38%), mercury (+ 478%), zinc (+ 11%), alpha-chlordane (+ 3060%), gamma-chlordane (+ 4022%), and heptachlor (+ 400%). Because most of the post-BERA samples were collected from areas adjacent to Production sites, the substantially higher concentrations of pesticides in these samples is not unexpected due to the maintenance that was required to limit nuisance plant and animal species in these areas. Zinc was identified as a final COPEC in soil in this sub-area, so the new UCL was entered into the refined food chain model used in the BERA. None of the terrestrial ecological receptors resulted in a soil exposure EEQ greater than 1 for zinc exposure. UCLs for the lead, mercury, alpha-chlordane, gamma-chlordane, and heptachlor based on the combined dataset were entered into the Step 3 food chain models. All terrestrial receptors had EEQs less than 1 for exposure to these chemicals.

Even though mercury was not determined to be of concern for ecological receptors, the considerable change in the mercury EPC warrants additional discussion. The nearly five-fold increase in the EPC is due to the inclusion of a detection of 778 mg/kg at sample location 49SD65. This sample result was noted in the COPEC refinement discussion during Step 3 (see **Section 10.2.7.1** in **Volume I**), where it was originally classified as a sediment sample. However, this sample was collected from a very shallow, grassy area where a drainage ditch was believed to exist adjacent to a laboratory building at Site 49. No ditch is present in this area, though, and no aquatic habitat features (e.g., standing or running water, hydrophilic vegetation, benthic communities, etc.) exist at this sample location. Therefore, this sample was re-classified as a soil sample and included in the Industrial Sub-Area soil evaluation. Concern of a large mercury source area in the vicinity of sample 49SD65 is reduced when adjacent sample results are taken into account. **Figure 15-1** shows the concentrations of mercury in surrounding soil and sediment samples. Two soil samples just to the west of 49SD65 (49SB32 and 49SS47) had somewhat elevated concentrations of mercury (84.2 mg/kg and 3.76 mg/kg, respectively), and one sample to the east (49SB17) also had a mercury concentration that exceeded 1 mg/kg (2.12 mg/kg). All other samples in the vicinity were non-detect, or had trace levels of mercury. If a polygon is drawn around these sample locations, excluding other adjacent sample locations, the area affected by elevated mercury is approximately 0.3 hectares (ha), which is smaller than the home range for all terrestrial ecological receptors evaluated in the BERA except the Deer Mouse. If the average concentration of the three soil sample locations (778, 84.2, and 3.76 mg/kg) within this area is used as the representative mercury concentration in soil and entered into the BERA food chain model, the resulting Deer Mouse EEQ is 0.09. Therefore, mercury does not appear to be problematic for terrestrial exposure. The two sediment sample locations to the north/northeast of LHAAP-49 that flow into Goose Prairie Creek were non-detect for mercury.

The three sediment samples collected from the southern edge of the site had trace levels of mercury. Therefore, mercury does not appear to be problematic for aquatic exposure.

It is concluded that the inclusion of the post-BERA samples does not affect ERA recommendations for soil in the Industrial Sub-Area.

Low Impact Sub-Area

Table 15-15 presents a summary of the post-BERA data results for samples collected in the Low Impact Sub-Area. Chemicals whose mean or maximum concentrations exceeded those in the BERA dataset, or that were not detected in the BERA dataset, are presented in **Table 15-16**. One chemical had a higher MDC and six chemicals had higher means in the post-BERA dataset than in the original BERA dataset. One chemical (thallium) was detected in the post-BERA dataset, but not in the BERA dataset. 95% UCLs were calculated for these chemicals, and compared to ESVs. The COPEC selection decision did not change for any chemical using the combined dataset (i.e., BERA plus post-BERA data) in the Step 3 COPEC screening step (**Table 15-16**).

95% UCLs for chemicals that were selected as COPECs using both the original BERA and the combined datasets were calculated. No chemicals had UCLs that were more than 10 percent higher than the UCLs that were used during previous food chain modeling efforts. Thus, the impact of the addition of the post-BERA samples on the risk assessment results are considered inconsequential.

It is concluded that the inclusion of the post-BERA samples does not affect ecological risk recommendations for soil in the Low Impact Sub-Area.

Waste Sub-Area

Table 15-17 presents a summary of the post-BERA data results for samples collected in the Waste Sub-Area. Chemicals whose mean or maximum concentrations exceeded those in the BERA dataset, or that were not detected in the BERA dataset, are presented in **Table 15-18**. Two chemicals had higher MDCs and eight chemicals had higher means in the post-BERA dataset than in the BERA dataset. No chemicals were detected in the post-BERA dataset that were not detected in the BERA dataset. 95% UCLs were calculated for all of these chemicals, and compared to ESVs. The COPEC selection decision did not change for any chemical using a total, combined dataset (i.e., BERA plus post-BERA data) in the Step 3 COPEC screening step (**Table 15-18**).

95% UCLs for chemicals that were selected as COPECs using both the original BERA and the combined datasets were calculated. Chemicals that had UCLs that were more than 10 percent higher than the UCLs that were used during previous food chain modeling efforts were re-

evaluated to ensure that the higher exposure concentrations reflected by the combined data set do not affect ERA conclusions. Three chemicals had higher UCLs in the combined dataset compared with the BERA dataset: copper (+ 10.5%), iron (+ 32%), and vanadium (+ 10.6%). None of these chemicals were previously identified as final COPECs in soil in this sub-area, so the new UCL for each chemical was entered into the Step 3 food chain models. Based on the new UCLs for both iron and copper, all terrestrial receptors had EEQs less than 1. For vanadium, the Short-Tailed Shrew had an EEQ of 2.94 based on the combined UCL. The previous EEQ for this receptor using the BERA dataset was also above 1, however (EEQ = 2.67). However, vanadium was eliminated as a final COPEC during Step 3 because it was determined to be background-related (see **Section 10.1.10.2** in **Volume I**).

Post-BERA Soil Data Summary

It is concluded that the inclusion of the post-BERA samples does not affect ecological risk recommendations for soil in the Waste Sub-Area.

15.8.7.2 Evaluation of Post-BERA Sediment

Additional sediment samples for Goose Prairie Creek and Central Creek were collected after the BERA dataset was frozen, and are discussed in the following paragraphs.

Goose Prairie Creek Watershed

Table 15-19 presents a summary of the post-BERA data results for samples collected in the Goose Prairie Creek watershed. Samples were only analyzed for lead and mercury. Neither the MDC nor the mean for lead or mercury were higher in the post-BERA dataset than in the BERA dataset (**Table 15-20**). Therefore, no further evaluation for Goose Prairie Creek sediment is necessary.

Central Creek Watershed

Table 15-21 presents a summary of the post-BERA data results for samples collected in the Central Creek watershed. Samples were only analyzed for nitroaromatic compounds. Four nitroaromatics were detected in sediment samples in the post-BERA dataset. None had been detected in sediment previously (**Table 15-22**). Although the HQ_{screen} values for all chemicals except for 2-amino-4,6,-DNT were elevated, the chemicals would not be selected as COPECs due to their very low frequency of detection (i.e., less than 3 % for all chemicals). However, it should be noted that sample location 29SD46 had extremely elevated concentrations of all four nitroaromatics detected (e.g., TNT = 26,000 mg/kg). This sample was collected from a former outfall ditch at the northeast end of the TNT Cooling Water Drain Line (South) in Site 29. **Figure 15-2** provides the concentrations of all soil and sediment sample concentrations of TNT and its breakdown products (2,4-DNT and 2,6-DNT) in samples near location 29SD46. A sediment sample from location 29SD30, which is in the same ditch approximately 100 feet

northeast (downgradient) of sample 29SD46, was non-detect for TNT and its breakdown products. However, three samples further downgradient had detectable-- but comparably much lower-- concentrations of nitrotoluenes (29SD13: 51 mg/kg TNT; GPS-12: 6.21 mg/kg TNT; 29SB15: 110 mg/kg TNT, 6.2 mg/kg 2,4-DNT). TNT and its breakdown products were non-detect in 29SD29, the furthest downgradient ditch sample leading off of the site. Therefore, it is unlikely that nitrotoluenes are being transported off site, and potentially into Central Creek. Finally, one soil sample directly to the north of 29SD46 (29SD45) had a trace amount of TNT (0.41 mg/kg).

The TNT concentrations in the ditch samples 29SD13 and 29SB15 exceed the soil screening value of 30 mg/kg, and the 2,4-DNT detection at 29SB15 exceeds the soil screening value of 1.28 mg/kg, as well. If a polygon is drawn around the sample locations with detected concentrations of nitrotoluenes, extending approximately half-way to adjacent sample locations that were non-detect, the area affected by elevated nitrotoluenes is approximately 2.3 ha, which is smaller than the home range for all terrestrial ecological receptors evaluated in the BERA except the Deer Mouse and the Short-Tailed Shrew. If the average concentrations of the dry sediment/soil samples within this area are used as the representative TNT, 2,4-DNT, and 2,6-DNT concentrations in soil and entered into the BERA food chain model, the resulting Deer Mouse and Short-Tailed Shrew EEQs exceed a value of 1 (e.g., TNT EEQs of 550 and 860 for these two receptors, respectively). Therefore, it may be appropriate to apply ecological cleanup goals derived in the Waste Sub-Area for these three chemicals to this nitrotoluene hotspot in LHAAP-29 for the protection of small-range mammalian receptors, as recommended in the BERA.

Because these chemicals were not identified as initial COPECs previously, and would not be included even after the addition of the post-BERA samples to the database due to low frequency of detection and lack of bioaccumulation potential, an evaluation of how the elevated concentrations in sample location 29SD46 would impact food chain model results was not performed. However, the three chemicals with elevated COPEC concentrations in this sample that had HQ_{screen} values greater than 1 (i.e., TNT, 2,4-DNT, and 2,6-DNT) were all considered final COPECs in soil in the Waste Sub-Area. Because the ditch where sample 29SD46 was collected is typically dry, it is recommended that ecological clean-up options developed for soil in the Waste Sub-Area also focus on sediment and soil in and near this ditch.

Post-BERA Sediment Data Summary

It is concluded that the inclusion of the post-BERA samples does not affect ecological risk recommendations for sediment in the Central Creek watershed. However, very high nitroaromatic concentrations were detected in one sample location (29SD46). It is thus

recommended that soil clean-up options for TNT, 2,4-DNT, and 2,6-DNT in the Waste Sub-Area be considered applicable to this sediment sample location.

15.8.8 Potential Impacts to Plants and Soil Invertebrates

As discussed in **Section 11.2** (**Volume I**), and **Section 15.3**, an assessment endpoint was developed based on the protection of plants and soil invertebrates. However, it was agreed by the Longhorn stakeholders that EcoPRGs would not be developed based on the protection of these organisms, and no Risk Questions were developed or hypotheses tested to specifically address concerns for these base of the food chain organisms. **Sections 7.1.1.1** through **7.1.1.3** provide comparisons of concentrations detected in soil in the Industrial, Low Impact, and Waste Sub-Areas, respectively, to benchmarks protective of earthworms and plants. The following exceedances were noted:

Industrial Sub-Area

- Earthworm Benchmark Exceedances: mercury
- Plant Benchmark Exceedances: aluminum, chromium, mercury, selenium, vanadium, and zinc

Low Impact Sub-Area

- Earthworm Benchmark Exceedances: None
- Plant Benchmark Exceedances: chromium, manganese, vanadium, and zinc

Waste Sub-Area

- Earthworm Benchmark Exceedances: barium and TNT
- Plant Benchmark Exceedances: aluminum, barium, chromium, lead, vanadium, zinc, and TNT

Therefore, there is some uncertainty regarding the potential impacts of these chemicals to plants and terrestrial invertebrates. As noted in previous portions of the report, although formal vegetation surveys have not been conducted, no areas of stressed vegetation have been noted by field biologists at the Installation. Additionally, populations of higher trophic-level receptors that rely upon plants and terrestrial invertebrates as a food source (e.g., small mammals) appear to be well established at the Installation. During the soil-earthworm uptake study that was conducted as part of the BERA, it was noted that mean survival of earthworms from on-site samples was actually greater than the laboratory control of 94 percent (**Appendix N**). Because the BERA sample locations were preferentially placed in areas of highest contamination (as

identified from historical sample results), this observation provides strong evidence that toxicity to earthworms (or other terrestrial invertebrates) is not a concern at LHAAP.

Table 15-1
BERA Wildlife EEQs for Food Chain Receptors With EEQs > 1, Industrial Sub-Area/Goose Prairie Creek Watershed

Table 15-2
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Industrial Sub-Area/Central Creek Watershed

Table 15-3
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Goose Prairie Creek Watershed

Table 15-4
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Central Creek Watershed

Table 15-5
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Harrison Bayou Watershed

Table 15-6
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Low Impact Sub-Area/Saunders Branch Watershed

Table 15-7
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Waste Sub-Area/Central Creek Watershed

Table 15-8
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1, Waste Sub-Area/Harrison Bayou Watershed

Table 15-9
EEQs for Final COPECs Associated with Soil Exposure, Final BERA Food Chain Model Results

Table 15-10
EEQs for Final COPECs Associated with Sediment Exposure, Final BERA Food Chain Model Results

Table 15-11
Sample Locations Used to Determine Small Mammal Exposure Conditions

Table 15-12
Soil Concentrations Representative of Small Mammals Evaluated in the RSA Study

Table 15-13
Summary of Post-BERA Soil Data for Industrial Sub Area

Table 15-14
Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Total Soil: Industrial Sub-Area

Table 15-15
Summary of Post-BERA Soil Data for Low Impact Sub-Area

Table 15-16
Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Total Soil: Low Impact Sub-Area

Table 15-17
Summary of Post-BERA Soil Data for Waste Sub-Area

Table 15-18
Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Total Soil: Waste Sub-Area

Table 15-19
Summary of Post-BERA Sediment Data for Industrial Sub Area

Table 15-20
Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Sediment: Goose Prairie Creek Watershed

Table 15-21
Summary of Post-BERA Soil Data for Industrial Sub Area

Table 15-22
Comparison of Concentrations Between the BERA Dataset and Post-BERA Dataset, Sediment: Central Creek Watershed

Table 15-1
BERA Wildlife EEQs for Food Chain Receptors With EEQs > 1
Industrial Sub-Area/Goose Prairie Creek Watershed

Final COPEC	Raccoon		Raccoon (Louisiana Black Bear)		River Otter		Bank Swallow		American Woodcock		Belted Kingfisher	
	Tier 1		*Tier 1*		*Tier 1*		*Tier 1*		*Tier 1*		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Cadmium	5.42E-02	5.42E-03	3.11E-02	3.11E-03	3.76E-03	3.76E-04	1.27E-01	9.23E-03	9.69E-02	7.03E-03	5.30E-02	3.84E-03
Chromium (trivalent)	1.16E-04	1.16E-05	6.23E-05	6.23E-06	1.75E-06	1.75E-07	1.63E-03	3.26E-04	2.76E-01	5.52E-02	0.00E+00	0.00E+00
Chromium (hexavalent)	1.38E-03	3.44E-04	7.38E-04	1.84E-04	2.07E-05	5.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	1.19E-01	1.19E-02	3.89E-02	3.89E-03	2.52E-02	2.52E-03	8.89E-01	8.89E-02	**2.38E+00**	2.38E-01	5.95E-01	1.98E-01
Mercury (methyl)	1.41E-01	8.47E-02	6.60E-02	3.96E-02	1.43E-02	8.57E-03	**1.42E+00**	1.42E-01	0.00E+00	0.00E+00	8.31E-01	8.31E-02
Perchlorate	8.89E-02	2.96E-02	5.20E-02	1.73E-02	5.67E-05	1.89E-05	3.00E-04	1.50E-04	8.54E-03	4.27E-03	0.00E+00	0.00E+00
Silver	5.07E-03	**8.50E+01**	2.85E-03	9.51E-04	5.34E-04	1.78E-04	9.47E-02	9.47E-03	0.00E+00	0.00E+00	4.19E-02	4.19E-03
Thallium	**1.26E+01**	**1.26E+00**	**7.36E+00**	7.36E-01	**5.31E+01**	**5.31E+00**	3.90E-01	1.30E-01	4.86E-04	1.62E-04	**9.62E+00**	**3.21E+00**
Zinc	5.53E-02	2.77E-02	3.16E-02	1.58E-02	4.34E-02	2.17E-02	**2.11E+00**	2.33E-01	3.79E-01	4.20E-02	**4.60E+00**	5.10E-01

Notes:
COPECs and receptors with all EEQs = 0 or "not available" (NA) due to missing toxicity values are not presented.
EEQs equal to or above 1.0 are bolded.

Table 15-2
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Industrial Sub-Area/Central Creek Watershed

Final COPEC	Raccoon		Raccoon (Louisiana Black Bear)	
	Tier 1		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL
Cadmium	6.61E-02	6.61E-03	3.81E-02	3.81E-03
Chromium (trivalent)	9.72E-02	1.16E-05	5.20E-02	6.23E-06
Chromium (hexavalent)	1.38E-03	1.65E-06	7.38E-04	8.84E-07
Perchlorate	8.89E-02	2.96E-02	5.20E-02	1.73E-02
Thallium	3.48E+00	3.48E-01	1.96E+00	1.96E-01
Zinc	2.78E-02	1.39E-02	1.57E-02	7.85E-03

Notes:

COPECs and receptors with all EEQs = 0 or "not available" (NA) due to missing
Toxicity values are not presented. EEQs equal to or above 1.0 are bolded.

Table 15-3
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Low Impact Sub-Area/Goose Prairie Creek Watershed

Final COPEC	Raccoon		Raccoon (Louisiana Black Bear)		River Otter		Bank Swallow		Belted Kingfisher	
	Tier 1		*Tier 1*		*Tier 1*		*Tier 1*		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Lead	1.19E-01	1.19E-02	3.89E-02	3.89E-03	2.52E-02	2.52E-03	8.89E-01	8.89E-02	5.95E-01	1.98E-01
Mercury (methyl)	1.41E-01	8.47E-02	6.60E-02	3.96E-02	1.43E-02	8.57E-03	**1.42E+00**	1.42E-01	8.31E-01	8.31E-02
Silver	5.07E-03	1.69E-03	2.85E-03	9.51E-04	5.34E-04	1.78E-04	9.47E-02	9.47E-03	4.19E-02	4.19E-03
Thallium	**1.26E+01**	**1.26E+00**	**7.36E+00**	7.36E-01	**5.31E+01**	**5.31E+00**	3.90E-01	1.30E-01	**9.62E+00**	**3.21E+00**

Notes:
COPECs and receptors with all EEQs = 0 or "not available" (NA) due to missing toxicity values are not presented.
EEQs equal to or above 1.0 are bolded.

Table 15-4
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Low Impact Sub-Area/Central Creek Watershed

Final COPEC	Raccoon		Raccoon (Louisiana Black Bear)	
	Tier 1		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL
Thallium	3.48E+00	3.48E-01	1.96E+00	1.96E-01

Notes:

COPECs and receptors with all EEQs = 0 or "not available" (NA) due to missing

Toxicity values are not presented. EEQs equal to or above 1.0 are bolded.

Table 15-5
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Low Impact Sub-Area/Harrison Bayou Watershed

Final COPEC	Raccoon		Raccoon (Louisiana Black Bear)		River Otter		Belted Kingfisher	
	Tier 1		*Tier 1*		*Tier 1*		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
Thallium	**7.01E+00**	7.01E-01	**4.06E+00**	4.06E-01	**4.58E+01**	**4.58E+00**	**4.34E+00**	**1.45E+00**

Notes:

COPECs and receptors with all EEQs = 0 or "not available" (NA) due to missing toxicity values, are not presented.

EEQs equal to or above 1.0 are bolded.

Table 15-6
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Low Impact Sub-Area/Saunders Branch Watershed

Final COPEC	Deer Mouse		Short-tailed Shrew		Muskrat	
	Tier 1		*Tier 1*		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
NO FINAL COPECs IN THE LOW IMPACT SUB-AREA OR SAUNDERS BRANCH WATERSHED						

Table 15-7
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Waste Sub-Area/Central Creek Watershed

Final COPEC	Deer Mouse		Raccoon		Raccoon (Louisiana Black Bear)		Short-tailed Shrew		Red Fox		Muskrat	
	Tier 1		*Tier 1*		*Tier 1*		*Tier 1*		*Tier 1*		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
2,3,7,8-TCDD TEQ	**7.57E+01**	**7.57E+00**	**1.91E+01**	**1.91E+00**	**2.71E+00**	2.71E-01	**8.18E+01**	**8.18E+00**	8.60E-01	8.60E-02	6.74E-02	6.74E-03
2,4,6-Trinitrotoluene	**8.20E+01**	**5.46E+01**	**4.32E+01**	**2.88E+01**	**5.58E+00**	**3.72E+00**	**7.55E+01**	**5.03E+01**	**5.12E+01**	**3.41E+01**	**5.76E+00**	**3.84E+00**
2,4-Dinitrotoluene	8.21E-01	1.09E-01	5.49E-01	7.32E-02	7.68E-02	1.02E-02	**1.05E+01**	**1.40E+00**	**2.29E+01**	**3.05E+00**	1.25E-01	1.67E-02
2,6-Dinitrotoluene	**1.54E+00**	5.12E-01	9.51E-01	3.17E-01	1.33E-01	4.42E-02	**3.51E+00**	**1.17E+00**	**2.99E+00**	9.98E-01	2.09E-01	6.95E-02
Barium	**7.18E+00**	**1.85E+00**	**5.80E+00**	**1.49E+00**	7.73E-01	1.99E-01	**1.67E+00**	4.31E-01	5.28E-01	1.36E-01	**2.49E+00**	6.41E-01
Cadmium	7.75E-02	7.75E-03	6.91E-02	6.91E-03	9.61E-03	9.61E-04	1.51E-01	1.51E-02	2.19E-02	2.19E-03	3.65E-02	3.65E-03
Chromium (trivalent)	1.45E-04	1.45E-05	1.03E-04	1.03E-05	1.33E-05	1.33E-06	9.89E-05	9.89E-06	7.71E-05	7.71E-06	2.04E-05	2.04E-06
Chromium (hexavalent)	1.71E-03	4.28E-04	1.22E-03	3.04E-04	1.58E-04	3.93E-05	1.17E-03	2.92E-04	9.14E-04	2.28E-04	2.41E-04	6.02E-05
Lead	8.85E-02	8.85E-03	7.69E-02	7.69E-03	5.72E-03	5.72E-04	3.02E-01	3.02E-02	2.78E-02	2.78E-03	4.48E-03	4.48E-04
Thallium	0.00E+00	0.00E+00	**3.48E+00**	3.48E-01	4.74E-01	4.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-01	6.63E-02
Additive COPEC Groups:												
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT):	**8.43E+01**	**5.53E+01**	**4.47E+01**	**2.92E+01**	**5.78E+00**	**3.77E+00**	**8.95E+01**	**5.29E+01**	**7.71E+01**	**3.82E+01**	**6.10E+00**	**3.93E+00**

Notes are provided on the last page of this table.

Table 15-7
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Waste Sub-Area/Central Creek Watershed

Final COPEC	River Otter		Townsend's Big-Eared Bat		Bank Swallow		American Woodcock		Belted Kingfisher		Red-tailed Hawk	
	Tier 1		*Tier 1*		*Tier 1*		*Tier 1*		*Tier 1*		*Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
2,3,7,8-TCDD TEQ	**3.20E+01**	**3.20E+00**	9.97E-03	9.97E-04	**1.14E+00**	1.14E-01	**1.44E+01**	**1.44E+00**	**1.84E+01**	**1.84E+00**	6.04E-01	6.04E-02
2,4,6-Trinitrotoluene	**2.41E+00**	**1.61E+00**	**2.18E+01**	**1.45E+01**	**1.19E+01**	4.64E-01	**4.02E+02**	**1.56E+01**	0.00E+00	0.00E+00	**9.52E+01**	**3.70E+00**
2,4-Dinitrotoluene	6.04E-03	8.06E-04	4.74E-01	6.32E-02	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	1.18E-02	3.94E-03	7.90E-01	2.63E-01	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1.11E-01	2.86E-02	**4.02E+00**	**1.03E+00**	**1.24E+00**	6.16E-01	6.89E-01	3.44E-01	5.45E-01	2.72E-01	3.36E-02	1.68E-02
Cadmium	6.66E-02	6.66E-03	1.21E-02	1.21E-03	1.34E-01	9.69E-03	1.07E-01	7.76E-03	3.98E-01	2.88E-02	1.53E-02	1.11E-03
Chromium (trivalent)	1.65E-06	1.65E-07	7.71E-05	7.71E-06	1.44E-03	2.88E-04	2.44E-01	4.88E-02	0.00E+00	0.00E+00	6.66E-02	1.33E-02
Chromium (hexavalent)	1.95E-05	4.87E-06	9.14E-04	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	1.52E-02	1.52E-03	1.68E-02	1.68E-03	1.49E-02	1.49E-03	**2.38E+00**	2.38E-01	2.47E-01	8.24E-02	2.97E-02	9.89E-03
Thallium	3.91E-01	3.91E-02	0.00E+00	0.00E+00	3.94E-01	1.31E-01	0.00E+00	0.00E+00	1.74E-01	5.81E-02	0.00E+00	0.00E+00
Additive COPEC Groups:												
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT):	**2.43E+00**	**1.61E+00**	**2.31E+01**	**1.49E+01**	**1.19E+01**	4.64E-01	**4.02E+02**	**1.56E+01**	0.00E+00	0.00E+00	**9.52E+01**	**3.70E+00**

Notes:

COPECs and receptors with all EEQs = 0 or "not available" (NA) due to missing toxicity values, are not presented.

EEQs equal to or above 1.0 are bolded.

Table 15-8
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Waste Sub-Area/Harrison Bayou Watershed

Final COPEC	Deer Mouse *Tier 1*		Raccoon *Tier 1*		Raccoon (Louisiana Black Bear) *Tier 1*		Short-tailed Shrew *Tier 1*		Red Fox *Tier 1*		Muskrat *Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
2,3,7,8-TCDD TEQ	7.57E+01	7.57E+00	1.88E+01	1.88E+00	2.66E+00	2.66E-01	8.18E+01	8.18E+00	8.60E-01	8.60E-02	1.05E-01	1.05E-02
2,4,6-Trinitrotoluene	8.20E+01	5.46E+01	4.32E+01	2.88E+01	5.58E+00	3.72E+00	7.55E+01	5.03E+01	5.12E+01	3.41E+01	5.76E+00	3.84E+00
2,4-Dinitrotoluene	8.21E-01	1.09E-01	5.49E-01	7.32E-02	7.68E-02	1.02E-02	1.05E+01	1.40E+00	2.29E+01	3.05E+00	1.25E-01	1.67E-02
2,6-Dinitrotoluene	1.54E+00	5.12E-01	9.51E-01	3.17E-01	1.33E-01	4.42E-02	3.51E+00	1.17E+00	2.99E+00	9.98E-01	2.09E-01	6.95E-02
Barium	7.18E+00	1.85E+00	6.89E+00	1.77E+00	9.22E-01	2.37E-01	1.67E+00	4.31E-01	5.28E-01	1.36E-01	4.16E+00	1.07E+00
Cadmium	7.67E-02	7.67E-03	3.59E-02	3.59E-03	4.95E-03	4.95E-04	1.51E-01	1.51E-02	2.17E-02	2.17E-03	2.05E-02	2.05E-03
Chromium (trivalent)	1.46E-04	1.46E-05	1.15E-04	1.15E-05	1.50E-05	1.50E-06	9.99E-05	9.99E-06	7.75E-05	7.75E-06	2.08E-05	2.08E-06
Chromium (hexavalent)	2.87E-03	7.17E-04	1.12E-02	2.80E-03	1.62E-03	4.03E-04	2.02E-03	5.05E-04	1.24E-03	3.09E-04	6.16E-04	1.54E-04
Lead	8.86E-02	8.86E-03	7.79E-02	7.79E-03	5.86E-03	5.86E-04	3.02E-01	3.02E-02	2.78E-02	2.78E-03	4.50E-03	4.50E-04
Thallium	3.06E-02	3.06E-03	7.01E+00	7.01E-01	9.81E-01	9.81E-02	2.24E-02	2.24E-03	8.62E-03	8.62E-04	5.68E-01	5.68E-02
Additive COPEC Groups:												
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT):	8.43E+01	5.53E+01	4.47E+01	2.92E+01	5.78E+00	3.77E+00	8.95E+01	5.29E+01	7.71E+01	3.82E+01	6.10E+00	3.93E+00

Notes are provided on the last page.

Table 15-8
BERA Wildlife EEQs for All Food Chain Receptors With EEQs > 1
Waste Sub-Area/Harrison Bayou Watershed

Final COPEC	River Otter *Tier 1*		Townsend's Big-Eared Bat *Tier 1*		Bank Swallow *Tier 1*		American Woodcock *Tier 1*		Belted Kingfisher *Tier 1*		Red-tailed Hawk *Tier 1*	
	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
2,3,7,8-TCDD TEQ	4.52E+01	4.52E+00	9.81E-03	9.81E-04	1.49E+00	1.49E-01	1.44E+01	1.44E+00	1.44E+01	1.44E+00	1.00E+00	4.69E-02
2,4,6-Trinitrotoluene	4.38E+00	2.92E+00	2.18E+01	1.45E+01	1.19E+01	4.64E-01	4.02E+02	1.56E+01	0.00E+00	0.00E+00	9.52E+01	3.70E+00
2,4-Dinitrotoluene	1.10E-02	1.46E-03	4.74E-01	6.32E-02	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	2.14E-02	7.14E-03	7.90E-01	2.63E-01	NA	NA	NA	NA	NA	NA	NA	NA
Barium	4.24E-01	1.09E-01	4.02E+00	1.03E+00	2.67E+00	1.33E+00	6.89E-01	3.44E-01	1.18E+00	5.88E-01	3.36E-02	1.68E-02
Cadmium	3.08E-03	3.08E-04	1.20E-02	1.20E-03	4.71E-02	3.42E-03	1.07E-01	7.75E-03	1.85E-02	1.34E-03	3.92E-03	2.84E-04
Chromium (trivalent)	1.32E-04	1.32E-05	7.74E-05	7.74E-06	4.48E-03	8.96E-04	2.45E-01	4.90E-02	1.55E+00	3.10E-01	1.18E-01	2.36E-02
Chromium (hexavalent)	1.08E-01	2.69E-02	1.14E-03	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	3.83E-02	3.83E-03	1.68E-02	1.68E-03	1.53E-02	1.53E-03	2.38E+00	2.38E-01	3.46E-01	1.15E-01	3.29E-02	1.10E-02
Thallium	4.58E+01	4.58E+00	5.98E-03	5.98E-04	3.32E-01	1.11E-01	2.16E-04	7.19E-05	4.34E+00	1.45E+00	1.39E-01	4.62E-02
Additive COPEC Groups:												
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT):	4.41E+00	2.93E+00	2.31E+01	1.49E+01	1.19E+01	4.64E-01	4.02E+02	1.56E+01	0.00E+00	0.00E+00	9.52E+01	3.70E+00

Notes:

COPECs and receptors with all EEQs = 0 or "not available" (NA) due to missing toxicity values, are not presented.

EEQs equal to or above 1.0 are bolded.

Table 15-9
EEQs for Final COPECs Associated with Soil Exposure
Final BERA Food Chain Model Results

Final COPEC	Medium	Sub-Area	Receptor	EEQ-NOAEL	EEQ-LOAEL
Metals					
Barium	Soil	Waste Sub-Area	DM	**7.18E+00**	**1.85E+00**
			STS	**1.67E+00**	4.31E-01
			RAC	**4.86E+00**	**1.25E+00**
			TBEB	**4.02E+00**	**1.03E+00**
			AW	6.89E-01	3.44E-01
Cadmium	Soil	Industrial Sub-Area	STS	1.69E-01	1.69E-02
		Waste Sub-Area	STS	1.51E-01	1.51E-02
Chromium (III)	Soil	Industrial Sub-Area	STS	1.08E-04	1.08E-05
			AW	2.76E-01	5.52E-02
		Waste Sub-Area	STS	9.89E-05	9.89E-06
			AW	2.44E-01	4.88E-02
Chromium (VI)	Soil	Industrial Sub-Area	STS	1.28E-03	3.20E-04
			AW	NA	NA
		Waste Sub-Area	STS	1.17E-03	2.92E-04
			AW	NA	NA
Lead	Soil	Waste Sub-Area	AW	**2.38E+00**	2.38E-01
Zinc	Soil	Industrial Sub-Area	AW	3.79E-01	4.19E-02
Perchlorate					
Perchlorate	Soil	Industrial Sub-Area	TBEB	2.09E-01	6.97E-02
Explosives					
2,4-DNT	Soil	Waste Sub-Area	DM	8.21E-01	1.09E-01
			STS	**1.05E+01**	**1.40E+00**
			RAC	5.49E-01	7.32E-02
			RF	**2.29E+01**	**3.05E+00**
2,6-DNT	Soil	Waste Sub-Area	DM	**1.54E+00**	5.12E-01
			STS	**3.51E+00**	**1.17E+00**
			RAC	9.51E-01	3.17E-01
			RF	**2.99E+00**	9.98E-01
2,4,6-TNT	Soil	Waste Sub-Area	DM	**8.20E+01**	**5.46E+01**
			STS	**7.55E+01**	**5.03E+01**
			RAC	**4.32E+01**	**2.88E+01**
			RAC (LBB)	**5.58E+00**	**3.72E+00**
			RF	**5.12E+01**	**3.41E+01**
			TBEB	**2.18E+01**	**1.45E+01**
			AW	**4.02E+02**	**1.56E+01**
			RTH	**9.52E+01**	**3.70E+00**
Dioxin					
2,3,7,8-TCDD TEQ	Soil	Waste Sub-Area	DM	**7.57E+01**	**7.57E+00**
			STS	**8.18E+01**	**8.18E+00**
			RAC	**1.25E+01**	**1.25E+00**
			RAC (LBB)	**1.76E+00**	1.76E-01
			AW	**1.44E+01**	**1.44E+00**

Notes:

Shaded cells indicate that the EEQ exceeds 1.

Receptors: AW = American Woodcock; DM = Deer Mouse; RAC = Raccoon; RAC (LBB) = Raccoon (Louisiana Black Bear); RF = Red Fox; RTH = Red-Tailed Hawk; STS = Short-tailed Shrew; TBEB = Townsend's Big-Eared Bat.

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

EEQ = Ecological effects quotient

LOAEL = Lowest observed adverse effects level

NA = Not applicable; avian toxicity reference values (TRV) are not available for hexavalent chromium.

NOAEL = No observed adverse effects level

Table 15-10
EEQs for Final COPECs Associated with Sediment Exposure
Final BERA Food Chain Model Results

Final COPEC	Medium	Watershed	Receptor	EEQ-NOAEL	EEQ-LOAEL
Metals					
Lead	Sediment	Goose Prairie Creek	BS	8.73E-01	8.73E-02
Mercury	Sediment	Goose Prairie Creek	BS	1.42E+00	1.42E-01
			BK	8.31E-01	8.31E-02
Silver	Sediment	Goose Prairie Creek		NA	
Thallium	Sediment	Goose Prairie Creek	RAC	3.44E+00	3.44E-01
			RAC (LBB)	1.93E+00	1.93E-01
		Harrison Bayou	RAC	2.93E+00	2.93E-01
			RAC (LBB)	1.65E+00	1.65E-01
		Central Creek	RAC	3.48E+00	3.48E-01
			RAC (LBB)	4.74E-01	4.74E-02

Notes:

Shaded cells indicate that the EEQ exceeds 1.

Receptors: BK = Belted Kingfisher; BS = Bank Swallow; RAC = Raccoon; RAC (LBB) = Raccoon (Louisiana Black Bear).

BERA = Baseline ecological risk assessment

COPEC = Chemical of potential ecological concern

EEQ = Ecological effects quotient

LOAEL = Lowest observed adverse effects level

NA = Not applicable; silver was selected as a final COPEC only because of concerns regarding direct toxicity.

NOAEL = No observed adverse effects level

Table 15-11
Sample Locations Used to Determine Small Mammal Exposure Conditions

Sample Number	Location Code	Matrix	Start Depth (ft)	End Depth (ft)
Plant 2 Area				
46SB01(0-0.5)	46SB01	SS	0.0	0.5
46SB02(0-0.5)	46SB02	SS	0.0	0.5
46SB03(0-0.5)	46SB03	SS	0.0	0.5
46SB03(0-0.5)QC	46SB03	SS	0.0	0.5
46SD01-981109	46SD01	SED	0.0	0.0
46SD01-981203	46SD01	SED	0.0	0.0
46SD02-981109	46SD02	SED	0.0	0.0
46SD05-981110	46SD05	SED	0.0	0.0
46SD05QC	46SD05	SED	0.0	0.0
46SD06-981110	46SD06	SED	0.0	0.0
46SD06-981203	46SD06	SED	0.0	0.0
46SS01(0-0.5)-0	STEP-46SS01	SS	0.0	0.5
46SS02(0-0.5)-0	STEP-46SS02	SS	0.0	0.5
46SS02(00.5)020	STEP-46SS02	SS	0.0	0.5
46SS03(0-0.5)-0	STEP-46SS03	SS	0.0	0.5
46SS03(00.5)020	STEP-46SS03	SS	0.0	0.5
46SS04(0-0.5)-0	STEP-46SS04	SS	0.0	0.5
46SS05(0-0.5)-0	STEP-46SS05	SS	0.0	0.5
46SS06(0-0.5)-0	STEP-46SS06	SS	0.0	0.5
46SS07(0-0.5)-0	STEP-46SS07	SS	0.0	0.5
46SS07(00.5)020	STEP-46SS07	SS	0.0	0.5
46SS08(0-0.5)-0	STEP-46SS08	SS	0.0	0.5
46SS09(0-0.5)-0	STEP-46SS09	SS	0.0	0.5
46SS10(0-0.5)-0	STEP-46SS10	SS	0.0	0.5
46SS11(0-0.5)-0	STEP-46SS11	SS	0.0	0.5
46SS12(0-0.5)-0	STEP-46SS12	SS	0.0	0.5
46SS12(00.5)020	STEP-46SS12	SS	0.0	0.5
46SS13(0-0.5)-0	STEP-46SS13	SS	0.0	0.5
46SS14(0-0.5)-0	STEP-46SS14	SS	0.0	0.5
46SS15(0-0.5)-0	STEP-46SS15	SS	0.0	0.5
HOSB01(0-0.5)	HOSB01	SS	0.0	0.5
HOSB02(0-0.5)	HOSB02	SS	0.0	0.5
HOSB03(0-0.5)	HOSB03	SS	0.0	0.5
LH-S017-01 QC	LH-S017-01	SB	0.5	1.5
LH-S017-01_1	LH-S017-01	SB	0.5	1.5
LH-S017-02_1	LH-S017-02	SB	0.5	1.0
LH-S018-01_1	LH-S018-01	SB	0.5	1.1
LH-S02-01_1	LH-S02-01	SB	0.5	2.5
LH-S02-02_1	LH-S02-02	SB	0.5	2.5
LH-S021-02_1	LH-S021-02	SB	0.5	1.0
LH-S025-01 QC	LH-S025-01	SB	0.5	1.0
LH-S025-01_1	LH-S025-01	SB	0.5	1.0
LH-S025-02_1	LH-S025-02	SB	0.5	1.0
LH-S026-01 QC	LH-S026-01	SB	0.5	1.0
LH-S026-01_1	LH-S026-01	SB	0.5	1.0
LH-S026-02_1	LH-S026-02	SB	0.5	1.0
LH-S03-01_1	LH-S03-01	SS	0.0	2.0
LH-S03-02_1	LH-S03-02	SS	0.0	2.0
LH-S04-01_1	LH-S04-01	SS	0.0	2.0
LH-S04-02_1	LH-S04-02	SS	0.0	2.0
LH-S05-01_1	LH-S05-01	SS	0.0	2.0
LH-S05-02_1	LH-S05-02	SS	0.0	2.0
LH-S14-01_1	LH-S14-01	SB	0.5	1.5
LH-S14-02_1	LH-S14-02	SB	0.5	1.5
LH-S15-01_1	LH-S15-01	SB	0.5	1.5
LH-S15-02_1	LH-S15-02	SB	0.5	1.5
LH-S16-01_1	LH-S16-01	SB	0.5	1.5

Table 15-11
Sample Locations Used to Determine Small Mammal Exposure Conditions

Sample Number	Location Code	Matrix	Start Depth (ft)	End Depth (ft)
LH-S20-01_1	LH-S20-01	SB	0.5	2.0
LH-S20-02_1	LH-S20-02	SB	0.5	2.0
LH-S22-01_1	LH-S22-01	SB	0.5	2.5
LH-S22-02_1	LH-S22-02	SB	0.5	2.5
LH-S23-01 QC	LH-S23-01	SB	0.5	1.0
LH-S23-01_1	LH-S23-01	SB	0.5	1.0
LH-S24-01_1	LH-S24-01	SB	0.5	2.0
LH-S30-01_1	LH-S30-01	SB	0.5	2.5
LH-S31-01_1	LH-S31-01	SB	0.5	1.0
LH-S32-01_1	LH-S32-01	SB	0.5	2.5
LH-S33-01_1	LH-S33-01	SB	0.5	1.0
LH-S34-01_2	LH-S34-01	SB	0.5	1.5
LH-S35-01_1	LH-S35-01	SB	0.5	2.0
LH-S37-01_1	LH-S37-01	SB	0.5	1.0
LH-S38-01_1	LH-S38-01	SB	0.5	1.5
LH-S39-01 QC	LH-S39-01	SB	0.5	1.5
LH-S39-01_1	LH-S39-01	SB	0.5	1.5
LH-S40-01_1	LH-S40-01	SB	0.5	1.5
LH-S41-01_1	LH-S41-01	SB	0.5	1.5
LH-S42-01 QC	LH-S42-01	SB	0.5	1.5
LH-S42-01_1	LH-S42-01	SB	0.5	1.5
LH-S43-01_1	LH-S43-01	SB	0.5	1.0
MAM-P2212-SS	MAM-P2212-SS	SS	0.0	0.5
MAM-P2237-SS	MAM-P2237-SS	SS	0.0	0.5
MAM-P2268-SS	MAM-P2268-SS	SS	0.0	0.5
MAM-P2544-SS	MAM-P2544-SS	SS	0.0	0.5
MAM-P2571-SS	MAM-P2571-SS	SS	0.0	0.5
MAM-P2571-SS-QC	MAM-P2571-SS	SS	0.0	0.5
MAM-P2586-SS	MAM-P2586-SS	SS	0.0	0.5
Wetland Area				
CL231DUP	FWS-231	SS	0.0	0.5
CLNWR231	FWS-231	SS	0.0	0.5
MAM-W220-SS	MAM-W220-SS	SS	0.0	0.5
MAM-W220-SS-QC	MAM-W220-SS	SS	0.0	0.5
MAM-W230-SS	MAM-W230-SS	SS	0.0	0.5
MAM-W250-SS	MAM-W250-SS	SS	0.0	0.5
LH-S91-01_1	LH-S91-01	SB	0.5	1.0
LH-S91-02_1	LH-S91-02	SB	0.5	1.0
LH-S92-01 QC	LH-S92-01	SB	0.5	1.0
LH-S92-01_1	LH-S92-01	SB	0.5	1.0
LH-S92-02_1	LH-S92-02	SB	0.5	1.0
LH-S93-01_1	LH-S93-01	SB	0.5	1.0
LH-S93-02 _1	LH-S93-02	SB	0.5	1.0
Goose Prairie Creek Drainage Area				
CLNWR236	FWS-236	SS	0.0	0.5
CLNWR237	FWS-237	SS	0.0	0.5
CLNWR243	FWS-243	SS	0.0	0.5
MAM-GP150-SS	MAM-GP150-SS	SS	0.0	0.5

Notes:

Sample locations are shown on Figure 14-6.

SS = surface soil, SB = soil boring, SED = dry sediment.

These sample locations are associated with the small rodent trapping locations used in the RSA Study performed by USACHPPM (2006).

Table 15-12
Soil Concentrations Representative of Small Mammals Evaluated in the RSA Study

Exposure Point [a]	Chemical [b]	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	95% UCL
Plant 2 Area [c]								
Soil	Barium	1.50E+01	1.96E+03	mg/kg	LH-S02-01_1	45/55	4.65E+01 - 2.30E+02	3.00E+02
	Cadmium	1.00E-01 J	3.75E+01	mg/kg	LH-S24-01_1	5/55	4.90E-01 - 5.87E+00	2.14E+00
	Chromium	1.60E+00	1.14E+02	mg/kg	LH-S025-01_1	47/55	1.00E+00 - 1.65E+01	2.70E+01
	Lead	1.30E+00	3.80E+02 D	mg/kg	LH-S026-02_1	55/55	N/A	3.62E+01
	Zinc	4.45E+00	8.60E+02	mg/kg	46SD02-981109	55/55	N/A	1.27E+02
	2,4-DNT	ND	ND	mg/kg	NA	NA	N/A	NA
	2,6-DNT	ND	ND	mg/kg	NA	NA	N/A	NA
	TNT	ND	ND	mg/kg	NA	NA	N/A	NA
	Perchlorate	5.92E-02 nv	6.10E-02 U	mg/kg	46SS01(0-0.5)-0	2/24	4.76E-02 - 1.40E-01	4.83E-02
	TCDD TEQ [d]	5.67E-07	1.98E-05	mg/kg	MAM-P2586-SS	14/14	N/A	7.5758E-06
Wetland Area [c]								
Soil	Barium	7.64E+01	2.59E+02 nv	mg/kg	CLNWR231	9/9	N/A	1.71E+02
	Cadmium	1.62E-01 J	2.64E-01 nv	mg/kg	CLNWR231	3/9	1.00E+00 - 1.00E+00	5.68E-01
	Chromium	6.98E+00 nv	1.89E+01	mg/kg	LH-S92-02_1	9/9	N/A	1.52E+01
	Lead	6.60E+00	2.40E+01 JL	mg/kg	MAM-W250-SS	9/9	N/A	1.43E+01
	Zinc	2.02E+01	1.32E+02 J	mg/kg	MAM-W250-SS	9/9	N/A	Max (n≤5)
	2,4-DNT	3.28E-02 nv	3.28E-02 nv	mg/kg	CLNWR231	1/9	2.30E-01 - 3.30E-01	1.97E-01
	2,6-DNT	3.28E-02 nv	3.28E-02 nv	mg/kg	CLNWR231	1/9	2.30E-01 - 3.30E-01	1.96E-01
	TNT	ND	ND	mg/kg	NA	NA	N/A	NA
	Perchlorate	ND	ND	mg/kg	NA	NA	N/A	NA
	TCDD TEQ [d]	NA	NA	mg/kg	NA	NA	N/A	NA
Goose Prairie Creek Drainage Area [c]								
Soil	Barium	5.33E+01 nv	1.15E+02 nv	mg/kg	CLNWR237	4/4	N/A	Max (n≤5)
	Cadmium	2.50E-01 nv	2.69E-01 nv	mg/kg	CLNWR236	3/4	5.60E-01 - 5.60E-01	Max (n≤5)
	Chromium	7.28E+00 nv	3.53E+01 nv	mg/kg	CLNWR243	4/4	N/A	Max (n≤5)
	Lead	6.60E+00 nv	1.91E+01 nv	mg/kg	CLNWR237	4/4	N/A	Max (n≤5)
	Zinc	1.24E+01 nv	5.64E+01 nv	mg/kg	CLNWR243	4/4	N/A	Max (n≤5)
	2,4-DNT	3.11E-02 nv	3.42E-02 nv	mg/kg	CLNWR236	3/4	2.50E-01 - 2.50E-01	Max (n≤5)
	2,6-DNT	3.11E-02 nv	3.42E-02 nv	mg/kg	CLNWR236	3/4	2.50E-01 - 2.50E-01	Max (n≤5)
	TNT	ND	ND	mg/kg	NA	NA	N/A	NA
	Perchlorate	ND	ND	mg/kg	NA	NA	N/A	NA
	TCDD TEQ [d]	NA	NA	mg/kg	NA	NA	N/A	NA

Notes:

[a] Sample results from near surface soil and dry sediment used, see Table 15-11 for sample list.

[b] Chemicals presented are final COPECs selected for soil at LHAAP.

[c] Areas represent the three rodent sperm analysis (RSA) Study areas, see Figure 14-6 for details.

TCDD TEQ = 2,3,7,8-TCDD toxicity equivalent concentration.

Table 15-13
Summary of Post-BERA Soil Data for Industrial Sub Area

Chemical	Detection Frequency	Percent Hits	Range of Values, mg/kg: Detected Concentrations Minimum	Detected Concentrations Maximum	Reporting Limits Minimum	Reporting Limits Maximum	Mean mg/kg
Metals							
Aluminum	118 / 118	100	2420	22800	9.5	32.5	9.00E+03
Antimony	37 / 118	31	0.0549	8.55	0.102	1.2	1.92E-01
Arsenic	117 / 118	99	0.144	25.8	0.306	1.2	3.20E+00
Barium	118 / 118	100	24	1170	0.36	12	1.06E+02
Beryllium	118 / 118	100	0.128	1.21	0.29	0.813	5.16E-01
Cadmium	106 / 118	90	0.023	4.7	0.29	0.813	3.01E-01
Calcium	118 / 118	100	143	129000	7.2	755	5.60E+03
Chromium	118 / 118	100	5.92	267	0.72	1.63	2.14E+01
Cobalt	116 / 118	98	0.265	16.6	0.72	3	4.56E+00
Copper	117 / 118	99	1.17	269	0.72	1.8	1.14E+01
Iron	118 / 118	100	4640	107000	1.47	60	2.12E+04
Lead	146 / 146	100	2.49	5830	0.204	41.2	7.36E+01
Magnesium	118 / 118	100	130	4970	18	40.7	7.44E+02
Manganese	118 / 118	100	9.62	844	0.36	4.45	1.49E+02
Mercury	133 / 134	92	0.0101	778	0.00927	640	5.50E+00
Nickel	118 / 118	100	1.19	34.8	1.44	3.25	6.69E+00
Potassium	118 / 118	100	101	854	36	81.3	3.37E+02
Selenium	104 / 118	88	0.119	1.4	0.204	1.8	3.05E-01
Silver	17 / 129	13	0.222	161	1.4	8.03	5.16E+00
Sodium	118 / 118	100	8.23	875	18	60	8.34E+01
Thallium	116 / 118	98	0.0178	0.264	0.0204	0.155	6.58E-02
Vanadium	118 / 118	100	9.27	105	0.36	3	3.13E+01
Zinc	118 / 118	100	3.8	2310	0.72	8.59	8.18E+01
Herbicides							
MCPP	1 / 16	6	5.3	5.3	4.18	42	5.76E+00
Polychlorinated Biphenyls (PCBs)							
Aroclor 1254	1 / 3	33	0.153	0.153	0.0183	0.0188	5.72E-02
Perchlorate							
Perchlorate	26 / 89	29	0.00714	3.83	0.00985	0.234	1.41E-01

Table 15-13
Summary of Post-BERA Soil Data for Industrial Sub Area

Chemical	Detection Frequency	Percent Hits	Range of Values, mg/kg: Detected Concentrations Minimum	Detected Concentrations Maximum	Reporting Limits Minimum	Reporting Limits Maximum	Mean mg/kg
Nitroaromatics							
1,3,5-Trinitrobenzene	1 / 42	2	7.91	7.91	0.19	0.25	3.05E-01
1,3-Dinitrobenzene	1 / 42	2	6.13	6.13	0.19	0.25	2.63E-01
2,4,6-Trinitrotoluene	2 / 42	5	46	195	0.2	24.9	5.85E+00
2,4-Dinitrotoluene	1 / 42	2	82.1	82.1	0.19	2.49	2.07E+00
2-Amino-4,6-dinitrotoluene	1 / 42	2	2.6	2.6	0.19	0.26	1.83E-01
p-Nitrotoluene	1 / 42	2	2.92	2.92	0.19	0.25	1.86E-01
Tetryl	1 / 42	2	0.949	0.949	0.19	0.65	2.83E-01
Organochlorine Pesticides							
4,4'-DDE	1 / 16	6	0.00148	0.00148	0.00171	0.0173	1.65E-03
alpha-Chlordane	12 / 16	75	0.000813	2.11	0.00171	0.882	1.85E-01
gamma-CHLORDANE	12 / 16	75	0.00193	2.43	0.00171	0.882	2.09E-01
Heptachlor	5 / 16	31	0.00137	0.0107	0.00171	0.0173	2.16E-03
Heptachlor epoxide	9 / 16	56	0.000397	0.165	0.00171	0.0173	1.37E-02
Semivolatile Organic Compounds							
1,2-Dichlorobenzene	2 / 57	4	0.13	30	0.171	3.95	9.75E-01
Anthracene	1 / 62	2	0.115	0.115	0.171	3.95	4.35E-01
Benzo(a)anthracene	2 / 62	3	0.142	0.454	0.171	3.95	4.40E-01
Benzo(a)pyrene	1 / 62	2	1.14	1.14	0.171	3.95	4.50E-01
Benzo(b)fluoranthene	2 / 62	3	0.153	1.71	0.171	3.95	4.60E-01
Benzo(ghi)perylene	1 / 62	2	0.556	0.556	0.171	3.95	4.41E-01
Benzo(k)fluoranthene	2 / 62	3	0.147	1.56	0.171	3.95	4.58E-01
bis(2-Ethylhexyl)phthalate	2 / 60	3	0.107	0.181	0.171	3.54	4.03E-01
Butyl benzyl phthalate	1 / 62	2	0.148	0.148	0.171	3.95	4.36E-01
Chrysene	2 / 62	3	0.175	0.917	0.171	3.95	4.48E-01
Diethyl phthalate	3 / 62	5	0.17	0.356	0.171	3.95	4.44E-01
Dimethyl phthalate	1 / 62	2	2.7	2.7	0.171	3.95	4.63E-01
di-n-Butyl phthalate	1 / 62	2	0.114	0.114	0.171	3.95	4.35E-01
Fluoranthene	2 / 62	3	0.316	0.665	0.171	3.95	4.46E-01
Hexachloroethane	1 / 62	2	0.606	0.606	0.171	3.95	4.37E-01
Indeno(1,2,3-cd)pyrene	1 / 62	2	0.576	0.576	0.171	3.95	4.41E-01
Naphthalene	1 / 62	2	0.16	0.16	0.171	3.95	4.36E-01
Pentachlorophenol	2 / 78	3	0.00277	1.38	0.00418	19.7	1.73E+00
Pyrene	3 / 62	5	0.146	0.713	0.171	3.95	4.48E-01

Table 15-13
Summary of Post-BERA Soil Data for Industrial Sub Area

Chemical	Detection Frequency	Percent Hits	Range of Values, mg/kg Detected Concentrations Minimum	Detected Concentrations Maximum	Reporting Limits Minimum	Reporting Limits Maximum	Mean mg/kg
Volatile Organic Compounds							
1,1,1-Trichloroethane	3 / 59	5	0.0012	0.0197	0.00411	0.0137	3.11E-03
1,1-Dichloroethane	2 / 59	3	0.00333	0.0086	0.00411	0.0137	2.98E-03
1,1-Dichloroethene	2 / 59	3	0.00194	0.00265	0.00411	0.0137	2.86E-03
1,2,4-Trimethylbenzene	3 / 54	6	0.00349	0.155	0.00411	0.0113	5.96E-03
1,2-Dimethylbenzene (o-Xylene)	3 / 54	6	0.00178	0.013	0.00411	0.0113	2.98E-03
1,3,5-Trimethylbenzene	3 / 54	6	0.00135	0.024	0.00411	0.0113	3.24E-03
1,4-Dichlorobenzene	2 / 59	3	0.000806	0.000879	0.00411	0.0137	2.82E-03
2-Butanone	4 / 59	7	0.00582	0.0496	0.005	0.0274	6.14E-03
Acetone	15 / 59	25	0.004	0.232	0.005	1.06	2.21E-02
Benzene	3 / 59	5	0.0125	0.0731	0.00411	0.0137	4.55E-03
Carbon disulfide	1 / 59	2	0.000916	0.000916	0.00411	0.0137	2.85E-03
Chlorobenzene	1 / 59	2	0.00763	0.00763	0.00411	0.0137	2.91E-03
cis-1,2-Dichloroethene	2 / 59	3	0.00506	0.0376	0.00411	0.0137	3.50E-03
Ethylbenzene	3 / 59	5	0.0126	0.112	0.00411	0.0137	5.92E-03
Isopropylbenzene	3 / 59	5	0.00142	0.0346	0.00411	0.0137	3.44E-03
m,p-Xylenes	6 / 53	11	0.000771	0.0686	0.00411	0.0113	4.54E-03
Methylene chloride	8 / 54	15	0.0025	0.007	0.00411	0.0137	3.12E-03
n-BUTYLBENZENE	3 / 54	6	0.00169	0.0407	0.00411	0.0113	3.45E-03
n-PROPYLBENZENE	3 / 54	6	0.0038	0.103	0.00411	0.0113	4.86E-03
p-ISOPROPYLTOLUENE	5 / 54	9	0.000736	0.132	0.00411	0.0113	5.19E-03
sec-BUTYLBENZENE	3 / 54	6	0.000614	0.0157	0.00411	0.0113	2.92E-03
tert-BUTYLBENZENE	1 / 54	2	0.00364	0.00364	0.00411	0.0113	2.77E-03
Tetrachloroethene	1 / 59	2	0.00408	0.00408	0.00411	0.0137	2.90E-03
Toluene	12 / 59	20	0.000561	0.00668	0.00411	0.0137	2.72E-03
Trichloroethene	6 / 59	10	0.00143	0.0282	0.00411	0.0137	3.61E-03
Xylenes, Total	1 / 16	6	0.00088	0.00088	0.005	0.0137	3.09E-03

mg/kg = milligram per kilogram

Table 15-14
Comparison of Concentrations[a] Between the BERA Dataset and Post-BERA Dataset
Total Soil: Industrial Sub-Area

Chemical [b]	Detection Frequency: Original BERA Data	Detection Frequency: Post-BERA Data	Detection Frequency: Combined Data	Combined Percent Hits	Maximum Detected Concentration, mg/kg: Original BERA Data	Maximum Detected Concentration, mg/kg: Post-BERA Data	Mean Concentration, mg/kg: Original BERA Data	Mean Concentration, mg/kg: Post-BERA Data	95% UCL, mg/kg [b]: Original BERA Data	95% UCL, mg/kg [b]: Post-BERA Data	95% UCL, mg/kg [b]: Combined Data	ESV [c] mg/kg		TCEQ Bioaccumulative Compound?	HQ_{SCREEN} Based on Original BERA data [d]	COPEC Based on Original BERA data? [e,f]	HQ_{SCREEN} Based on Combined data [d]	COPEC Based on Combined Data? [e,f]
Inorganics																		
Aluminum	522 / 540	118 / 118	640 / 658	97	4.04E+04	2.28E+04	8.99E+03	**9.00E+03**	9.54E+03	9.57E+03	9.54E+03	NSV			NA	NA	NA	Yes
Chromium	630 / 655	118 / 118	748 / 773	97	1.94E+02	**2.67E+02**	1.76E+01	**2.14E+01**	1.88E+01	2.31E+01	1.93E+01	0.4		Yes	46.9	Yes	48.3	Yes
Iron	521 / 540	118 / 118	639 / 658	97	1.20E+05	1.07E+05	1.64E+04	**2.12E+04**	1.74E+04	2.32E+04	1.83E+04	200			86.9	Yes	91.5	Yes
Lead	645 / 653	145 / 145	790 / 798	99	1.74E+03	**5.83E+03**	3.99E+01	**7.28E+01**	4.75E+01	1.21E+02	6.53E+01	11		Yes	4.32	Yes	5.9	Yes
Mercury	144 / 654	133 / 144	277 / 798	35	1.05E+02	**7.78E+02**	2.65E-01	**5.50E+00**	5.89E-01	5.53E+00	3.40E+00	0.1		Yes	5.89	Yes	34.0	Yes
Silver	59 / 653	17 / 129	76 / 782	10	1.09E+02	**1.61E+02**	6.69E-01	**5.16E+00**	9.56E-01	7.76E+00	2.16E+00	2			0.48	No (a)	1.1	No (a)
Vanadium	205 / 205	118 / 118	323 / 323	100	7.59E+01	**1.05E+02**	2.48E+01	**3.13E+01**	2.60E+01	3.37E+01	2.84E+01	7.8			3.3	Yes	3.6	Yes
Zinc	539 / 543	118 / 118	657 / 661	99	2.58E+03	2.31E+03	5.34E+01	**8.18E+01**	6.16E+01	9.85E+01	6.85E+01	120		Yes	0.51	Yes	0.6	Yes
Nitroaromatics																		
1,3-Dinitrobenzene	1 / 270	1 / 42	2 / 312	1	8.30E-01	**6.13E+00**	1.19E-01	**2.63E-01**	1.18E-01	4.06E-01	1.54E-01	0.655			0.18	No (a)	0.2	No (a)
2,4-Dinitrotoluene	4 / 568	1 / 42	5 / 610	1	6.20E+00	**8.21E+01**	1.93E-01	**2.07E+00**	2.17E-01	4.02E+00	5.98E-01	1.28			0.17	No (a)	0.5	No (a)
p-Nitrotoluene	0 / 277	1 / 42	1 / 319	0.3	NA	2.92E+00	NA	1.86E-01	NA	2.53E-01	4.76E-01	NSV			NA	NA	NA	No (b)
Tetryl	0 / 231	1 / 42	1 / 273	0.4	NA	9.49E-01	NA	2.83E-01	NA	3.07E-01	5.57E-01	25	g		NA	NA	0.02	No (a)
Polychlorinated Biphenyls (PCBs)																		
Aroclor 1254	30 / 149	1 / 3	31 / 152	20	1.30E+00	1.53E-01	3.78E-02	**5.72E-02**	5.39E-02	NA	5.19E-02	40		Yes	0.001	Yes	0.001	Yes
Herbicides																		
MCPP	0 / 136	1 / 16	1 / 152	1	NA	5.30E+00	NA	5.76E+00	NA	8.36E+00	3.71E+00	0.1	h	Yes	NA	NA	37	Yes
Organochlorine Pesticides																		
alpha-Chlordane	16 / 71	12 / 16	28 / 87	32	4.70E-02	**2.11E+00**	1.34E-03	**1.85E-01**	2.60E-03	4.34E-01	8.23E-02	0.224		Yes	0.01	Yes	0.37	Yes
gamma-Chlordane	1 / 19	12 / 16	13 / 35	37	3.72E-02	**2.43E+00**	3.61E-03	**2.09E-01**	5.38E-03	5.01E-01	2.22E-01	0.224		Yes	0.02	Yes	0.99	Yes
Heptachlor	1 / 170	5 / 16	6 / 186	3	4.84E-04	**1.07E-02**	1.65E-04	**2.16E-03**	1.87E-04	3.23E-03	9.32E-04	0.00598		Yes	0.03	Yes	0.16	Yes
Heptachlor epoxide	0 / 170	9 / 16	9 / 186	5	NA	1.65E-01	NA	1.37E-02	NA	3.42E-02	1.45E-02	0.152		Yes	NA	NA	0.10	Yes
Semivolatile Organics																		
1,2-Dichlorobenzene	0 / 543	2 / 57	2 / 600	0.3	NA	3.00E+01	NA	9.75E-01	NA	2.02E+00	4.05E-01	2.96	i		NA	NA	0.1	No (a)
Anthracene	7 / 565	1 / 62	8 / 627	1	4.30E-01	1.15E-01	2.08E-01	**4.35E-01**	2.16E-01	5.25E-01	2.44E-01	1480			0.000	No (a)	0.0002	No (a)
Benzo(a)anthracene	19 / 565	2 / 62	21 / 627	3	2.30E+00	4.54E-01	2.01E-01	**4.40E-01**	2.43E-01	5.37E-01	2.70E-01	5.21			0.05	No (a)	0.1	No (a)
Benzo(a)pyrene	16 / 565	1 / 62	17 / 627	3	2.10E+00	1.14E+00	1.93E-01	**4.50E-01**	2.08E-01	5.38E-01	2.41E-01	1.52			0.14	No (a)	0.2	No (a)
Benzo(b)fluoranthene	28 / 565	2 / 62	30 / 627	5	4.70E+00	1.71E+00	2.52E-01	**4.60E-01**	2.81E-01	5.61E-01	3.10E-01	59.8			0.005	No (a)	0.005	No (a)
Benzo(ghi)perylene	15 / 565	1 / 62	16 / 627	3	1.30E+00	5.56E-01	2.93E-01	**4.41E-01**	3.44E-01	5.25E-01	3.58E-01	119			0.003	No (a)	0.003	No (a)
Benzo(k)fluoranthene	16 / 565	2 / 62	18 / 627	3	1.20E+00	**1.56E+00**	2.37E-01	**4.58E-01**	2.85E-01	5.57E-01	3.06E-01	148			0.002	No (a)	0.002	No (a)
bis(2-Ethylhexyl)phthalate	109 / 545	2 / 60	111 / 605	18	3.00E+00	1.07E-01	2.16E-01	**4.03E-01**	2.16E-01	5.08E-01	2.60E-01	0.925			0.23	No (a)	0.3	No (a)
Butyl benzyl phthalate	8 / 544	1 / 62	9 / 606	1	1.10E+00	1.48E-01	2.22E-01	**4.36E-01**	2.39E-01	5.27E-01	2.63E-01	0.239			1	No (a)	1.1	No (b)
Diethyl phthalate	21 / 545	3 / 62	24 / 607	4	5.98E-01	3.56E-01	2.05E-01	**4.44E-01**	2.25E-01	5.33E-01	2.55E-01	100			0.002	No (a)	0.003	No (a)
Dimethyl phthalate	2 / 545	1 / 62	3 / 607	0.5	1.68E+00	**2.70E+00**	2.17E-01	**4.63E-01**	2.47E-01	5.44E-01	2.83E-01	200			0.001	No (a)	0.001	No (a)
Fluoranthene	32 / 565	2 / 62	34 / 627	5	3.90E+00	6.65E-01	2.29E-01	**4.46E-01**	2.49E-01	5.53E-01	2.70E-01	122			0.002	No (a)	0.002	No (a)
Hexachloroethane	1 / 545	1 / 62	2 / 607	0.3	4.43E-02	**6.06E-01**	2.39E-01	**4.37E-01**	1.67E-02	5.12E-01	3.10E-01	0.596			0.03	No (a)	0.5	No (a)
Indeno(1,2,3-cd)pyrene	14 / 565	1 / 62	15 / 627	2	1.60E+00	5.76E-01	1.48E-02	**4.41E-01**	1.67E-02	5.21E-01	2.81E-01	109			0.0002	No (a)	0.003	No (a)
Naphthalene	6 / 565	1 / 62	7 / 627	1	3.91E+00	1.60E-01	2.09E-01	**4.36E-01**	2.17E-01	5.25E-01	2.46E-01	0.0994			2.18	No (b)	2.5	No (b)
Pentachlorophenol	0 / 533	2 / 78	2 / 611	0.3	NA	1.38E+00	NA	1.73E+00	NA	2.13E+00	1.14E+00	0.0018			NA	NA	636	No (b)
Pyrene	25 / 565	3 / 62	28 / 627	4	2.80E+00	7.13E-01	2.20E-01	**4.48E-01**	2.53E-01	5.42E-01	2.86E-01	78.5			0.003	No (a)	0.004	No (a)
Volatile Organics																		
1,1,1-Trichloroethane	3 / 482	3 / 59	6 / 541	1	3.20E-02	1.97E-02	2.73E-03	**3.11E-03**	2.98E-03	3.69E-03	3.02E-03	29.8			0.0001	No (a)	0.0001	No (a)
1,1-Dichloroethane	0 / 455	2 / 59	2 / 514	0.4	NA	8.60E-03	NA	2.98E-03	NA	3.18E-03	2.84E-03	20.1			NA	NA	0.0001	No (a)
1,1-Dichloroethene	1 / 482	2 / 59	3 / 541	1	2.00E-03	**2.65E-03**	9.63E-04	**2.86E-03**	1.19E-03	3.06E-03	2.45E-03	8.28			0.0001	No (a)	0.0003	No (a)
1,2,4-Trimethylbenzene	0 / 63	3 / 54	3 / 117	3	NA	1.55E-01	NA	5.96E-03	NA	1.11E-02	5.91E-03	0.1	j		NA	NA	0.06	No (a)
1,2-Dimethylbenzene (o-Xylene)	0 / 47	3 / 54	3 / 101	3	NA	1.30E-02	NA	2.98E-03	NA	3.33E-03	2.49E-03	10			NA	NA	0.0002	No (a)
1,3,5-Trimethylbenzene	0 / 63	3 / 54	3 / 117	3	NA	2.40E-02	NA	3.24E-03	NA	4.12E-03	3.39E-03	0.1	j		NA	NA	0.03	No (a)
1,4-Dichlorobenzene	0 / 64	2 / 59	2 / 123	2	NA	8.79E-04	NA	2.82E-03	NA	3.04E-03	5.64E-03	20	k		NA	NA	0.0003	No (a)
Benzene	2 / 482	3 / 59	5 / 541	1	1.30E-02	**7.31E-02**	2.66E-03	**4.55E-03**	2.83E-03	6.54E-03	3.15E-03	0.255			0.0111	No (a)	0.01	No (a)
Chlorobenzene	2 / 482	1 / 59	3 / 541	1	5.88E-02	7.63E-03	2.78E-03	**2.91E-03**	2.84E-03	3.03E-03	2.92E-03	40			0.0001	No (a)	0.0001	No (a)
cis-1,2-Dichloroethene	0 / 156	2 / 59	1 / 215	0.5	NA	3.76E-02	NA	3.50E-03	NA	4.23E-03	3.01E-03	0.784			NA	NA	0.004	No (a)
Ethylbenzene	1 / 482	3 / 59	4 / 541	1	2.00E-03	**1.12E-01**	6.88E-04	**5.92E-03**	7.85E-04	9.50E-03	6.81E-03	5.16			0.0002	No (a)	0.001	No (a)
Isopropylbenzene	0 / 63	3 / 59	3 / 122	2	NA	3.46E-02	NA	3.44E-03	NA	4.40E-03	3.58E-03	NSV			NA	NA	NA	No (b)
m,p-Xylenes	0 / 39	6 / 53	6 / 92	7	NA	6.86E-02	NA	4.54E-03	NA	6.72E-03	4.47E-03	10			NA	NA	0.0004	No (a)
n-BUTYLBENZENE	0 / 63	3 / 54	3 / 117	3	NA	4.07E-02	NA	3.45E-03	NA	4.87E-03	3.62E-03	0.1	j		NA	NA	0.04	No (a)
n-PROPYLBENZENE	0 / 63	3 / 54	3 / 117	3	NA	1.03E-01	NA	4.86E-03	NA	8.59E-03	4.86E-03	0.1	j		NA	NA	0.05	No (a)
p-Isopropyltoluene	3 / 63	5 / 54	4 / 117	3	3.20E-02	**1.32E-01**	3.68E-03	**5.19E-03**	3.24E-03	9.98E-03	6.12E-03	NSV			NA	No (b)	NA	No (b)
sec-BUTYLBENZENE	0 / 63	3 / 54	3 / 117	3	NA	1.57E-02	NA	2.92E-03	NA	3.35E-03	3.20E-03	0.1	j		NA	NA	0.03	No (a)
tert-BUTYLBENZENE	0 / 63	1 / 54	1 / 117	1	NA	3.64E-03	NA	2.77E-03	NA	2.86E-03	3.01E-03	0.1	j		NA	NA	0.03	No (a)
Xylenes, Total	3 / 447	1 / 16	4 / 463	1	9.97E-02	8.80E-04	3.01E-03	**3.09E-03**	3.24E-03	3.73E-03	3.22E-03	10			0.0003	No (a)	0.0003	No (a)

Bolded concentrations reflect higher concentrations in the Post-BERA dataset than the BERA dataset.

Table 15-14
Comparison of Concentrations[a] Between the BERA Dataset and Post-BERA Dataset
Total Soil: Industrial Sub-Area

Notes:

[a] Detection frequency, concentrations, and COPEC selection information for chemicals using the original BERA dataset can be found in Table 6-17 of the Volume I BERA report.

[b] Only chemicals whose maximum or mean concentrations were higher in the Post-BERA data compared with the original BERA dataset, or that were detected in the Post-BERA dataset but not in the original data, are included. Essential nutrients are not includ

[e] See Table 6-14, Volume I of the BERA unless noted otherwise.

[d] HQ_{screen} is calculated as the 95% UCL divided by the ecological screening value (ESV).

[e] No = Chemical is not chosen as a COPEC; Yes = Chemical is chosen as a COPEC.

[f] Rationale for exclusion of chemical as a COPEC:
(a) The screening concentration is less than the ESV.
(b) The detection frequency is less than 5 percent.

[g] Talmage, S.S., D.M. Opresko, C.J. Maxwell, C.J.E. Welsh, F.M. Cretella, P.H. Reno, and F.B. Daniel, 1999, Nitroaromatic Munition Compounds: Environmental Effects and Screening Values, **Rev. Environ. Contam. Toxicol.** 161:1-156, Springer-Verlag. Screening concentration used is the lowest of the Plant and Soil Invertebrate concentrations. Wildlife (shrew) values were not included as candidates for screening values. This is consistent with TCEQ's method of only using the Plant and Earthworm values to select their screening values.

[h] U.S. Environmental Protection Agency (EPA), 2001, Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment. Originally published November 1995. Website version last updated November 30, 2001: http://www.epa.gov/region4/waste/ots/eco Value for organochlorinated pesticides

[i] U.S. Environmental Protection Agency (EPA), 2003, *U.S. EPA Region 5 RCRA Ecological Screening Levels (ESL)*, Website version last updated August 22, 2003: http://www.epa.gov/reg5rcra/ca/edql.htm.

[j] U.S. Environmental Protection Agency (EPA), 2001, Supplemental Guidance to RAGS: Region 4 Bulletins, Ecological Risk Assessment. Originally published November 1995. Website version last updated November 30, 2001: http://www.epa.gov/region4/waste/ots/eco Value for monocyclic aromatic hydrocarbons.

[k] Texas Commission on Environmental Quality (TCEQ), 2005, *Guidance for Conducting Ecological Risk Assessments at Remediation Sites in Texas*, RG-263 (Revised).

BERA Baseline ecological risk assessment
COPEC constituent of potential ecological concern
HQ_{screen} screening-level hazard quotient
mg/kg milligrams per kilogram
NA not applicable
NSV No screening value
TCEQ Texas Commission on Environmental Quality

Table 15-15
Summary of Post-BERA Soil Data for Low Impact Sub-Area

Chemical	Detection Frequency	Percent Hits	Range of Values, mg/kg: Detected Concentrations Minimum	Detected Concentrations Maximum	Reporting Limits Minimum	Reporting Limits Maximum	Mean mg/kg
Inorganics							
Aluminum	2 / 2	100	12500	12700	17.6	18.3	1.26E+04
Antimony	1 / 2	50	0.094	0.094	0.121	0.122	7.73E-02
Arsenic	2 / 2	100	0.877	4.01	0.362	0.366	2.44E+00
Barium	2 / 2	100	60.8	118	0.439	0.458	8.94E+01
Beryllium	2 / 2	100	0.434	0.482	0.439	0.458	4.58E-01
Calcium	2 / 2	100	797	2880	8.78	9.15	1.84E+03
Chromium	2 / 2	100	11.4	11.6	0.878	0.915	1.15E+01
Cobalt	2 / 2	100	2.81	5.92	0.878	0.915	4.37E+00
Copper	2 / 2	100	2.83	2.9	0.878	0.915	2.87E+00
Iron	2 / 2	100	11000	13800	1.76	1.83	1.24E+04
Lead	2 / 2	100	6.64	24.6	0.242	0.244	1.56E+01
Magnesium	2 / 2	100	829	1010	22	22.9	9.20E+02
Manganese	2 / 2	100	49.9	88.5	0.439	0.458	6.92E+01
Mercury	1 / 2	50	0.0394	0.0394	0.288	0.293	9.17E-02
Nickel	2 / 2	100	4.41	5.72	1.76	1.83	5.07E+00
Potassium	2 / 2	100	379	491	43.9	45.8	4.35E+02
Selenium	1 / 2	50	0.357	0.357	0.242	0.244	2.39E-01
Sodium	2 / 2	100	39.3	239	22	22.9	1.39E+02
Thallium	2 / 2	100	0.0829	0.246	0.0242	0.0244	1.64E-01
Vanadium	2 / 2	100	23.9	25.2	0.439	0.458	2.46E+01
Zinc	2 / 2	100	18.5	25.5	0.878	0.915	2.20E+01

mg/kg = milligram per kilogram

Table 15-16
Comparison of Concentrations[a] Between the BERA Dataset and Post-BERA Dataset
Total Soil: Low Impact Sub-Area

Chemical [b]	Detection Frequency: Original BERA Data	Detection Frequency: Post-BERA Data	Detection Frequency: Combined Data	Combined Percent Hits	Maximum Detected Concentration, mg/kg: Original BERA Data	Maximum Detected Concentration, mg/kg: Post-BERA Data	Mean Concentration, mg/kg: Original BERA Data	Mean Concentration, mg/kg: Post-BERA Data	95% UCL, mg/kg [b]: Original BERA Data	95% UCL, mg/kg [b]: Post-BERA Data	95% UCL, mg/kg [b]: Combined Data	ESV mg/kg [c]	TCEQ Bioaccumulative Compound?	HQ_{SCREEN} Based on Original BERA data [d]	COPEC Based on Original BERA data? [e,f]	HQ_{SCREEN} Based on Combined data [d]	COPEC Based on Combined Data? [e,f]
Inorganics																	
Chromium	145 / 145	2 / 2	147 / 147	100	5.94E+01	1.16E+01	1.09E+01	**1.15E+01**	1.16E+01	NA	1.18E+01	0.4	Yes	29.1	Yes	29.5	Yes
Cobalt	3 / 17	2 / 2	5 / 19	26	6.91E+00	5.92E+00	3.31E+00	**4.37E+00**	4.23E+00	NA	4.21E+00	13		0.3	No (b)	0.3	No (a)
Iron	124 / 124	2 / 2	126 / 126	100	4.84E+04	1.38E+04	9.10E+03	**1.24E+04**	1.01E+04	NA	1.02E+04	200		50.3	Yes	51.2	Yes
Mercury	110 / 145	1 / 2	111 / 147	76	2.31E-01	3.94E-02	5.07E-02	**9.17E-02**	5.69E-02	NA	5.79E-02	0.1	Yes	0.6	Yes	0.6	Yes
Thallium	0 / 37	2 / 2	2 / 39	5	NA	**2.46E-01**	NA	**1.64E-01**	NA	NA	2.51E-01	2		NA	NA	0.1	No (a)
Vanadium	107 / 107	2 / 2	109 / 109	100	5.30E+01	2.52E+01	1.45E+01	**2.46E+01**	1.54E+01	NA	1.59E+01	7.8		2.0	Yes	2.0	Yes

Bolded concentrations reflect higher maximum and/or mean concentrations in the post-BERA set than the BERA dataset.

Notes:

[a] Detection frequency, concentrations, and COPEC selection information for chemicals using the original BERA dataset can be found in Table 6-18 of the Volume I BERA report.

[b] Only chemicals whose maximum or mean concentrations were higher in the Post-BERA data compared with the original BERA dataset, or that were detected in the Post-BERA dataset but not in the original data, are included. Essential nutrients are not includ

[e] See Table 6-14, Volume I of the BERA.

[d] HQ_{screen} is calculated as the 95% UCL divided by the ecological screening value (ESV). If the sample size was less than 10, the maximum detected concentration was used in place of the 95% UCL.

[e] No = Chemical is not chosen as a COPEC; Yes = Chemical is chosen as a COPEC.

[f] Rationale for exclusion of chemical as a COPEC:

(a) The screening concentration is less than the ESV.
(b) The detection frequency is less than 5 percent.

BERA Baseline ecological risk assessment
COPEC constituent of potential ecological concern
HQ_{screen} screening-level hazard quotient
mg/kg milligrams per kilogram
NA not applicable
NSV No screening value
TCEQ Texas Commission on Environmental Quality

Table 15-17
Summary of Post-BERA Soil Data for Waste Sub-Area

Chemical	Detection Frequency	Percent Hits	Range of Values, mg/kg: Detected Concentrations Minimum	Detected Concentrations Maximum	Reporting Limits Minimum	Reporting Limits Maximum	Mean mg/kg
Inorganics							
Aluminum	2 / 2	100	6740	9770	16.2	16.9	8.26E+03
Antimony	1 / 2	50	0.0793	0.0793	0.11	0.117	6.72E-02
Arsenic	2 / 2	100	5.6	6.9	0.331	0.35	6.25E+00
Barium	2 / 2	100	64.6	252	0.406	0.423	1.58E+02
Beryllium	2 / 2	100	0.422	0.526	0.406	0.423	4.74E-01
Cadmium	2 / 2	100	0.101	0.519	0.406	0.423	3.10E-01
Calcium	2 / 2	100	1920	3370	8.12	8.46	2.65E+03
Chromium	2 / 2	100	19.4	31.8	0.812	0.846	2.56E+01
Cobalt	2 / 2	100	2.6	6.8	0.812	0.846	4.70E+00
Copper	2 / 2	100	4.04	17.5	0.812	0.846	1.08E+01
Iron	2 / 2	100	24800	63800	1.69	8.12	4.43E+04
Lead	2 / 2	100	6.94	17.6	0.221	0.234	1.23E+01
Magnesium	2 / 2	100	563	1450	20.3	21.2	1.01E+03
Manganese	2 / 2	100	53.4	135	0.406	0.423	9.42E+01
Mercury	2 / 2	100	0.0263	0.0367	0.276	0.288	3.15E-02
Nickel	2 / 2	100	5.93	14.3	1.62	1.69	1.01E+01
Potassium	2 / 2	100	268	488	40.6	42.3	3.78E+02
Selenium	2 / 2	100	0.437	0.447	0.221	0.234	4.42E-01
Silver	1 / 2	50	0.242	0.242	1.62	1.69	5.44E-01
Sodium	2 / 2	100	27.2	32.6	20.3	21.2	2.99E+01
Thallium	2 / 2	100	0.0741	0.0782	0.0221	0.0234	7.62E-02
Vanadium	2 / 2	100	26.9	62.3	0.406	0.423	4.46E+01
Zinc	2 / 2	100	33.9	68.6	0.812	0.846	5.13E+01

mg/kg = milligram per kilogram

Table 15-18
Comparison of Concentrations[a] Between the BERA Dataset and Post-BERA Dataset
Total Soil: Waste Sub-Area

Chemical [b]	Detection Frequency: Original BERA Data	Detection Frequency: Post-BERA Data	Detection Frequency: Combined Data	Combined Percent Hits	Maximum Detected Concentration, mg/kg: Original BERA Data	Maximum Detected Concentration, mg/kg: Post-BERA Data	Mean Concentration, mg/kg: Original BERA Data	Mean Concentration, mg/kg: Post-BERA Data	95% UCL, mg/kg [b]: Original BERA Data	95% UCL, mg/kg [b]: Post-BERA Data	95% UCL, mg/kg [b]: Combined Data	ESV mg/kg [c]	TCEQ Bioaccumulative Compound?	HQ_{SCREEN} Based on Original BERA data [d]	COPEC Based on Original BERA data? [e,f]	HQ_{SCREEN} Based on Combined data [d]	COPEC Based on Combined Data? [e,f]
Inorganics																	
Aluminum	26 / 26	2 / 2	28 / 28	100	2.15E+04	9.77E+03	8.02E+03	**8.26E+03**	9.30E+03	NA	9.03E+03	NSV		NA	Yes	NA	Yes
Arsenic	90 / 103	2 / 2	92 / 105	88	1.61E+01	6.90E+00	3.19E+00	**6.25E+00**	3.53E+00	NA	3.66E+00	18		0.2	No(a)	0.2	No(a)
Chromium	103 / 103	2 / 2	105 / 105	100	5.96E+01	3.18E+01	1.57E+01	**2.56E+01**	1.72E+01	NA	1.75E+01	0.4	Yes	42.9	Yes	43.7	Yes
Copper	39 / 39	2 / 2	41 / 41	100	5.31E+01	1.75E+01	9.30E+00	**1.08E+01**	1.15E+01	NA	1.27E+01	61	Yes	0.2	Yes	0.2	Yes
Iron	26 / 26	2 / 2	28 / 28	100	2.60E+04	**6.38E+04**	1.27E+04	**4.43E+04**	1.42E+04	NA	1.88E+04	200		71.0	Yes	93.8	Yes
Nickel	94 / 98	2 / 2	96 / 100	96	3.40E+01	1.43E+01	7.73E+00	**1.01E+01**	8.42E+00	NA	8.69E+00	30	Yes	0.3	Yes	0.3	Yes
Vanadium	22 / 22	2 / 2	24 / 24	100	4.33E+01	**6.23E+01**	2.08E+01	**4.46E+01**	2.36E+01	NA	2.61E+01	7.8		3.0	Yes	3.3	Yes
Zinc	39 / 39	2 / 2	41 / 41	100	2.50E+02	6.86E+01	4.15E+01	**5.13E+01**	5.17E+01	NA	5.51E+01	120	Yes	0.4	Yes	0.5	Yes

Bolded concentrations reflect higher maximum and/or mean concentrations in the post-BERA set than the BERA dataset.

Notes:

[a] Detection frequency, concentrations, and COPEC selection information for chemicals using the original BERA dataset can be found in Table 6-19 of the Volume I BERA report.

[b] Only chemicals whose maximum or mean concentrations were higher in the Post-BERA data compared with the original BERA dataset, or that were detected in the Post-BERA dataset but not in the original data, are included. Essential nutrients are not includ

[e] See Table 6-14, Volume I of the BERA.

[d] HQ_{screen} is calculated as the 95% UCL divided by the ecological screening value (ESV). If the sample size was less than 10, the maximum detected concentration was used in place of the 95% UCL.

[e] No = Chemical is not chosen as a COPEC; Yes = Chemical is chosen as a COPEC.

[f] Rationale for exclusion of chemical as a COPEC:

(a) The screening concentration is less than the ESV.
(b) The detection frequency is less than 5 percent.

BERA Baseline ecological risk assessment
COPEC constituent of potential ecological concern
HQ_{screen} screening-level hazard quotient
mg/kg milligrams per kilogram
NA not applicable
NSV No screening value
TCEQ Texas Commission on Environmental Quality

Table 15-19
Summary of Post-BERA Sediment Data for Industrial Sub Area

Chemical	Detection Frequency	Percent Hits	Range of Values, mg/kg: Detected Concentrations Minimum	Detected Concentrations Maximum	Reporting Limits Minimum	Reporting Limits Maximum	Mean mg/kg
Inorganics							
Lead	3 / 3	100	21.4	57.4	1.09	1.46	3.57E+01
Mercury	1 / 1	100	0.075	0.075	0.429	0.429	7.50E-02

mg/kg = milligram per kilogram

Table 15-20
Comparison of Concentrations[a] Between the BERA Dataset and Post-BERA Dataset
Sediment: Goose Prairie Creek Watershed

Chemical [b]	Detection Frequency: Original BERA Data	Detection Frequency: Post-BERA Data	Detection Frequency: Combined Data	Combined Percent Hits	Maximum Detected Concentration, mg/kg: Original BERA Data	Maximum Detected Concentration, mg/kg: Post-BERA Data	Mean Concentration, mg/kg: Original BERA Data	Mean Concentration, mg/kg: Post-BERA Data	95% UCL, mg/kg [b]: Original BERA Data	95% UCL, mg/kg [b]: Post-BERA Data	95% UCL, mg/kg [b]: Combined Data	ESV [c] mg/kg	TCEQ Bioaccumulative Compound?	HQ_{SCREEN} Based on Original BERA Data [d]	COPEC Based on Original BERA Data? [e,f]	HQ_{SCREEN} Based on Combined Data [d]	COPEC Based on Combined Data? [e,f]
Inorganics																	
Lead	69 / 69	3 / 3	72 / 72	100	5.42E+02	5.74E+01	5.97E+01	3.57E+01									
Mercury	22 / 69	1 / 1	23 / 70	33	1.66E+00	7.50E-02	2.09E-01	NA [g]									
														NA [h]			
														NA [h]			

Bolded concentrations reflect higher concentrations in the post-BERA dataset than the BERA dataset.

Notes:

[a] Detection frequency, concentrations, and COPEC selection information for chemicals using the original BERA dataset can be found in Table 6-23 of the Volume I BERA report.

[b] Only chemicals whose maximum or mean concentrations were higher in the Post-BERA dataset compared with the original BERA dataset, or that were detected in the Post-BERA dataset but not in the original data, are included. Essential nutrients are not inc

[e] See Table 6-16, Volume I of the BERA unless noted otherwise.

[d] HQ_{screen} is calculated as the 95% UCL divided by the ecological screening value (ESV).

[e] No = Chemical is not chosen as a COPEC; Yes = Chemical is chosen as a COPEC.

[f] Rationale for exclusion of chemical as a COPEC:
(a) The screening concentration is less than the ESV.
(b) The detection frequency is less than 5 percent.

[g] Mean concentration not applicable when sample size = 1.

[h] Calculation of 95% UCLs and evaluation of COPECs using combined dataset not necessary when both the maximum and mean concentrations of the Post-BERA dataset are lower than the original BERA dataset.

BERA Baseline ecological risk assessment
COPEC constituent of potential ecological concern
HQ_{screen} screening-level hazard quotient
mg/kg milligrams per kilogram
NA not applicable
TCEQ Texas Commission on Environmental Quality

Table 15-21
Summary of Post-BERA Soil Data for Industrial Sub Area

Chemical	Detection Frequency	Percent Detection	Range of Values, mg/kg: Detected Concentrations Minimum	Detected Concentrations Maximum	Reporting Limits Minimum	Reporting Limits Maximum	Mean mg/kg
Nitroaromatics							
2,4,6-Trinitrotoluene	2 / 3	67	0.41	26000	0.4	2000	8.67E+03
2,4-Dinitrotoluene	1 / 3	33	8000	8000	0.4	2000	2.67E+03
2,6-Dinitrotoluene	1 / 3	33	15	15	0.4	4	5.13E+00
2-Amino-4,6-dinitrotoluene	1 / 3	33	48	48	0.4	4	1.61E+01

mg/kg milligrams per kilogram

Table 15-22

Comparison of Concentrations[a] Between the BERA Dataset and Post-BERA Dataset
Sediment: Central Creek Watershed

Chemical [b]	Detection Frequency				Maximum Detected Concentration, mg/kg		Mean Concentration, mg/kg		95% UCL, mg/kg [b]			ESV [c] mg/kg		TCEQ Bioaccumulative Compound?	HQ_{SCREEN} Based on Original BERA Data [d]	COPEC Based on Original BERA Data? [e,f]	HQ_{SCREEN} Based on Combined Data [d]	COPEC Based on Combined Data? [e,f]
	Original BERA Data	Post-BERA Data	Combined Data	Combined Percent Hits	Original BERA Data	Post-BERA Data	Original BERA Data	Post-BERA Data	Original BERA Data	Post-BERA Data	Combined Data							
Nitroaromatics																		
2,4,6-Trinitrotoluene	0 / 56	2 / 3	2 / 59	3	NA	2.60E+04	NA	8.67E+03	NA	NA	8.82E+02	0.092	g		NA	No	9582	No (b)
2,4-Dinitrotoluene	0 / 56	1 / 3	1 / 59	2	NA	8.00E+03	NA	2.67E+03	NA	NA	2.71E+02	0.0144	h		NA	No	18844	No (b)
2,6-Dinitrotoluene	0 / 56	1 / 3	1 / 59	2	NA	1.50E+01	NA	5.13E+00	NA	NA	6.71E-01	0.0398	h		NA	No	16.9	No (b)
2-Amino-4,6-dinitrotoluene	0 / 55	1 / 3	1 / 58	2	NA	4.80E+01	NA	1.61E+01	NA	NA	1.90E+00	11	i		NA	No	0.2	No (a)

Bolded concentrations reflect higher concentrations in the post-BERA dataset than the BERA dataset.

Notes:

[a] Detection frequency, concentrations, and COPEC selection information for chemicals using the original BERA dataset can be found in Table 6-25 of the Volume I BERA report.

[b] Only chemicals whose maximum or mean concentrations were higher in the Post-BERA dataset compared with the original BERA dataset, or that were detected in the Post-BERA dataset but not in the original data, are included. Essential nutrients are not inc

[e] See Table 6-16, Volume I of the BERA unless noted otherwise.

[d] HQ_{screen} is calculated as the 95% UCL divided by the ecological screening value (ESV).

[e] No = Chemical is not chosen as a COPEC; Yes = Chemical is chosen as a COPEC.

[f] Rationale for exclusion of chemical as a COPEC:
(a) The screening concentration is less than the ESV.
(b) The detection frequency is less than 5 percent.

[g] Talmage, S.S., D.M. Opresko, C.J. Maxwell, C.J.E. Welsh, F.M. Cretella, P.H. Reno, and F.B. Daniel, 1999, Nitroaromatic Munition Compounds: Environmental Effects and Screening Values **Rev. Environ. Contam. Toxicol.** 161:1-156, Springer-Verlag.

[h] Ecological Screening Levels (ESLs), U.S.EPA Region V, August 2003.

[i] Ecological Screening Levels (ESLs) for Los Alamos National Laboratory (LANL), 2002.

BERA Baseline ecological risk assessment
COPEC constituent of potential ecological concern
HQ_{screen} screening-level hazard quotient
mg/kg milligrams per kilogram
NA not applicable
TCEQ Texas Commission on Environmental Quality

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Houston, TX	B. LU 07/19/07	J. LINDBERG 07/19/07

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APPROVED BY

Plot Date: 07/07

N

Goose Prairie Creek

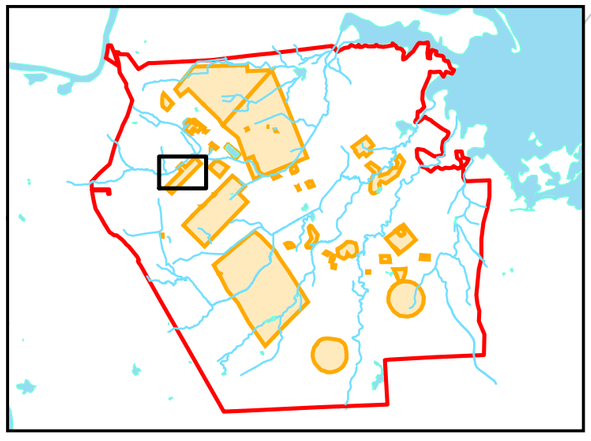
4TH ST.

5TH ST.

LHAAP-49

32SD14 <0.13
29SD22 <0.12
29SD24 <0.13

49SS37 0.0416 (0-0.5')
49SS38 0.28 (0-0.5')
49SB33 0.0631 (0-0.5') <0.0477 (1-2')
49SS48 0.107 (0-0.5')
49SB25 <0.048 (0-0.5') <0.0468 (1-2')
49SB24 0.0525 (0-0.5') <0.0448 (1-2')
49SB23 <0.049 (0-0.5') <0.048 (1-2')
49SB22 <0.0459 (0-0.5') <0.047 (1-2')
FWS-029 0.117 (0-0.5')
49SB54 0.0475 (0-0.5')
49SB51 0.0225 (0-0.5')
49SB32 84.2 (0-0.5') 6.88 (1-2')
49SS39 0.035 (0-0.5')
49SS47 3.76 (0-0.5')
49SD65 778 (0-0.5')
49SB26 <0.044 (0-0.5') <0.0479 (1-2')
49SS49 0.216 (0-0.5')
49SB30 0.052 (0-0.5') <0.046 (1-2')
49SB58 0.0752 (0-0.5')
49SB17 2.12 (0-0.5') 0.16 (1-2')
49SB55 0.0359 (0-0.5')
49SB31 0.0561 (0-0.5') <0.046 (1-2')
49SB52 0.0335 (0-0.5')
49SB53 0.058 (0-0.5')
49SB18 0.2 (0-0.5') <0.045 (1-2')
49SB60 0.0836 (0-0.5')
49SD64 0.0373 (0-0.5')
49SB27 <0.0438 (0-0.5') <0.047 (1-2')
49SS50 0.127 (0-0.5')
49SB57 0.0143 (0-0.5')
49SB19 <0.046 (0-0.5') 0.0909 (1-2')
49SB20 <0.0457 (0-0.5') 0.0927 (1-2')
49SB61 0.0545 (0-0.5')
49SB28 <0.0476 (0-0.5') <0.047 (1-2')
49SB59 0.0695 (0-0.5')
49SB13 <0.04 (0-0.5') <0.044 (1-2')
49SB56 0.0301 (0-0.5')
49SB36 0.0752 (0-0.5') <0.047 (1-3')
49SB21 <0.046 (0-0.5') 0.07 (1-2')
49SB12 0.0502 (0-0.5') <0.047 (1-2')
49SB35 <0.048 (0-0.5') 0.0799 (1-3')
49SD62 0.075 (0-0.5')
49SD63 0.0268 (0-0.5')
49SS46 0.0323 (0-0.5')
49SB11 0.0721 (0-0.5') <0.0429 (1-2')
49SB10 <0.0457 (0-0.5') <0.0426 (1-2')
49SB14 <0.045 (0-0.5') <0.044 (1-2')
49SB09 0.0734 (0-0.5') 0.0927 (1-2')
49SB04 0.0486 (0-0.5') 0.0749 (1-2')
49SB15 <0.044 (0-0.5') <0.043 (1-2')
49SB07 0.0838 (0-0.5') 0.0807 (1-2')
49SB16 0.545 (0-0.5') <0.043 (1-2')
49SB05 0.0722 (0-0.5') <0.051 (1-2')
49SB08 0.0661 (0-0.5') 0.0707 (1-2')
49SB34 0.0533 (0-0.5') 0.0731 (1-3')
49SB03 <0.038 (0-0.5') <0.0458 (1-2')
49SB02 0.055 (0-0.5') 6.27 (1-2')
49SB01 <0.0487 (0-0.5') 0.059 (1-2')
49SS45 0.0494 (0-0.5')



LEGEND

- 49SD65
- Surface Soil Sample Location
- Soil Boring Location
- Sediment Sample Location
- Stream
- Road
- Site
- Lake/Pond
- Approximate LHAAP Boundary

Note:

Sampling results reported in milligrams per kilogram (mg/kg).

0 100 200 400 Feet

Shaw®

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
TULSA, OKLAHOMA

FIGURE 15-1
CONCENTRATIONS OF MERCURY IN SOIL AND SEDIMENT NEAR SAMPLE LOCATION 49SD65

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

00059506

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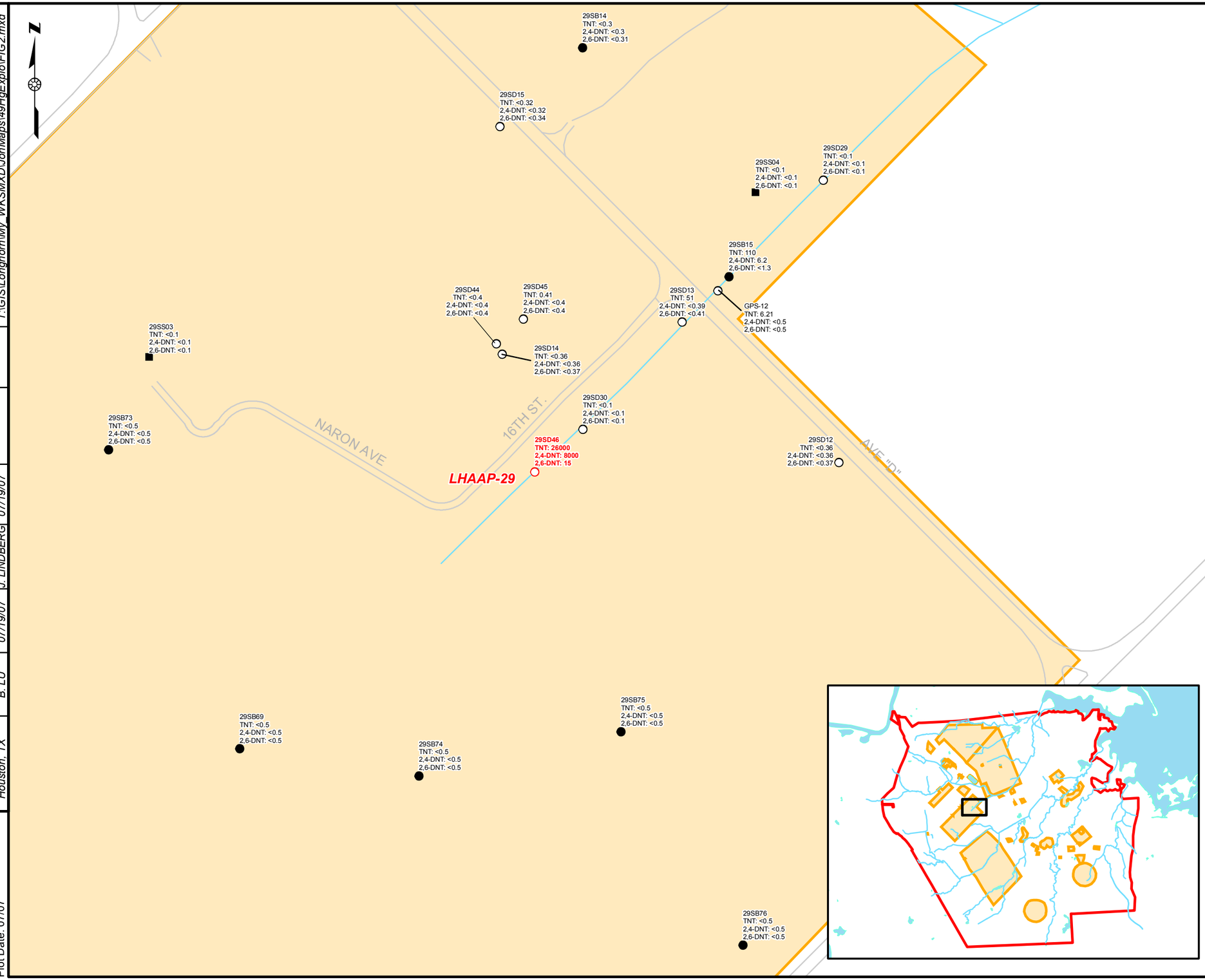
Plot Date: 07/07



LEGEND

- 29SD46
- Surface Soil Sample Location
- Soil Boring Location
- Sediment Sample Location
- Stream
- Road
- Site
- Lake/Pond
- Approximate LHAAP Boundary

Note:

Sampling results reported in milligrams per kilogram (mg/kg).

0 75 150 300 Feet

Shaw

U.S. ARMY CORPS OF ENGINEERS
TULSA DISTRICT
TULSA, OKLAHOMA

FIGURE 15-2
CONCENTRATIONS OF TNT, 2,4-DNT, AND 2,6-DNT IN SOIL AND SEDIMENT NEAR SAMPLE LOCATION 29SD46
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

16.0 Step 8: Risk Management

Section 16.0 presents Step 8, and contains information to support risk management decisions including recommended ecological PRGs, a brief discussion on potential ecological impacts of remedial options, monitoring considerations, and other risk management considerations. Risk management is a distinctly different process from risk assessment. The risk assessment establishes whether an ecological hazard may be present and defines a range or magnitude of the estimated hazard. In risk management, the results of the risk assessment are integrated with other considerations to make and justify risk management decisions. Additional risk management considerations can include the implications of existing background levels of COPECs, available technologies, tradeoffs between human and ecological concerns, costs of alternative actions, and remedy selection. This section concludes with an SMDP.

16.1 Recommended Ecological PRGs

Based on the estimated NOAEL and LOAEL concentrations for the final COPECs presented in **Section 15.7**, EcoPRGs specific to LHAAP are calculated using the Rule of Five (Greenberg and Charters, 2005), as agreed to by stakeholders (February 9, 2006 Meeting; **Appendix K**). It should be noted that the Rule of Five is not published USEPA guidance and is used in this LHAAP BERA at the recommendation of USEPA (July 28, 2005 LHAAP meeting referenced in the January 18, 2006 response to USEPA Region 6 comments [USEPA Comment No.3]).

The Rule of Five is a process by which EcoPRGs may be selected or developed from available information presented in the BERA at CERCLA (and possibly other) contaminated sites. The Rule of Five provides a simple and logical method for the development of defensible cleanup goals following the ecological risk characterization. It also provides a flexible framework within the risk range from which a clean up number may be selected. It should be noted that a cleanup goal based on neither the NOAEL nor the LOAEL itself are typically selected as an EcoPRG for a given chemical (Greenberg and Charters, 2005). An exception to this approach is where the NOAEL EcoPRG is selected for a surrogate wildlife receptor that represents a listed threatened or endangered species such as the Townsend's Big-Eared bat as a surrogate for the Rafinesque's Big-Eared Bat, and the Raccoon (Louisiana Black Bear) as a surrogate for the Louisiana Black Bear. This exception is based on Texas risk assessment guidance (TNRCC, 2001), which states that EcoPRGs based on the NOAEL must be selected for listed threatened or endangered species (or their surrogates).

A cleanup goal can be selected within the NOAEL-LOAEL risk range for a particular assessment endpoint based on the consideration of points in a geometric progression (Greenberg and Charters, 2005):

$$A_n = A_0 \times r^{n-1}$$

To calculate the constant "r", the following equation is used:

$$r = e^{\left[\frac{\ln(A_n)-(A_0)}{n-1}\right]}$$

where: Node 2 = NOAEL x r^{2-1}
Node 3 = NOAEL x r^{3-1}
etc

and the LOAEL (Node 7) = NOAEL x r^{7-1}

The following schematic summarizes the Rule of Five approach:

Initial	← The Clean Up Goal is Within this Range →					Final
NOAEL	←				→	LOAEL
Node 1	Node 2	Node 3	Node 4	Node 5	Node 6	Node 7
The five nodes between the NOAEL and the LOAEL are typically considered as EcoPRGs. However, for threatened and endangered species, Node 1 is considered as the EcoPRG.						

The initial assumption is that the third point (or Node 4) above the low end of the risk range (the NOAEL) is protective of growth and reproduction endpoints. This point is also equivalent to the geometric mean of the NOAEL and LOAEL. If the basis of the risk range (as determined by the toxicological endpoint of the chemical's TRV) is survival or mortality, the initial point (or clean up goal) is recommended to be the second point above the NOAEL (or Node 3) (Greenberg and Charters, 2005). Thus, a value from within the NOAEL-to-LOAEL range that will be protective of ecological receptors is selected as the EcoPRG (except as discussed previously for surrogate receptors selected for listed threatened or endangered species). This EcoPRG is then considered with other site factors in reaching a risk management decision.

16.1.1 EcoPRG Selection for Final COPECs in Soil

Estimated NOAEL- and/or LOAEL-based EcoPRGs for soil were presented in **Sections 15.4.1** and **15.7.1** for the six final COPECs in the Waste Sub-Area that had an EEQ greater than 1 for at least one receptor (i.e., barium, lead, 2,4-DNT, 2,6-DNT, 2,4,6-TNT, and dioxin). These NOAEL- and LOAEL-based EcoPRGs are used to estimate final EcoPRGs based on the Rule of Five (discussed above). For listed threatened or endangered surrogate species (i.e., the Townsend's Big-Eared Bat and the Raccoon [Louisiana Black Bear]) the Rule of Five is not used, as Texas guidance (TNRCC, 2001) requires the use of the NOAEL-based EcoPRG. It should be noted that no EcoPRGs are required for the Industrial Sub-Area or the Low Impact Sub-Area because no final COPECs in soil were found to have unacceptable hazard for these two areas. In addition, results of the RSA application demonstrated that chemicals present in

Industrial Sub-Area soil are not harming maximally exposed site mammals. All terrestrial receptors except the Short-Tailed Shrew and the Red Fox reflect exposure to surface soil (0 to 0.5 foot). The Short-Tailed Shrew and Red Fox reflect exposure to total soil (0 to 3 feet). EcoPRGs must be considered for both depths, depending on which receptors are potentially at risk. Recommended EcoPRGs in soil are presented for each receptor, and as each receptor is associated with a unique soil depth interval, these EcoPRGs need only be attained for this specific depth (see **Section 16.1.3** for further discussion related to attainment).

Barium. As four receptors had EEQs above 1 (**Section 15.7.1**), it is necessary to calculate EcoPRGs for each receptor, and the lowest EcoPRG is recommended for use in making risk management decisions (**Table 16-1**).

- Townsend's Big-Eared Bat: As this receptor is a surrogate for a listed threatened or endangered species (the Rafinesque's big-eared bat), the NOAEL-based EcoPRG is 252 mg/kg for surface soil, based on results of the refined food chain model. Based on results of the RSA, the NOAEL-EcoPRG is 300 mg/kg. As discussed in **Section 15.5**, there are benefits and limitations associated with the values from both of these sources.

- Raccoon: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 208 and 808 mg/kg, respectively. As the barium LOAEL TRV is based on mortality (**Volume I**, **Table 7-25**) Node 3 (or 327 mg/kg for surface soil) is selected using the Rule of Five. If the NOAEL-EcoPRG from the RSA Study is used, Node 3 is 418 mg/kg.

- Deer Mouse: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 141 and 547 mg/kg, respectively. As the barium LOAEL TRV is based on mortality (**Volume I**, **Table 7-25**) Node 3 (or 222 mg/kg for surface soil) is selected using the Rule of Five. If the NOAEL-EcoPRG from the RSA Study is used, Node 3 is 367 mg/kg.

- Short-Tailed Shrew: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 331 and 1,283 mg/kg, respectively. As the barium LOAEL TRV is based on mortality (**Volume I**, **Table 7-25**) Node 3 (or 520 mg/kg for total soil) is selected using the Rule of Five. The NOAEL-EcoPRG from the RSA Study (300 mg/kg) is not appropriate to use as the initial NOAEL value, as it is lower than the food chain model NOAEL-based EcoPRG of 331 mg/kg, and when multiple NOAEL-based EcoPRGs are available that are protective of the same, or similar, endpoints, it is appropriate to use the highest NOAEL-based value in applying the Rule of Five (USEPA, 1997a; USACHPPM, 2000).

In conclusion, the lowest (most conservative) EcoPRGs for barium are as follows:

- Surface soil (0 to 0.5 feet) EcoPRG = 222 mg/kg, based on data from the refined food chain model for the Deer Mouse

- Surface soil (0 to 0.5 feet) EcoPRG = 300 mg/kg, based on data from the RSA Study, as this is the NOAEL-based EcoPRG for the Townsend's Big-Eared Bat. However, the RSA study is not used to develop the primary EcoPRG recommended in this BERA (**Section 15.7.1**).

- Total soil (0 to 3 feet) EcoPRG = 520 mg/kg, based on data from the refined food chain model for the Short-Tailed Shrew

It should be noted that the site-specific background concentrations for barium range from 116 to 136 mg/kg (**Volume I**, **Appendix F**, Table F-3). All of the recommended EcoPRGs (above) exceed this background range.

Lead. Only the American Woodcock had an EEQ above 1 (**Section 15.7.1**). Therefore, EcoPRGs are necessary for only this one receptor (**Table 16-1**).

- American Woodcock. NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model, and using the metallic lead TRV (see **Section 15.7.1**), were 255 and 763 mg/kg, respectively. As the lead NOAEL and LOAEL TRVs are based on reproduction (**Volume I**, **Table 7-25**), Node 4 (or 441 mg/kg for surface soil) is selected using the Rule of Five (Greenberg and Charters, 2005). The RSA NOAEL, which is based on observations of mammalian species, is not considered for the development of EcoPRGs for avian receptors.

In conclusion, the lowest (most conservative) EcoPRG for lead is as follows:

- Surface soil (0 to 0.5 feet) EcoPRG = 441 mg/kg, based on data from the refined food chain model for the American Woodcock

- No total soil (0 to 3 feet) EcoPRG is necessary, as no receptors potentially exposed to subsurface soil had EEQs greater than 1

It should be noted that the site-specific background concentrations for lead range from 18 to 20 mg/kg (**Volume I**, **Appendix F**, Table F-3). The recommended EcoPRG (above) exceeds this background range.

2,4-DNT. As two receptors had EEQs above 1 (**Section 15.7.1**), EcoPRGs are necessary for each receptor separately, and the lowest EcoPRG is recommended for use in making risk management decisions (**Table 16-1**).

- Short-Tailed Shrew: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 9.6 and 72 mg/kg, respectively. As the 2,4-DNT NOAEL and LOAEL TRVs are based on neurotoxicity and other non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 26 mg/kg for total soil) is selected using the Rule of Five. The NOAEL-EcoPRG from the RSA Study (0.0342 mg/kg) is not appropriate to use as the initial NOAEL value, as it is lower than the food chain model

NOAEL-based EcoPRG of 9.6 mg/kg, and the highest NOAEL-based EcoPRG should be selected for use in applying the Rule of Five (Greenberg and Charters, 2005).

- Red Fox: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 4.4 and 33 mg/kg, respectively. As the 2,4-DNT NOAEL and LOAEL TRVs are based on neurotoxicity and other non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 12 mg/kg for total soil) is selected using the Rule of Five (Greenberg and Charters, 2005. The NOAEL-EcoPRG from the RSA Study (0.0342 mg/kg) is not appropriate to use as the initial NOAEL value, as it is lower than the food chain model NOAEL-based EcoPRG of 4.4 mg/kg, and when multiple NOAEL-based EcoPRGs are available that are protective of the same, or similar, endpoints, it is appropriate to use the highest NOAEL-based value in applying the Rule of Five (USEPA, 1997a; USACHPPM, 2000).

In conclusion, the lowest (most conservative) EcoPRG for 2,4-DNT is as follows:

- Total soil (0 to 3 feet) EcoPRG = 12 mg/kg, based on data from the refined food chain model for the Red Fox

2,6-DNT. As three receptors had EEQs above 1 (**Section 15.7.1**), EcoPRGs are necessary for each receptor separately, and the lowest EcoPRG is recommended for use in making risk management decisions (**Table 16-1**).

- Deer Mouse: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 1.6 and 4.7 mg/kg, respectively. As the 2,6-DNT NOAEL and LOAEL TRVs are based on blood chemistry and body weight that are non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 2.7 mg/kg for total soil) is selected using the Rule of Five. The NOAEL-EcoPRG from the RSA Study (0.0342 mg/kg) is not appropriate to use as the initial NOAEL value, as it is lower than the food chain model NOAEL-based EcoPRG of 1.4 mg/kg, and when multiple NOAEL-based EcoPRGs are available that are protective of the same, or similar, endpoints, it is appropriate to use the highest NOAEL-based value in applying the Rule of Five (USEPA, 1997a; USACHPPM, 2000).

- Short-Tailed Shrew: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 3.9 and 12 mg/kg, respectively. As the 2,6-DNT NOAEL and LOAEL TRVs are based on blood chemistry and body weight that are non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 6.8 mg/kg for total soil) is selected using the Rule of Five. The NOAEL-EcoPRG from the RSA Study (0.0342 mg/kg) is not appropriate to use as the initial NOAEL value, as it is lower than the food chain model NOAEL-based EcoPRG of 3.9 mg/kg, and when multiple NOAEL-based EcoPRGs are available that are protective of the same, or similar, endpoints, it is appropriate to use the highest NOAEL-based value in applying the Rule of Five (USEPA, 1997a; USACHPPM, 2000).

- Red Fox: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 4.5 and 14 mg/kg, respectively. As the 2,6-DNT NOAEL and LOAEL TRVs are based on blood chemistry and body weight that are non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 7.9 mg/kg for total soil) is selected using the Rule of Five. The NOAEL-EcoPRG from the RSA Study (0.0342 mg/kg) is not appropriate to use as the initial NOAEL value, as it is lower than the food chain model NOAEL-based EcoPRG of 4.5 mg/kg, when multiple NOAEL-based EcoPRGs are available that are protective of the same, or similar, endpoints, it is appropriate to use the highest NOAEL-based value in applying the Rule of Five (USEPA, 1997a; USACHPPM, 2000).

In conclusion, the lowest (most conservative) EcoPRGs for 2,6-DNT are as follows:

- Surface soil (0 to 0.5 feet) EcoPRG = 2.7 mg/kg, based on data from the refined food chain model for the Deer Mouse
- Total soil (0 to 3 feet) EcoPRG = 6.8 mg/kg, based on data from the refined food chain model for the Short-Tailed Shrew

2,4,6-TNT. As eight receptors had EEQs above 1 (**Section 15.7.1**), EcoPRGs are necessary for each receptor separately, and the lowest EcoPRG is recommended for use in making risk management decisions (**Table 16-1**).

- Deer Mouse: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 6.0 and 9.0 mg/kg, respectively. As the 2,4,6-TNT NOAEL and LOAEL TRVs are based on blood chemistry and body weight that are non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 7.3 mg/kg for total soil) is selected using the Rule of Five. No NOAEL-EcoPRG is available from the RSA Study as 2,4,6-TNT was not detected in soil in the RSA study area.
- Short-Tailed Shrew: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 3.8 and 5.7 mg/kg, respectively. As the 2,4,6-TNT NOAEL and LOAEL TRVs are based on blood chemistry and body weight that are non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 4.7 mg/kg for total soil) is selected using the Rule of Five. No NOAEL-EcoPRG is available from the RSA Study as 2,4,6-TNT was not detected in soil in the RSA study area.
- Raccoon: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 11 and 17 mg/kg, respectively. As the 2,4,6-TNT NOAEL and LOAEL TRVs are based on blood chemistry and body weight that are non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 13.7 mg/kg for surface soil) is selected using the Rule of Five. No NOAEL-EcoPRG is available from the RSA Study as 2,4,6-TNT was not detected in soil in the RSA study area.
- Raccoon (Louisiana Black Bear): As this receptor is a surrogate for a listed threatened or endangered species (the Louisiana black bear), the NOAEL-based EcoPRG is 88 mg/kg for surface soil, based on results of the refined food chain model. No

NOAEL-EcoPRG is available from the RSA Study as 2,4,6-TNT was not detected in soil in the RSA study area.

- Red Fox: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 5.6 and 8.4 mg/kg, respectively. As the 2,4,6-TNT NOAEL and LOAEL TRVs are based on blood chemistry and body weight that are non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 6.9 mg/kg for total soil) is selected using the Rule of Five. No NOAEL-EcoPRG is available from the RSA Study as 2,4,6-TNT was not detected in soil in the RSA study area.

- Townsend's Big-Eared Bat: As this receptor is a surrogate for a listed threatened or endangered species (the Rafinesque's big-eared bat), the NOAEL-based EcoPRG is 23 mg/kg for surface soil, based on results of the refined food chain model. No NOAEL-EcoPRG is available from the RSA Study as 2,4,6-TNT was not detected in soil in the RSA study area.

- American Woodcock. NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 1.2 and 31 mg/kg, respectively. As the lead NOAEL and LOAEL TRVs are based on hematological effects and other non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 6.1 mg/kg for surface soil) is selected using the Rule of Five.

- Red-Tailed Hawk. NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 5.2 and 133 mg/kg, respectively. As the lead NOAEL and LOAEL TRVs are based on hematological effects and other non-mortality-related endpoints (**Volume I**, **Table 7-25**) Node 4 (or 26.3 mg/kg for surface soil) is selected using the Rule of Five.

In conclusion, the lowest (most conservative) EcoPRGs for 2,4,6-TNT are as follows:

- Surface soil (0 to 0.5 feet) EcoPRG = 6.1 mg/kg, based on data from the refined food chain model for the American Woodcock

- Total soil (0 to 3 feet) EcoPRG = 4.7 mg/kg, based on data from the refined food chain model for the Short-Tailed Shrew

Dioxin. As five receptors had EEQs above 1 (**Section 15.7.1**), EcoPRGs are necessary for each receptor separately, and the lowest EcoPRG is recommended for use in making risk management decisions (**Table 16-1**). It should be noted that for this exercise, dioxin is the 2,3,7,8-TCDD TEQ concentration, as initially discussed in **Volume I**, **Section 6.1.2.3**.

- Deer Mouse: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 9.7E-7 and 9.7E-6 mg/kg, respectively. As the dioxin NOAEL and LOAEL TRVs are based on the reproduction endpoint (**Volume I**, **Table 7-25**) Node 4 (or 3.1E-6 mg/kg for surface soil) is selected using the Rule of Five (Greenberg and Charters, 2005). If the NOAEL-EcoPRG from the RSA Study is used (7.6E-6), Node 4 is 8.6E-6 mg/kg.

- Short-Tailed Shrew: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 4.2E-7 and 4.2E-6 mg/kg, respectively. As the dioxin NOAEL and LOAEL TRVs are based on the reproduction endpoint (**Volume I**, **Table 7-25**) Node 4 (or 1.3E-6 mg/kg for total soil) is selected using the Rule of Five. If the NOAEL-EcoPRG from the RSA Study is used (7.6E-6), the EcoPRG is 7.6E-6 mg/kg because this concentration is numerically greater than either the NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model.

- Raccoon: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 5.9E-6 and 5.9E-5 mg/kg, respectively. As the dioxin NOAEL and LOAEL TRVs are based on the reproduction endpoint (**Volume I**, **Table 7-25**) Node 4 (or 1.9E-5 mg/kg for surface soil) is selected using the Rule of Five. If the NOAEL-EcoPRG from the RSA Study is used (7.6E-6), Node 4 is 2.1E-5 mg/kg.

- Raccoon (Louisiana Black Bear): As this receptor is a surrogate for a listed threatened or endangered species (the Louisiana black bear), the NOAEL-based EcoPRG is 4.2E-5 mg/kg for surface soil, based on results of the refined food chain model. As the RSA NOAEL (7.6E-6 mg/kg) is lower than the NOAEL-based EcoPRG from the food chain model, it is not appropriate for use.

- American Woodcock: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 5.1E-6 and 5.1E-5 mg/kg, respectively. As the dioxin NOAEL and LOAEL TRVs are based on the reproduction endpoint (**Volume I**, **Table 7-25**) Node 4 (or 1.6E-5 mg/kg for surface soil) is selected using the Rule of Five. The RSA NOAEL, which is based on observations of mammalian species, is not considered as a potential starting point for developing EcoPRGs for avian receptors.

In conclusion, the lowest (most conservative) EcoPRGs for dioxin are as follows:

- Surface soil (0 to 0.5 feet) EcoPRG = 3.1E-6 mg/kg, based on data from the refined food chain model for the Deer Mouse

- Surface soil (0 to 0.5 feet) EcoPRG = 8.6E-6 mg/kg, based on data from the RSA Study (and using the Deer Mouse LOAEL-EcoPRG). However, the RSA study is not used to develop the primary EcoPRG recommended in this BERA (**Section 15.7.1**).

- Total soil (0 to 3 feet) EcoPRG = 1.3E-6 mg/kg, based on data from the refined food chain model for the Short-Tailed Shrew

- Total soil (0 to 3 feet) EcoPRG = 7.6E-6 mg/kg, based on data from the RSA Study (and using the RSA NOAEL as the LOAEL-EcoPRG for the Short-Tailed Shrew). However, the RSA study is not used to develop the primary EcoPRG recommended in this BERA (**Section 15.7.1**).

It should be noted that the site-specific background concentrations for dioxin range from 3.96E-6 to 4.41E-6 mg/kg (**Volume I**, **Appendix F**, Table F-1). Some of the recommended EcoPRGs

(above) are below this background range. Therefore, the recommended primary EcoPRGs default to the lower background concentration (4.0E-6 mg/kg), as follows:

- Surface soil (0 to 0.5 mg/kg) EcoPRG = 4.0E-6 mg/kg
- Total soil (0 to 3 feet) EcoPRG = 4.0E-6 mg/kg

If RSA-based "secondary" EcoPRGs are considered, they would be 8.6E-6 mg/kg for surface soil and 7.6E-6 mg/kg for total soil.

16.1.2 EcoPRG Selection for Final COPECs in Sediment

Estimated NOAEL- and/or LOAEL-based EcoPRGs for sediment were presented in **Section 15.7.2** for the three chemicals in sediment selected as final COPECs based on food chain modeling (i.e., mercury, thallium, and lead). These NOAEL- and LOAEL-based EcoPRGs are used to estimate final EcoPRGs based on the Rule of Five (discussed previously) (Greenberg and Charters, 2005). Food-chain-based EcoPRGs are back-calculated to an EEQ of 1.0 and these back-calculations assume that concentrations at which toxicological responses occur are linearly scaled, which is an assumption that may not be valid for all chemicals (see **Section 15.8.5** for uncertainties associated with this approach and Tannenbaum, et al., 2003a). For listed threatened or endangered surrogate species (i.e., the Raccoon [Louisiana Black Bear]) the Rule of Five is not used, as Texas guidance (TNRCC, 2001) requires the use of the NOAEL-based EcoPRG. It should be noted that no EcoPRGs are required for the Saunders Branch Watershed because no final COPECs in sediment were found to have unacceptable hazard for this area.

Mercury. Only the Bank Swallow had an EEQ above 1 (**Section 15.7.2**). Therefore, an EcoPRG is necessary for only this one receptor (**Table 16-2**).

- Bank Swallow: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 0.19 and 1.9 mg/kg, respectively. As the mercury NOAEL and LOAEL TRVs are based on reproduction (**Volume I**, **Table 7-25**), Node 4 (or 0.6 mg/kg for sediment) is selected using the Rule of Five.

In conclusion, the recommended EcoPRG for mercury is 0.6 mg/kg. It should be noted that the site-specific background concentrations for mercury range from 0.052 to 0.064 mg/kg (**Volume I**, **Appendix F,** Table F-5). The recommended EcoPRG (above) exceeds this background range.

Thallium. As two receptors in three watersheds had EEQs above 1 (**Section 15.7.2**), EcoPRGs are necessary for each receptor separately, and the lowest EcoPRG is recommended for use in making risk management decisions (**Table 16-2**). Because NOAEL- and LOAEL-EcoPRGs were the same for each receptor, regardless of the watershed, EcoPRGs specific to a particular

watershed are not needed. It should also be noted that there are considerable uncertainties associated with these thallium EcoPRGs (**Section 15.8.2**).

- Raccoon: NOAEL- and LOAEL-based EcoPRGs based on the refined food chain model were 0.2 and 2.0 mg/kg, respectively. As the thallium NOAEL and LOAEL TRVs are based on reproduction (**Volume I**, **Table 7-25**), Node 4 (or 0.63 mg/kg for sediment) is selected using the Rule of Five (Greenberg and Charters, 2005).
- Raccoon (Louisiana Black Bear): As this receptor is a surrogate for a listed threatened or endangered species (the Louisiana black bear), the NOAEL-based EcoPRG is 0.36 mg/kg for sediment, based on results of the refined food chain model.

In conclusion, the lowest (most conservative) EcoPRG for thallium is 0.36 mg/kg, based on data from the refined food chain model for the Raccoon (Louisiana Black Bear). It should be noted that the site-specific background concentrations for thallium are not available, as this metal was not detected in background sediment samples (**Volume I**, **Appendix F**, Table F-5). The recommended EcoPRG (0.36 mg/kg), however, is below the range of background sediment sample detection limits (**Section 15.8.2**). In addition, the sediment-to-aquatic invertebrate BAF factor used in the food chain model is an assumed value (because all tissue concentrations were non-detect), and this BAF is highly uncertain. These findings suggest that the thallium EcoPRG should be used with caution, as it is likely unnecessarily restrictive, difficult to delineate, and below background concentrations.

Based on the above considerations, an alternative thallium BAF is recommended for use, as discussed in **Section 15.8.2**. Use of this alternative BAF would increase the thallium EcoPRG by a factor of 2.1, resulting in an alternative EcoPRG of 0.76 mg/kg.

Lead. No food chain model based EcoPRG is required for sediment, as no lead EEQs were above 1 (**Table 15-10**).

As discussed in **Section 15.7.2**, the sediment NOAEL and LOAEL lead concentrations, for direct contact aquatic invertebrate growth hazard, are estimated to be 191 and 246 mg/kg, respectively. Using these data and the Rule of Five, the estimated EcoPRG for lead in sediment would be Node 4, or 217 mg/kg for the aquatic invertebrate growth endpoint, but is lowered to Node 3 or 208, due to uncertainties associated with the sediment toxicity tests (e.g., the unusual number of water changeouts and use of reconstituted overlying water with a hardness of 88 mg/L; see **Section 15.8.1)** (**Table 16-2**).

As also discussed in **Section 15.7.2**, the sediment NOAEL and LOAEL lead concentrations, for direct contact survival hazard, are estimated to be 246 and 352 mg/kg, respectively. Using these data and the Rule of Five, the estimated EcoPRG for lead in sediment would be Node 3 (one node lower than the middle node), or 277 mg/kg for the aquatic invertebrate survival endpoint,

but is lowered to Node 2 or 261 mg/kg, due to uncertainties associated with the sediment toxicity tests (e.g., the unusual number of water changeouts and use of reconstituted overlying water with a hardness of 88 mg/L; see **Section 15.8.1)** (**Table 16-2**). A more restrictive node is selected for the survival endpoint, compared with the growth endpoint discussed in the preceding paragraph, due to the severity of the survival endpoint.

Based on results of the sediment toxicity tests, the recommended EcoPRG for lead in sediment, considering both survival and growth endpoints, is 208 mg/kg, as this value is the lower of the two endpoint EcoPRGs.

16.1.3 Facility-Wide Attainment of EcoPRGs

An important concept to recognize when making risk management decisions is that the media-specific EcoPRGs presented in previous subsections have been developed on a Sub-Area and watershed facility-wide basis, rather than a site-specific basis. Therefore, a demonstration of EcoPRG COPEC attainment that is completed and/or reported in future documents (e.g., feasibility studies [FS]) should also be based on a facility-wide approach. For example, the 2,6-DNT EcoPRG for soil in the Waste Sub-Area was estimated to be 6.8 mg/kg in total soil (0 to 3 feet), based on the most exposed receptor (i.e., the Short-Tailed Shrew). Thus, a remedial option selected for any site within the 486-acre Waste Sub-Area would be most appropriately applied if it reduced the *overall* 2,6-DNT soil exposure from 13.6 mg/kg (the current EPC in total soil; **Volume I**, **Table 6-19**) to the recommended EcoPRG of 6.8 mg/kg. As 2,6-DNT was only detected in 17 percent (i.e., 14 of 84) of the Waste Sub-Area soil samples, and the top six detections were 500, 27, 23, 19, 9.3, and 6.8 mg/kg (ranked from highest to lowest), it is likely that the selected remedial option would only need to address 2,6-DNT detections in total soil above approximately 20 to 25 mg/kg. This is because the resultant sub-area-wide 2,6-DNT EPC in total soil (i.e., the residual COPEC concentration) would likely be less than the EcoPRG of 6.8 mg/kg if a few of the highest concentrations were addressed. Therefore, not every 2,6-DNT detection in soil above the EcoPRG of 6.8 mg/kg in the Waste Sub-Area would necessarily need to be addressed. Because the sub-area and watershed delineations were selected as a spatial organizational scheme to represent both small- and large-range receptor exposure areas, application of the EcoPRGs across the entire sub-area/watershed is appropriate, even for the protection of animals such as the shrew that have relatively small home ranges (see also **Section 8.7** of **Volume I** for additional discussion). If there are any uncertainties associated with the protection of small range receptors, as described in **Section 8.7**, that information will also be reiterated in future FS reports, as appropriate.

Finally, as mentioned previously, attainment of EcoPRGs should be on a depth-specific basis. For example, the 2,6-DNT EcoPRG for soil in the Waste Sub-Area was estimated to be 6.8 mg/kg, which should be applied to total soil (0 to 3 feet) because the most exposed receptor

(i.e., the Short-Tailed Shrew) is an animal that is known to dig subterraneous burrows. Detections of any COPEC below 3 feet are not an ecological concern.

16.1.4 Summary of Final EcoPRGs for Soil and Sediment

Based on the results of the above subsections (summarized in **Tables 16-1** and **16-2**), the following final EcoPRGs are recommended for risk management considerations. It should be noted that secondary EcoPRGs for barium and dioxin, estimated using results from the RSA Study (**Section 15.4**), are not presented in the summary table below, because food-chain based EcoPRGs are recommended as the primary EcoPRGs to be considered in individual site FS reports. However, these secondary EcoPRGs may also be considered in an FS, after evaluation of the primary EcoPRGs. A surface soil EcoPRG is not presented for TNT because its total soil EcoPRG is lower than its surface soil EcoPRG, and any remedial action to address total soil would also address surface soil. Surface soil EcoPRGs are not presented for dioxin because both the surface soil and total soil EcoPRGs are the dioxin background concentration.

COPEC	Sub-Area or Watershed	Depth of Interest (mg/kg)	Final EcoPRG (mg/kg)
Soil			
Barium	Waste Sub-Area	Surface Soil (0 – 0.5) Total Soil (0 – 3)	222 520
Lead	Waste Sub-Area	Surface Soil (0 – 0.5)	441
2,4-DNT	Waste Sub-Area	Total Soil (0 – 3)	12
2,6-DNT	Waste Sub-Area	Surface Soil (0 – 0.5) Total Soil (0 – 3)	2.7 6.8
2,4,6-TNT	Waste Sub-Area	Total Soil (0 – 3)	4.7
Dioxin (2,3,7,8-TCDD TEQ)	Waste Sub-Area	Total Soil (0 – 3)	4E-6
Sediment			
Mercury	Goose Prairie Creek Watershed	Sediment (0 – 1)	0.60
Thallium	Goose Prairie Creek, Harrison Bayou, and Central Creek Watersheds	Sediment (0 – 1)	0.76
Lead	Goose Prairie Creek Cove of Caddo Lake	Sediment (0 – 1)	208

As discussed in **Section 16.1.3**, attainment of these EcoPRGs would be most appropriately demonstrated on a sub-area-wide or watershed-wide basis, not on a site-specific basis.

In order to provide guidance for site-specific FS reports that may be generated for individual LHAAP sites, these recommended EcoPRGs are compared with sub-area specific and watershed specific EPCs (from **Volume I** and for lead from **Section 15.7.1**), as follows:

COPEC	Sub-Area or Watershed	Depth of Interest (mg/kg)	Recommended EcoPRG (mg/kg)	Applicable Receptor	Area EPC (mg/kg)	Potential Ecological Concern? [a]
Soil						
Barium	Waste Sub-Area Waste Sub-Area	0 – 0.5 0 – 3	222 520	Deer Mouse Short Tailed Shrew	1,011 553	Yes Yes
Lead	Waste Sub-Area	0 – 0.5	441	American Woodcock	178	No
2,4,-DNT	Waste Sub-Area	0 – 3	12	Red Fox	101	Yes
2,6-DNT	Waste Sub-Area Waste Sub-Area	0 – 0.5 0 – 3	2.7 6.8	Deer Mouse Short Tailed Shrew	2.4 13.6	No Yes
2,4,6-TNT	Waste Sub-Area	0 – 3	4.7	Short Tailed Shrew	287	Yes
Dioxin (2,3,7,8-TCDD TEQ)	Waste Sub-Area	0 – 3	4E-6	Short Tailed Shrew	3.4E-5	Yes
Sediment						
Mercury	Goose Prairie Creek Watershed	0 – 1	0.60	Bank Swallow	0.265	No
Thallium	Goose Prairie Creek, Harrison Bayou, and Central Creek Watersheds	0 – 1	0.76	Raccoon (Louisiana Black Bear)	0.70, 0.60, 0.70	No [c]
Lead [b]	Goose Prairie Creek Cove of Caddo Lake	0 – 1	208	Aquatic Invertebrate (*H. azteca*)	76.6 (entire watershed) 542 (MDC in Cove)	No Yes

Notes and Abbreviations:

[a] Chemicals whose exposure point concentration (EPC) exceed their EcoPRG are considered to be of potential ecological concern.

[b] Some of the lead in sediment may not be site-related (Section 15.8.4).

[c] Uncertainties associated with the thallium sediment EcoPRG should be considered. The EcoPRG of 0.76 mg/kg is based on the use of an alternative BAF (see Sections 15.8.2 and 16.1.2).

MDC maximum detected concentration

16.2 Summary of Decision Outcomes for Final COPECs

This section presents a summary of the determination that was made in the BERA for all the final COPECs that were identified at the Installation following Step 3.

16.2.1 Soil Final COPECs

Cadmium, chromium, zinc, and perchlorate were the final COPECs evaluated for the Industrial Sub-Area. All of these chemicals were final COPECs due to concerns or uncertainties regarding food chain effects. However, based on the BERA refined food chain models using site-specific data, all of these chemicals had EEQs less than 1 for all receptors (**Section 15.1**). Therefore, no EcoPRGs were developed for any of these chemicals. No unacceptable hazard was identified for any of the final COPECs in the Industrial Sub-Area, and no further action is recommended for chemicals in soil the Industrial Sub-Area based on ecological concerns.

Barium, cadmium, chromium, lead, 2,4-DNT, 2,6-DNT, 2,4,6-TNT, and dioxin were the final COPECs evaluated for the Waste Sub-Area. All of these chemicals were final COPECs due to concerns regarding food chain effects. Based on the BERA refined food chain models using site-specific data, barium, lead, 2,4-DNT, 2,6-DNT, 2,4,6-TNT, and dioxin had EEQs that exceeded 1 for at least one receptor (**Section 15.1**). Further action may be needed for these chemicals in soil in the Waste Sub-Area to address ecological concerns. EcoPRGs were developed for these chemicals (**Section 16.1.1**) to aid in the evaluation of remedial alternatives (**Section 16.3**). The EcoPRG for lead was higher than the EPC in the Waste Sub-Area (**Section 16.1.4**), thus lead is not an ecological concern. In summary, no further action for cadmium, chromium, or lead in soil in the Waste Sub-Area is recommended to address ecological concerns.

No final COPECs were identified in soil in the Low Impact Sub-Area.

16.2.2 Sediment Final COPECs

Lead, mercury, silver, and thallium were the final COPECs evaluated for the Goose Prairie Creek Watershed. Thallium was also a final COPEC in Central Creek and Harrison Bayou. Lead, mercury, and thallium were final COPECs due to concerns regarding food chain effects. Lead, mercury, and silver were selected as final COPECs due to concerns regarding direct toxicity. Based on the BERA refined food chain models using site-specific data, mercury and thallium had EEQs that exceeded 1 for at least one receptor (**Section 15.1**). Sediment toxicity tests suggested that lead (but not mercury or silver) was possibly associated with impaired growth and survival of amphipods in sediment samples collected from the North Goose Prairie Creek Cove of Caddo Lake (**Section 15.2**). Therefore, EcoPRGs were developed for lead, mercury, and thallium (**Section 16.1.2**) for consideration by risk managers. However, the EcoPRG for mercury was higher than the EPC in the Goose Prairie Creek watershed (**Section 16.1.4**), and there is considerable ambiguity as to whether thallium is background-related, and the degree to which it bioaccumulates in aquatic organisms (**Section 15.8.2**). Therefore, no further action for mercury or thallium in sediment is recommended to address ecological concerns. There is also some question as to whether lead is related to historical operations at the Installation (**Section 15.8.4**).

16.3 Other Risk Management Considerations

The BERA is not the only information that the risk manager should consider when evaluating remedial options during the FS phase of the Superfund process. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 Code of Federal Regulations [CFR] 300.430(f)(1)(i)) specifies that each remedial alternative should be evaluated according to nine criteria. Two are considered threshold criteria, and take precedence over the others:

(1) Overall protection of human health and the environment.
(2) Compliance with applicable or relevant and appropriate requirements (ARARs) (unless waiver applicable).

As described in the rest of **Section 16.3** below, a particularly important consideration for the first criterion is the ecological impacts of the remedial options.

Five of the nine criteria are considered primary balancing criteria to be considered after the threshold criteria

(3) Long-term effectiveness and permanence.
(4) Reduction of toxicity, mobility, or volume of hazardous wastes through the use of treatment.
(5) Short-term effectiveness.
(6) Implementability.
(7) Cost.

Finally, two additional criteria are referred to as modifying criteria that must be considered:

(8) State acceptance.
(9) Community acceptance.

Effective risk communication is particularly important to help ensure that a remedial option that best satisfies the other criteria can be implemented at a site. Additional factors that the Risk Manager should take into consideration include existing background levels, current and likely future land uses, current and likely future resource uses in the area, and local, regional, and national ecological significance of the site. Consideration of the ecological impacts of remedial options and residual risks associated with leaving COPECs in place are very important considerations, as described briefly in **Section 16.4**.

16.4 Ecological Impacts of Remedial Options

Management of ecological risks should take into account the potential for impacts to the ecological assessment endpoints from implementation of various remedial options (USEPA, 1997a). The risk manager should balance: (1) residual risks posed by site COPECs before and after implementation of the selected remedy with (2) the potential impacts of the selected remedy on the environment independent of ecological hazards. The selection of a remedial alternative could require tradeoffs between long-term and short-term risk. The ecological risks posed by the "no action" alternative are the risks estimated by the BERA (**Section 15.0**). In addition, each remedial option is likely to have its own ecological impact. This impact could be anything from a short-term loss to complete and permanent loss of the present habitat and ecological communities. In instances where substantial ecological impacts may result from the selected remedy (e.g., dredging the Goose Prairie Creek Cove of Caddo Lake), the risk manager should

consider ways to mitigate the impacts of the remedy and compare the mitigated impacts to the threats posed by the site COPECs. During the FS, the boundaries of potential risk under the no-action alternative (i.e., baseline conditions) are compared with the evaluation of potential impacts of the remedial options to help justify the preferred remedy. The preferred remedy should minimize the risk of long-term impacts that could result from the remedy and any residual contamination. When the selected remedial option leaves some site COPECs in place that are presumed to pose an ecological risk, the justification for the selected remedy should be clearly documented. Consideration of the environmental effects of the remedy itself might result in a decision to allow COPECs to remain on site at levels higher than the thresholds for effect on the assessment endpoint. Thus, selection of the most appropriate ecologically-based remedy can result in residual contamination that presents some risk.

16.5 Scientific Management Decision Point

At the end of Step 8, a SMDP is reached (USEPA, 1997a). The risk management decision is finalized in the Record of Decision. The decision should minimize the risk of long-term impacts that could result from the remedy and any residual COPECs. When the selected remedy leaves residual COPECs at levels higher than the upper-bound estimate of the threshold for adverse effects on the assessment endpoint, the risk manager should justify the decision (e.g., describe how a more complete physical remedy could jeopardize an ecological community more than the residual contamination).

As individual FS reports will be prepared for many of the individual sites at LHAAP, recommended remedial alternatives for each site are not available at the current time. However, the information presented in this BERA report, and the recommended EcoPRGs in **Section 16.1.4**, provide information to assist in reaching risk management decisions.

Table 16-1
Calculation of Final EcoPRGs for Soil

Table 16-2
Calculation of Final EcoPRGs for Sediment

Table 16-1
Calculation of Final EcoPRGs for Soil

Final COPEC	Area	Wildlife Receptor	Soil Depth of Interest	NOAEL-Based EcoPRG (mg/kg) (Basis)	LOAEL-Based EcoPRG (mg/kg) (all FCM Basis)	Geometric Progression Using the Rule of Five [a] (mg/kg)	TRV Endpoint	Rule of Five Node Selected [b]	Final EcoPRG (mg/kg) [c]
Barium	WSA	TBEB	SS	252 (FCM)	NA	NA	Mortality	1	252
Barium	WSA	TBEB	SS	300 (RSA)	NA	NA	Mortality	1	300
Barium	WSA	RAC	SS	208 (FCM)	808	208, 261, 327, 410, 514, 645, and 808	Mortality	3	327
Barium	WSA	RAC	SS	300 (RSA)	808	300, 354, 418, 493, 581, 686, and 808	Mortality	3	418
Barium	WSA	DM	SS	141 (FCM)	547	141, 177, 222, 278, 348, 436, and 547	Mortality	3	222
Barium	WSA	DM	SS	300 (RSA)	547	300, 332, 367, 405, 448, 495, and 547	Mortality	3	367
Barium	WSA	STS	TS	331 (FCM)	1283	331, 415, 520, 652, 817, 1024, and 1,283	Mortality	3	520
Barium Summary	WSA		SS TS						222 520
Lead	WSA	AW	SS	255 (FCM)	763	255, 306, 367, 441, 529, 636, and 763	Reproduction	4	441
Lead Summary	WSA		SS						441
2,4-DNT	WSA	STS	TS	9.6 (FCM)	72	9.6, 13, 19, 26, 37, 51, and 72	Neurotoxicity	4	26
2,4-DNT	WSA	RF	TS	4.4 (FCM)	33	4.4, 6, 9, 12, 17, 24, and 33	Neurotoxicity	4	12
2,4-DNT Summary	WSA		TS						12
2,6-DNT	WSA	DM	SS	1.6 (FCM)	4.7	1.6, 1.9, 2.3, 2.7, 3.2, 3.9, and 4.7	Blood chemistry and body weight	4	2.7
2,6-DNT	WSA	STS	TS	3.9 (FCM)	12	3.9, 4.7, 5.7, 6.8, 8.3, 10, and 12	Blood chemistry and body weight	4	6.8
2,6-DNT	WSA	RF	TS	4.5 (FCM)	14	4.5, 5.4, 6.6, 7.9, 9.6, 11.6, and 14	Blood chemistry and body weight	4	7.9
2,6-DNT Summary	WSA		SS TS						2.7 6.8
2,4,6-TNT	WSA	DM	SS	6.0 (FCM)	9.0	6.0, 6.4., 6.9, 7.3, 7.9, 8.4, and 9.0	Blood chemistry and body weight	4	7.3
2,4,6-TNT	WSA	STS	TS	3.8 (FCM)	5.7	3.8, 4.1, 4.3, 4.7, 5.0, 5.3, and 5.7	Blood chemistry and body weight	4	4.7
2,4,6-TNT	WSA	RAC	SS	11 (FCM)	17	11, 11.8, 12.7, 13.7, 14.7, 15.8, and 17	Blood chemistry and body weight	4	13.7
2,4,6-TNT	WSA	RAC (LBB)	SS	88 (FCM)	NA	NA	Blood chemistry and body weight	1	88
2,4,6-TNT	WSA	RF	TS	5.6 (FCM)	8.4	5.6, 6.0, 6.4, 6.9, 7.3, 7.9, and 8.4	Blood chemistry and body weight	4	6.9
2,4,6-TNT	WSA	TBEB	SS	23 (FCM)	NA	NA	Blood chemistry and body weight	1	23
2,4,6-TNT	WSA	AW	SS	1.2 (FCM)	31	1.2, 2.1, 3.5, 6.1, 10.5, 18, and 31	Hematological	4	6.1
2,4,6-TNT	WSA	RTH	SS	5.2 (FCM)	133	5.2, 8.9, 15.3, 26.3, 45.1, 77.5, and 133	Hematological	4	26.3

Table 16-1 *(Continued)*
Calculation of Final Eco PRGs for Soil

Final COPEC	Area	Wildlife Receptor	Soil Depth of Interest	NOAEL-Based EcoPRG (mg/kg) (Basis)	LOAEL-Based EcoPRG (mg/kg) (all FCM Basis)	Geometric Progression Using the Rule of Five [a] (mg/kg)	TRV Endpoint	Rule of Five Node Selected [b]	Final EcoPRG (mg/kg) [c]
2,4,6-TNT Summary	WSA		SS TS						6.1 4.7
Dioxin	WSA	DM	SS	9.7E-7 (FCM)	9.7E-6	9.7E-7, 1.4E-6, 2.1E-6, 3.1E-6, 4.5E-6, 6.6E-6 and 9.7E-6	Reproduction	4	3.1E-6
Dioxin	WSA	DM	SS	7.6E-6 (RSA)	9.7E-6	7.6E-6, 7.9E-6, 8.2E-6, 8.6E-6, 8.9E-6, 9.3E-6, and 9.7E-6	Reproduction	4	8.6E-6
Dioxin	WSA	STS	TS	4.2E-7 (FCM)	4.2E-6	4.2E-7, 6.2E-7, 9.0E-7, 1.3E-6, 1.9E-6, 2.9E-6, and 4.2E-6	Reproduction	4	1.3E-6
Dioxin	WSA	STS	TS	7.6E-6 (RSA)	4.2E-6	NA (LOAEL < NOAEL)	Reproduction	1	7.6E-6
Dioxin	WSA	RAC	SS	5.9E-6 (FCM)	5.9E-5	5.9E-6, 8.7E-6, 1.3E-5, 1.9E-5, 2.7E-5, 4.0E-5, and 5.9E-5	Reproduction	4	1.9E-5
Dioxin	WSA	RAC	SS	7.6E-6 (RSA)	5.9E-5	7.6E-6, 1.1E-5, 1.5E-5, 2.1E-5, 3.0E-5, 4.2E-5, and 5.9E-5	Reproduction	4	2.1E-5
Dioxin	WSA	RAC (LBB)	SS	4.2E-5 (FCM)	NA	NA	Reproduction	1	4.2E-5
Dioxin	WSA	AW	SS	5.1E-6 (FCM)	5.1E-5	5.1E-6, 7.5E-6, 1.1E-5, 1.6E-5, 2.4E-5, 3.5E-5, and 5.1E-5	Reproduction	4	1.6E-5
Dioxin Summary [d]	WSA		SS TS						4E-6 [e] 4E-6 [e]

Notes:

AW	American Woodcock
COPEC	chemical of potential ecological concern
DM	Deer Mouse
EcoPRG	ecological preliminary remediation goal
FCM	food chain model (refined FCM with site-specific BERA inputs; (Note: FCM-based EcoPRGs are considered primary EcoPRGs)
LOAEL	lowest observed adverse effect level
NA	not applicable (see text for discussion)
NOAEL	no observed adverse effect level
RAC	Raccoon
RAC (LBB)	Raccoon (Louisiana Black Bear)
RF	Red Fox
RSA	rodent sperm analysis study (Note: the RSA-based EcoPRGs are considered secondary EcoPRGs)
RTH	Red-Tailed Hawk
RV	toxicity reference value
SS	surface soil (0 to 0.5 feet)
STS	Short-Tailed Shrew
TBEB	Townsend's Big-Eared Bat
TS	total soil (0 to 3 feet)
WSA	waste sub-area

Footnotes:

[a] See text for discussion of the Rule of Five.
[b] The Rule of Five Node (1 through 7) selected based on the TRV endpoint of concern, see text for discussion.
[c] The Final EcoPRG recommended for risk management consideration.
[d] The dioxin EcoPRGs refer to the 2,3,7,8-TCDD TEQ concentration, see text for discussion.
[e] As the site-specific background concentration for dioxin (2,3,7,8-TCDD TEQ concentration) ranges from 3.96E-6 to 4.41E-6 mg/kg, and the recommended EcoPRGs in the table are below this background range (3.1 E-6 and 1.3 E-6 for surface soil and total soil, respectively), the recommended EcoPRGs default to 4.0E-6 for both surface soil and total soil.

Table 16-2
Calculation of Final EcoPRGs for Sediment

Final COPEC	Area	Receptor	NOAEL-Based EcoPRG (mg/kg) (Basis)	LOAEL-Based EcoPRG (mg/kg) (Basis)	Geometric Progression Using the Rule of Five [a] (mg/kg)	TRV Endpoint	Rule of Five Node Selected [b]	Final EcoPRG (mg/kg) [c]
Mercury	GPC	BS	0.19 (FCM)	1.9 (FCM)	0.19, 0.28, 0.41, 0.60, 0.88, 1.3, and 1.9	Reproduction	4	0.60
Mercury Summary	GPC							0.60
Thallium	GPC, HB, CC	RAC	0.20 (FCM)	2.0 (FCM)	0.20, 0.29, 0.43, 0.63, 0.93, 1.4, and 2.0	Reproduction	4	0.63
Thallium	GPC, HB, CC	RAC (LBB)	0.36 (FCM)	NA	NA	Reproduction	1	0.36
Thallium Summary	GPC, HB, CC							0.36 [d]
Lead	GPC Cove	Aquatic Invertebrates	191 (Tox)	246 (Tox)	191, 199, 208, 217, 226, 236, and 246	Growth	3	208
Lead	GPC Cove	Aquatic Invertebrates	246 (Tox)	352 (Tox)	246, 261, 277, 294, 312, 332, and 352	Survival	2	261
Lead Summary	GPC Cove							208

Notes:

BS	Bank Swallow
CC	Central Creek Watershed
COPEC	chemical of potential ecological concern
EcoPRG	ecological preliminary remediation goal
FCM	food chain model (refined FCM using site-specific BERA inputs)
GPC	Goose Prairie Creek Watershed
GPC Cove	GPC Cove of Caddo Lake
HB	Harrison Bayou Watershed
LOAEL	lowest observed adverse effect level
NA	not applicable (see text for discussion)
NOAEL	no observed adverse effect level
RAC	Raccoon
RAC (LBB)	Raccoon (Louisiana Black Bear)
TRV	toxicity reference value
Tox	site-specific toxicity study conducted using LHAAP sediment, see text for discussion.

Footnotes:

[a] See text for discussion of the Rule of Five.

[b] The Rule of Five Node (1 through 7) selected based on the TRV endpoint of concern and other considerations; see text for discussion.

[c] The Final EcoPRG recommended for risk management consideration.

[d] The thallium EcoPRG of 0.36 mg/kg should be used with caution, as it is below the range of background sediment sample detection limits. In addition, the sediment-to-aquatic invertebrate BAF factor used in the food chain model (used to estimate the EcoPRG) is an assumed value, and this BAF is highly uncertain. Thus, the thallium EcoPRG should be used with caution, as it is likely unnecessarily restrictive, difficult to delineate, and below background concentrations. Use of an alternative BAF would result in an increase of the EcoPRG from 0.36 mg/kg to 0.76 mg/kg, see text for discussion.

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Appendices/Exhibit

Appendices L – P / Exhibit 1

(Appendix O and Exhibit 1 on compact disks)

Appendix L

Chromium Speciation Study Results

Appendix L
Chromium Speciation Study Results
Soil Samples Collected at LHAAP, Karnack, Texas

LOCATION_CODE	GROUP_NAME	PARAMETER	SAMPLE_NO	SAMPLE_DATE	START_DEPTH	END_DEPTH	UNITS	RESULT	QUALIFIER	VALIDATION_QUALIFIER	CASNO	DETECT	DETECT_LIMIT
ERASS01	MISCELLANEOUS	Percent Solids	ERASS01-04252006	25-APR-06	0	0.5	Percent	87.4			10-02-6	Y	0
ERASS01	MISCELLANEOUS	Chromium	ERASS01-04252006	25-APR-06	0	0.5	mg/kg	23.6			7440-47-3	Y	0.83
ERASS01	MISCELLANEOUS	Hexavalent Chromium	ERASS01-04252006	25-APR-06	0	0.5	mg/kg	1.15	U	U	18540-29-9	N	1.15
ERASS02	MISCELLANEOUS	Percent Solids	ERASS02-04252006	25-APR-06	0	0.5	Percent	84.6			10-02-6	Y	0
ERASS02	MISCELLANEOUS	Hexavalent Chromium	ERASS02-04252006	25-APR-06	0	0.5	mg/kg	0.148	J	J	18540-29-9	Y	0.239
ERASS02	MISCELLANEOUS	Chromium	ERASS02-04252006	25-APR-06	0	0.5	mg/kg	21.6			7440-47-3	Y	0.909
ERASS03	MISCELLANEOUS	Percent Solids	ERASS03-04252006	25-APR-06	0	0.5	Percent	91.3			10-02-6	Y	0
ERASS03	MISCELLANEOUS	Hexavalent Chromium	ERASS03-04252006	25-APR-06	0	0.5	mg/kg	1.11	U	U	18540-29-9	N	1.11
ERASS03	MISCELLANEOUS	Chromium	ERASS03-04252006	25-APR-06	0	0.5	mg/kg	11.3			7440-47-3	Y	0.794
ERASS04	MISCELLANEOUS	Percent Solids	ERASS04-04252006	25-APR-06	0	0.5	Percent	90.8			10-02-6	Y	0
ERASS04	MISCELLANEOUS	Chromium	ERASS04-04252006	25-APR-06	0	0.5	mg/kg	21.9			7440-47-3	Y	0.81
ERASS04	MISCELLANEOUS	Hexavalent Chromium	ERASS04-04252006	25-APR-06	0	0.5	mg/kg	1.11	U	U	18540-29-9	N	1.11
ERASS06	MISCELLANEOUS	Percent Solids	ERASS06-04252006	25-APR-06	0	0.5	Percent	84.3			10-02-6	Y	0
ERASS06	MISCELLANEOUS	Chromium	ERASS06-04252006	25-APR-06	0	0.5	mg/kg	44.7			7440-47-3	Y	0.865
ERASS06	MISCELLANEOUS	Hexavalent Chromium	ERASS06-04252006	25-APR-06	0	0.5	mg/kg	1.17	U	U	18540-29-9	N	1.17
ERASS07	MISCELLANEOUS	Percent Solids	ERASS07-04252006	25-APR-06	0	0.5	Percent	84.2			10-02-6	Y	0
ERASS07	MISCELLANEOUS	Chromium	ERASS07-04252006	25-APR-06	0	0.5	mg/kg	56.8			7440-47-3	Y	0.808
ERASS07	MISCELLANEOUS	Hexavalent Chromium	ERASS07-04252006	25-APR-06	0	0.5	mg/kg	1.17	U	U	18540-29-9	N	1.17
ERASS08	MISCELLANEOUS	Percent Solids	ERASS08-04252006	25-APR-06	0	0.5	Percent	92.9			10-02-6	Y	0
ERASS08	MISCELLANEOUS	Hexavalent Chromium	ERASS08-04252006	25-APR-06	0	0.5	mg/kg	1.08	U	U	18540-29-9	N	1.08
ERASS08	MISCELLANEOUS	Chromium	ERASS08QC-04252006	25-APR-06	0	0.5	mg/kg	32.7			7440-47-3	Y	0.736
ERASS08	MISCELLANEOUS	Hexavalent Chromium	ERASS08QC-04252006	25-APR-06	0	0.5	mg/kg	1.08	U	U	18540-29-9	N	1.08
ERASS08	MISCELLANEOUS	Percent Solids	ERASS08QC-04252006	25-APR-06	0	0.5	Percent	93.7			10-02-6	Y	0
ERASS08	MISCELLANEOUS	Chromium	ERASS08-04252006	25-APR-06	0	0.5	mg/kg	31.9			7440-47-3	Y	0.791
ERASS09	MISCELLANEOUS	Percent Solids	ERASS09-04252006	25-APR-06	0	0.5	Percent	93.2			10-02-6	Y	0
ERASS09	MISCELLANEOUS	Chromium	ERASS09-04252006	25-APR-06	0	0.5	mg/kg	69.8			7440-47-3	Y	0.735
ERASS09	MISCELLANEOUS	Hexavalent Chromium	ERASS09-04252006	25-APR-06	0	0.5	mg/kg	0.58	J	J	18540-29-9	Y	1.07
ERASS10	MISCELLANEOUS	Percent Solids	ERASS10-04252006	25-APR-06	0	0.5	Percent	91.2			10-02-6	Y	0
ERASS10	MISCELLANEOUS	Chromium	ERASS10-04252006	25-APR-06	0	0.5	mg/kg	22.7			7440-47-3	Y	0.8
ERASS10	MISCELLANEOUS	Hexavalent Chromium	ERASS10-04252006	25-APR-06	0	0.5	mg/kg	1.11	U	U	18540-29-9	N	1.11
ERASS11	MISCELLANEOUS	Percent Solids	ERASS11-04252006	25-APR-06	0	0.5	Percent	90.4			10-02-6	Y	0
ERASS11	MISCELLANEOUS	Hexavalent Chromium	ERASS11-04252006	25-APR-06	0	0.5	mg/kg	0.22	U	U	18540-29-9	N	0.22
ERASS11	MISCELLANEOUS	Chromium	ERASS11-04252006	25-APR-06	0	0.5	mg/kg	70.6			7440-47-3	Y	0.82
ERASS12	MISCELLANEOUS	Percent Solids	ERASS12-04252006	25-APR-06	0	0.5	Percent	88.1			10-02-6	Y	0
ERASS12	MISCELLANEOUS	Chromium	ERASS12-04252006	25-APR-06	0	0.5	mg/kg	28.9		J	7440-47-3	Y	0.873
ERASS12	MISCELLANEOUS	Hexavalent Chromium	ERASS12-04252006	25-APR-06	0	0.5	mg/kg	1.12	U	U	18540-29-9	N	1.12
ERASS13	MISCELLANEOUS	Percent Solids	ERASS13-04252006	25-APR-06	0	0.5	Percent	88			10-02-6	Y	0
ERASS13	MISCELLANEOUS	Hexavalent Chromium	ERASS13-04252006	25-APR-06	0	0.5	mg/kg	1.14	U	U	18540-29-9	N	1.14
ERASS13	MISCELLANEOUS	Chromium	ERASS13-04252006	25-APR-06	0	0.5	mg/kg	10.8		J	7440-47-3	Y	0.778
ERASS14	MISCELLANEOUS	Percent Solids	ERASS14-04252006	25-APR-06	0	0.5	Percent	85.9			10-02-6	Y	0
ERASS14	MISCELLANEOUS	Chromium	ERASS14-04252006	25-APR-06	0	0.5	mg/kg	27.2		J	7440-47-3	Y	0.832
ERASS14	MISCELLANEOUS	Hexavalent Chromium	ERASS14-04252006	25-APR-06	0	0.5	mg/kg	1.18	U	U	18540-29-9	N	1.18
ERASS15	MISCELLANEOUS	Percent Solids	ERASS15-04252006	25-APR-06	0	0.5	Percent	83.6			10-02-6	Y	0
ERASS15	MISCELLANEOUS	Chromium	ERASS15-04252006	25-APR-06	0	0.5	mg/kg	31.8		J	7440-47-3	Y	0.855
ERASS15	MISCELLANEOUS	Hexavalent Chromium	ERASS15-04252006	25-APR-06	0	0.5	mg/kg	0.592	U	U	18540-29-9	N	0.592
ERASS16	MISCELLANEOUS	Percent Solids	ERASS16-04252006	25-APR-06	0	0.5	Percent	91.3			10-02-6	Y	0
ERASS16	MISCELLANEOUS	Chromium	ERASS16-04252006	25-APR-06	0	0.5	mg/kg	42.1		J	7440-47-3	Y	0.842
ERASS16	MISCELLANEOUS	Hexavalent Chromium	ERASS16-04252006	25-APR-06	0	0.5	mg/kg	1.06	U	U	18540-29-9	N	1.06
ERASS17	MISCELLANEOUS	Percent Solids	ERASS17-04252006	25-APR-06	0	0.5	Percent	81.7			10-02-6	Y	0
ERASS17	MISCELLANEOUS	Chromium	ERASS17-04252006	25-APR-06	0	0.5	mg/kg	58.4		J	7440-47-3	Y	0.942
ERASS17	MISCELLANEOUS	Hexavalent Chromium	ERASS17-04252006	25-APR-06	0	0.5	mg/kg	0.06	U	U	18540-29-9	N	0.06
ERASS18	MISCELLANEOUS	Percent Solids	ERASS18-04252006	25-APR-06	0	0.5	Percent	84.6			10-02-6	Y	0
ERASS18	MISCELLANEOUS	Chromium	ERASS18-04252006	25-APR-06	0	0.5	mg/kg	21			7440-47-3	Y	0.804
ERASS18	MISCELLANEOUS	Hexavalent Chromium	ERASS18-04252006	25-APR-06	0	0.5	mg/kg	1.17	U	U	18540-29-9	N	1.17

Appendix M

BERA Bioaccumulation Factor Data Analysis

M-1
Regression Equation Analysis

Table M-1-1
Barium Soil-to-Earthworm Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.943875935
R Square	0.890901781
Adjusted R Square	0.877264504
Standard Error	0.40234105
Observations	10

Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	10.57525488	10.57525488	65.32841983	4.05528E-05
Residual	8	1.295026564	0.16187832		
Total	9	11.87028145			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	-1.923221389	0.431086438	-4.46133587	0.002107322	-2.917308497	-0.929134281	-2.917308497	-0.929134281
Nat Log Soil Conc	0.624189338	0.077226307	8.082599819	4.05528E-05	0.446105154	0.802273522	0.446105154	0.802273522

RESIDUAL OUTPUT

Observation	*Predicted Nat Log EW*	*Residuals*
1	2.970372685	-0.310113148
2	0.45975394	0.456536792
3	2.905699015	0.001202044
4	2.937579442	0.405282363
5	0.519868793	-0.519868793
6	0.549075961	-0.286711696
7	1.200188543	-0.458251198
8	1.080492778	0.018119511
9	0.824353504	0.240357233
10	0.611263845	0.453446892

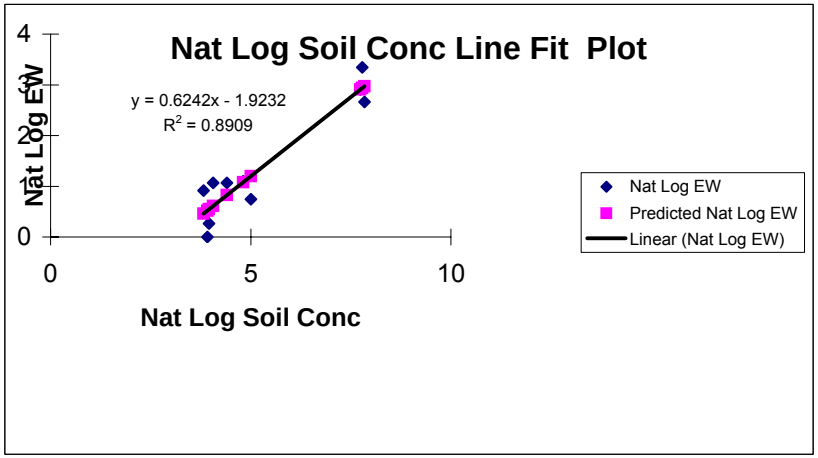


Table M-1-2
Cadmium Soil-to-Earthworm Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.945476503
R Square	0.893925817
Adjusted R Square	0.880666544
Standard Error	0.22042392
Observations	10

Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	3.275662984	3.275662984	67.41891687	3.61918E-05
Residual	8	0.388693635	0.048586704		
Total	9	3.664356619			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.419953823	0.093464787	4.493176936	0.00202024	0.204423639	0.635484007	0.204423639	0.635484007
Nat Log Soil Conc	0.36025633	0.043875364	8.210902318	3.61918E-05	0.259079558	0.461433101	0.259079558	0.461433101

RESIDUAL OUTPUT

Observation	*Predicted Nat Log EW*	*Residuals*
1	0.750053359	-0.008116014
2	-0.843305855	0.381270395
3	0.815735854	0.177515919
4	0.51447221	0.016156041
5	-0.240245249	0.029524218
6	-0.428045765	0.012530321
7	0.132286371	-0.162745579
8	-0.409567031	-0.206619108
9	-0.64514818	0.117515438
10	-0.5592591	-0.357031632

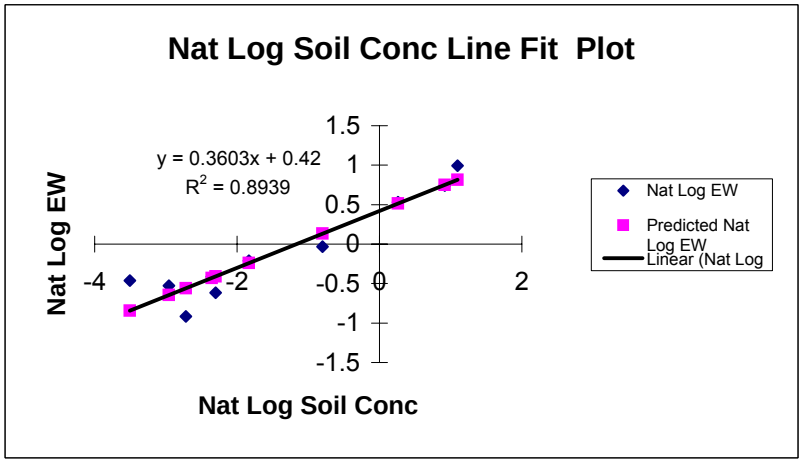


Table M-1-3
Chromium Soil-to-Earthworm Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.629841947
R Square	0.396700878
Adjusted R Square	0.321288488
Standard Error	0.22575194
Observations	10

Not Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.268091742	0.268091742	5.26042043	0.050980712
Residual	8	0.407711506	0.050963938		
Total	9	0.675803249			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	-2.605262455	0.486307204	-5.357235987	0.000679922	-3.726688879	-1.483836032	-3.726688879	-1.483836032
Nat Log Soil Conc	0.443440416	0.193341483	2.293560644	0.050980712	-0.002405843	0.889286675	-0.002405843	0.889286675

RESIDUAL OUTPUT

Observation	*Predicted Nat Log EW*	*Residuals*
1	-1.34630032	0.073334644
2	-1.611641218	-0.160315624
3	-1.214857596	-0.05810808
4	-1.537925715	-0.022722033
5	-1.666829229	0.280534868
6	-1.514581356	0.167507708
7	-1.253091549	0.113657266
8	-1.530006926	-0.436105931
9	-1.666829229	0.197153259
10	-1.677645385	-0.154936078

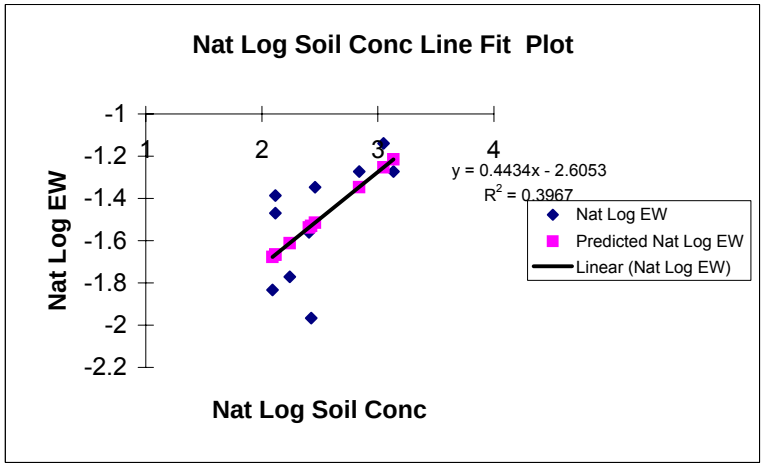


Table M-1-4
Lead Soil-to-Earthworm Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.957467675
R Square	0.916744349
Adjusted R Square	0.906337393
Standard Error	0.649557801
Observations	10

Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	37.16722319	37.16722319	88.08957394	1.35992E-05
Residual	8	3.375402697	0.421925337		
Total	9	40.54262588			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	-4.040736311	0.494495089	-8.171438712	3.7475E-05	-5.18104403	-2.900428593	-5.18104403	-2.900428593
Nat Log Soil Conc	1.010158315	0.107628475	9.385604613	1.35992E-05	0.761966606	1.258350024	0.761966606	1.258350024

RESIDUAL OUTPUT

Observation	*Predicted Nat Log EW*	*Residuals*
1	2.036534866	-0.44729966
2	-2.03266851	1.18869844
3	1.763838619	-0.041072021
4	0.355035707	-0.092671442
5	-1.190696971	0.323196403
6	-0.352993535	-0.563297197
7	-0.805455362	0.243336444
8	-1.582401546	-1.02128864
9	-0.904612265	-0.062971762
10	4.523842838	0.473369436

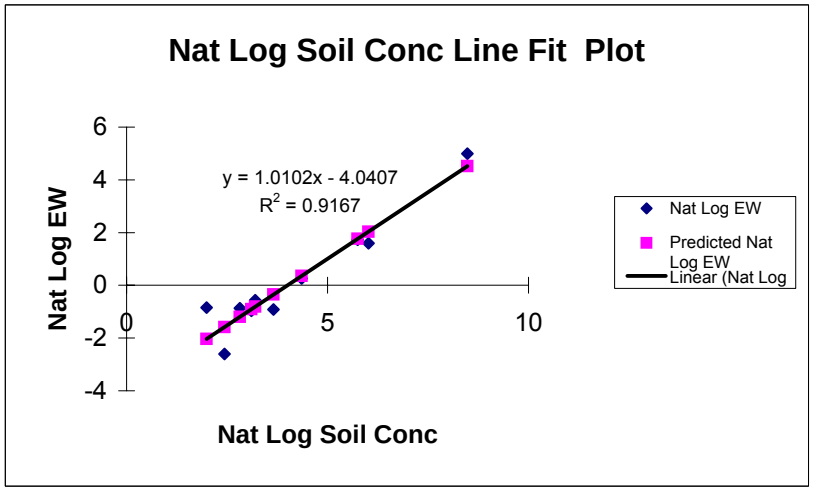


Table M-1-5
Zinc Soil-to-Earthworm Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.162705958
R Square	0.026473229
Adjusted R Square	-0.095217618
Standard Error	0.128035633
Observations	10

Not Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.003566241	0.003566241	0.217544946	0.65335433
Residual	8	0.131144987	0.016393123		
Total	9	0.134711228			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	2.863604016	0.15355108	18.64919493	7.05302E-08	2.509514592	3.217693441	2.509514592	3.217693441
Nat Log Soil Conc	0.0159623	0.034223227	0.466417138	0.65335433	-0.062956604	0.094881203	-0.062956604	0.094881203

RESIDUAL OUTPUT

Observation	*Predicted Nat Log EW*	*Residuals*
1	2.955779138	-0.027255614
2	2.903792242	-0.041591361
3	2.94558317	-0.00114419
4	2.935747422	-0.138466087
5	2.942138226	-0.013614702
6	2.91685057	0.048422497
7	2.956880423	0.092392618
8	2.943153838	-0.127745119
9	2.902309444	-0.0690961
10	2.924648385	0.278098058

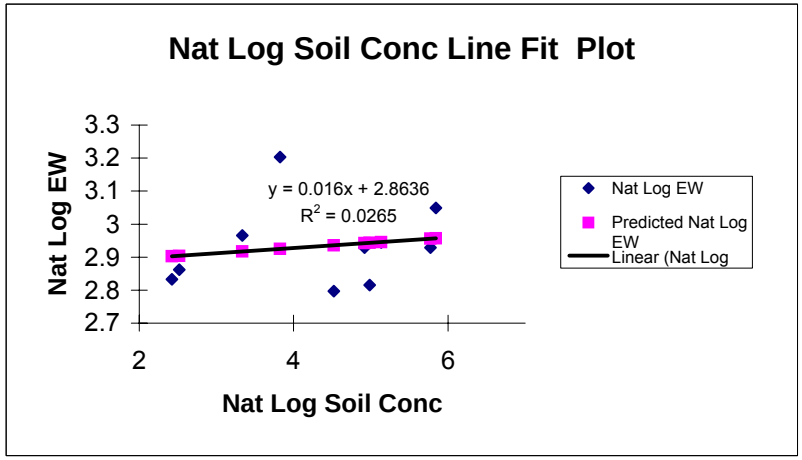


Table M-1-6
Barium Soil-to-Plant Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.104326292
R Square	0.010883975
Adjusted R Square	-0.112755528
Standard Error	1.279253951
Observations	10

Not Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.144060138	0.144060138	0.088029917	0.774253931
Residual	8	13.09192538	1.636490672		
Total	9	13.23598552			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	3.475657577	1.370650669	2.535771992	0.03494001	0.31493147	6.636383685	0.31493147	6.636383685
Nat Log Soil Conc	0.072852228	0.245543076	0.29669836	0.774253931	-0.493371119	0.639075575	-0.493371119	0.639075575

RESIDUAL OUTPUT

Observation	*Predicted Nat Log Plant Conc*	*Residuals*
1	4.046813169	-1.184612288
2	3.753786426	-0.245230526
3	4.039264785	-0.586107664
4	4.042985707	1.48644338
5	3.760802728	0.87392626
6	3.764211641	-2.37791728
7	3.840206214	0.15615794
8	3.826235929	0.308930628
9	3.796340646	1.592731084
10	3.771469897	-0.024321535

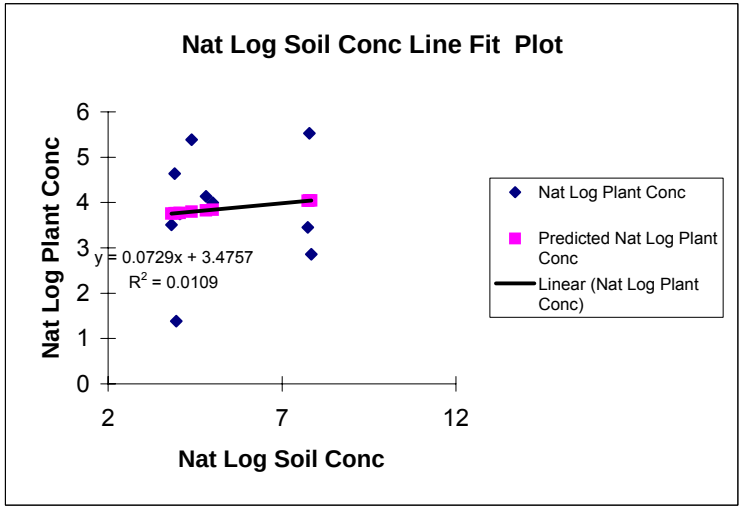


Table M-1-7
Cadmium Soil-to-Plant Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.000754026
R Square	5.68555E-07
Adjusted R Square	-0.12499936
Standard Error	1.050321675
Observations	10

Not Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	5.01773E-06	5.01773E-06	4.54844E-06	0.99835057
Residual	8	8.825404968	1.103175621		
Total	9	8.825409986			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	-1.552488983	0.445360428	-3.485915872	0.008247696	-2.57949197	-0.525485996	-2.57949197	-0.525485996
Nat Log Soil Conc	0.000445878	0.209066448	0.002132708	0.99835057	-0.481662216	0.482553972	-0.481662216	0.482553972

RESIDUAL OUTPUT

Observation	*Predicted Nat Log Plant Conc*	*Residuals*
1	-1.55208043	-1.594474734
2	-1.554052479	0.084376509
3	-1.551999137	1.22349507
4	-1.552372001	-0.108359206
5	-1.55330609	1.330162539
6	-1.553538525	-1.593016638
7	-1.55284502	0.503022895
8	-1.553515654	0.083839684
9	-1.553807226	0.349834421
10	-1.553700923	-0.27888054

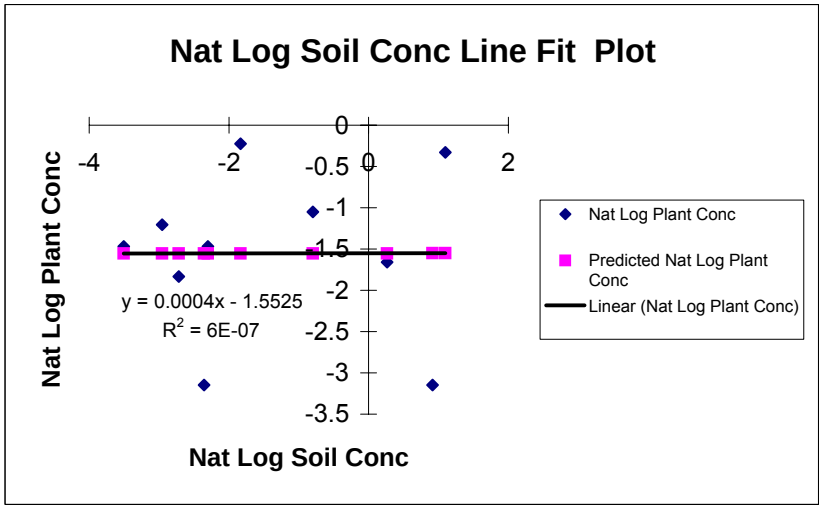


Table M-1-8
Chromium Soil-to-Plant Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.30225174
R Square	0.091356114
Adjusted R Square	-0.022224371
Standard Error	0.348077015
Observations	10

Not Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.097450616	0.097450616	0.804329315	0.395987897
Residual	8	0.969260868	0.121157609		
Total	9	1.066711485			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	0.893590492	0.749815751	1.191746761	0.267512244	-0.835487728	2.622668712	-0.835487728	2.622668712
Nat Log Soil Conc	-0.267353485	0.298104753	-0.896844086	0.395987897	-0.954784278	0.420077308	-0.954784278	0.420077308

RESIDUAL OUTPUT

Observation	*Predicted Nat Log Plant Conc*	*Residuals*
1	0.134552971	-0.039242791
2	0.294528948	0.447408397
3	0.055305187	0.12701637
4	0.250085329	0.086386907
5	0.327802205	-0.065437941
6	0.236010844	-0.297886248
7	0.078356718	0.103964839
8	0.245311033	-0.532993106
9	0.327802205	-0.327802205
10	0.334323345	0.498585778

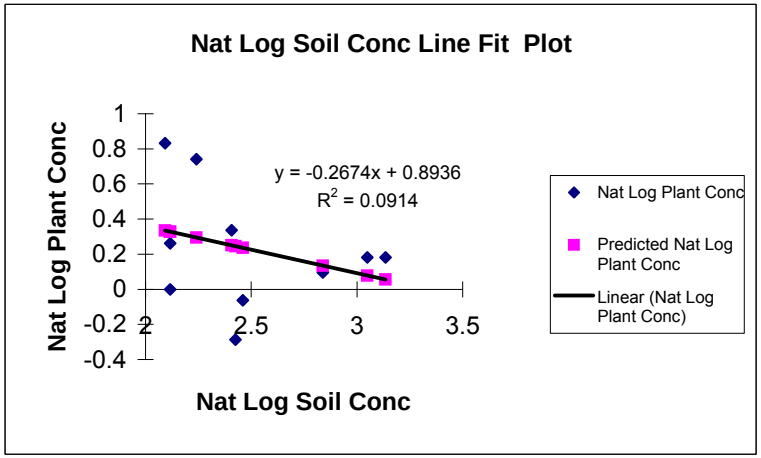


Table M-1-9
Lead Soil-to-Plant Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.396929596
R Square	0.157553104
Adjusted R Square	0.052247242
Standard Error	0.33515813
Observations	10

Not Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.168063706	0.168063706	1.496147522	0.256070352
Residual	8	0.898647779	0.112330972		
Total	9	1.066711485			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	-0.055483611	0.25514904	-0.217455693	0.833296916	-0.643858352	0.53289113	-0.643858352	0.53289113
Nat Log Soil Conc	0.067927613	0.055534024	1.223171093	0.256070352	-0.060134076	0.195989302	-0.060134076	0.195989302

RESIDUAL OUTPUT

Observation	*Predicted Nat Log Plant Conc*	*Residuals*
1	0.353179583	-0.257869404
2	0.079547948	0.662389397
3	0.334842255	-0.152520698
4	0.240107976	0.09636426
5	0.136165922	0.126198343
6	0.192496889	-0.254372292
7	0.162071309	0.020250248
8	0.109825935	-0.397508007
9	0.155403551	-0.155403551
10	0.520437419	0.312471704

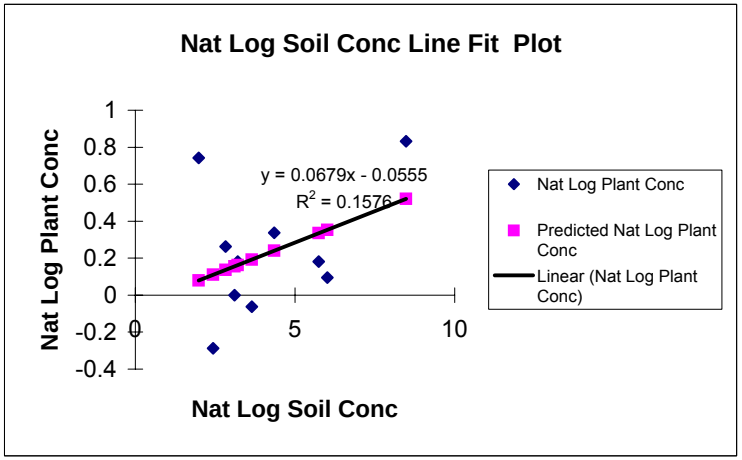


Table M-1-10
Zinc Soil-to-Plant Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.28033871
R Square	0.078589792
Adjusted R Square	-0.036586484
Standard Error	0.705820302
Observations	10

Not Significant; R^2 must be at least 0.399 for model with sample size of 10 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.339931493	0.339931493	0.682343579	0.432723517
Residual	8	3.985458392	0.498182299		
Total	9	4.325389885			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	3.762261997	0.84647896	4.444601906	0.002154712	1.810278018	5.714245977	1.810278018	5.714245977
Nat Log Soil Conc	0.155842464	0.188661921	0.826040906	0.432723517	-0.279212705	0.590897634	-0.279212705	0.590897634

RESIDUAL OUTPUT

Observation	*Predicted Nat Log Plant Conc*	*Residuals*
1	4.66218234	-0.557887446
2	4.15462602	0.665655546
3	4.562637481	-0.109453652
4	4.466609515	-0.558594531
5	4.529003948	1.073114873
6	4.282116548	-1.001205332
7	4.672934359	-0.143565886
8	4.538919534	0.45829274
9	4.140149229	-0.416868348
10	4.358247854	0.590512037

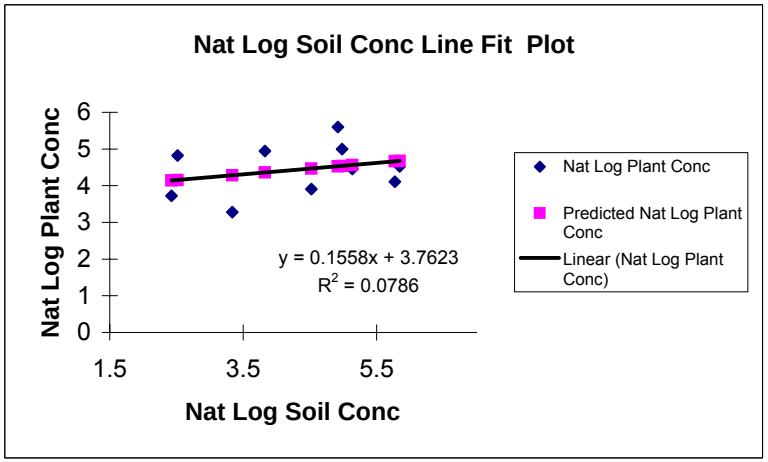


Table M-1-11
Lead Sediment-to-Benthic Invertebrate Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.908946863
R Square	0.8261844
Adjusted R Square	0.797215133
Standard Error	0.799150416
Observations	8

Significant; R^2 must be at least 0.500 for model with sample size of 8 to be significant at the P<0.05 level.

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	18.21363158	18.21363158	28.5193411	0.001760698
Residual	6	3.831848327	0.638641388		
Total	7	22.04547991			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	-3.013725041	1.139869818	-2.643920379	0.038338917	-5.802886003	-0.22456408	-5.802886003	-0.22456408
X Variable 1	1.372729253	0.257048542	5.340350279	0.001760698	0.743754131	2.001704376	0.743754131	2.001704376

RESIDUAL OUTPUT

Observation	*Predicted Y*	*Residuals*
1	4.543604608	-0.283745607
2	5.035453005	0.112041472
3	4.19622434	0.939574097
4	3.299665606	-1.382742994
5	2.297522996	0.36970521
6	1.575119148	0.757024747
7	1.399418038	-0.483127306
8	0.7218768	-0.028729619

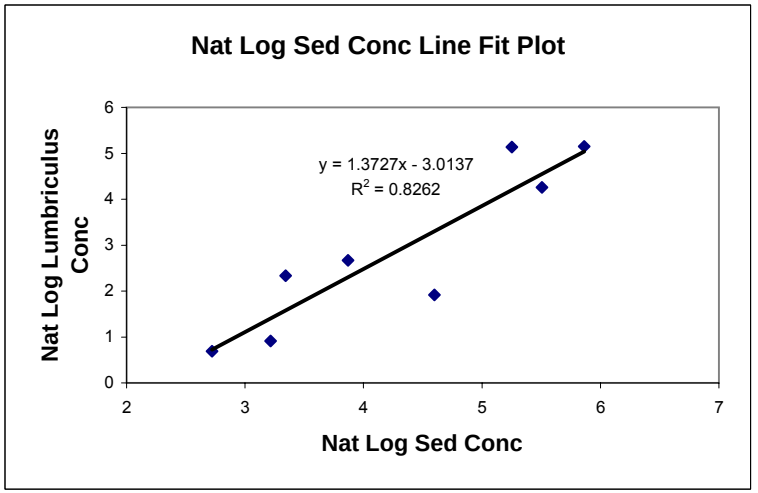


Table M-1-12
Mercury Sediment-to-Benthic Invertebrate Bioaccumulation Regression Analysis
Log-Transformed Data

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.214388143
R Square	0.045962276
Adjusted R Square	-0.113044011
Standard Error	0.488078503
Observations	8

Not Significant; R^2 must be at least 0.500 for model with sample size of 8 to be significant at the P<0.05 level.

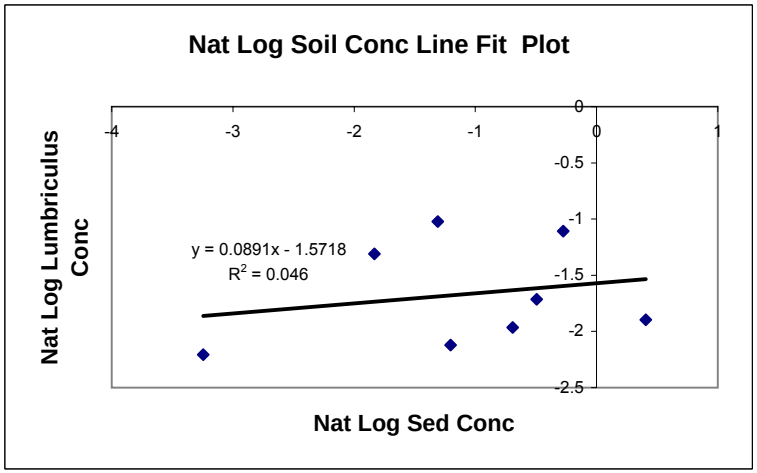
ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	0.068859932	0.068859932	0.289059488	0.610169602
Residual	6	1.429323753	0.238220626		
Total	7	1.498183685			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	-1.571809974	0.24877289	-6.318252667	0.000734194	-2.180535306	-0.963084643	-2.180535306	-0.963084643
X Variable 1	0.089138661	0.165795405	0.537642528	0.610169602	-0.316548081	0.494825402	-0.316548081	0.494825402

RESIDUAL OUTPUT

Observation	*Predicted Y*	*Residuals*
1	-1.535667358	-0.361452627
2	-1.596272907	0.487610283
3	-1.615870887	-0.098927541
4	-1.633596186	-0.332516671
5	-1.679130498	-0.441133038
6	-1.688522193	0.666870946
7	-1.735163832	0.425830512
8	-1.86099305	-0.346281863



M-2
Calculation of Uptake Factor Ratio

Table M-2-1
Derivation of Soil-Earthworm Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

BARIUM

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Barium	2540		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
Barium	14.3		mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE (earthworm)
BAF =	0.0056299					
Barium	45.5		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
Barium	2.5	J	mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE (earthworm)
BAF =	0.0549451					
Barium	2290		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
Barium	18.3		mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE (earthworm)
BAF =	0.0079913					
Barium	2410		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
Barium	28.3		mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE (earthworm)
BAF =	0.0117427					
Barium	50.1		mg/kg	25C-56	25C56-BERA-SS03	SOIL
Barium	1	J	mg/kg	25C-56	25C56-BERA-SS03EF	TISSUE (earthworm)
BAF =	0.0199601					
Barium	52.5		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
Barium	1.3	J	mg/kg	LH-DL723-01	LHDL723-01-BE-SS02EF	TISSUE (earthworm)
BAF =	0.0247619					
Barium	149		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
Barium	2.1	J	mg/kg	LH-S24-01	LHS24-01-BERA-SS01EF	TISSUE (earthworm)
BAF =	0.014094					
Barium	123		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
Barium	3	J	mg/kg	LHSMW02	LHSMW02-BERA-SS04EF	TISSUE (earthworm)
BAF =	0.0243902					
Barium	81.6		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
Barium	2.9	J	mg/kg	LHSMW50	LHSMW50-BERA-SS05EF	TISSUE (earthworm)
BAF =	0.0355392					
Barium	58		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
Barium	2.9	J	mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE (earthworm)
BAF =	0.05					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**0.0249054**					
BAF Geometric Mean =	**0.0196911**					

Table M-2-1
Derivation of Soil-Earthworm Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

CADMIUM

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Cadmium	2.5		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
Cadmium	2.1		mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE (earthworm)
BAF =	0.84					
Cadmium	0.03	J	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
Cadmium	0.63		mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE (earthworm)
BAF =	21					
Cadmium	3		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
Cadmium	2.7		mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE (earthworm)
BAF =	0.9					
Cadmium	1.3		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
Cadmium	1.7		mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE (earthworm)
BAF =	1.3076923					
Cadmium	0.16		mg/kg	25C-56	25C56-BERA-SS03	SOIL
Cadmium	0.81		mg/kg	25C-56	25C56-BERA-SS03EF	TISSUE (earthworm)
BAF =	5.0625					
Cadmium	0.095	J	mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
Cadmium	0.66		mg/kg	LH-DL723-01	LHDL723-01-BE-SS02EF	TISSUE (earthworm)
BAF =	6.9473684					
Cadmium	0.45		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
Cadmium	0.97		mg/kg	LH-S24-01	LHS24-01-BERA-SS01EF	TISSUE (earthworm)
BAF =	2.1555556					
Cadmium	0.1	J	mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
Cadmium	0.54		mg/kg	LHSMW02	LHSMW02-BERA-SS04EF	TISSUE (earthworm)
BAF =	5.4					
Cadmium	0.052	J	mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
Cadmium	0.59		mg/kg	LHSMW50	LHSMW50-BERA-SS05EF	TISSUE (earthworm)
BAF =	11.346154					
Cadmium	0.066	J	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
Cadmium	0.4		mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE (earthworm)
BAF =	6.0606061					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**6.1019876**					
BAF Geometric Mean =	**3.7728972**					

Table M-2-1
Derivation of Soil-Earthworm Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

CHROMIUM

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Chromium	17.1		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
Chromium	0.28	B	mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE (earthworm)
	BAF = 0.0163743					
Chromium	9.4		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
Chromium	0.17	B	mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE (earthworm)
	BAF = 0.0180851					
Chromium	23		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
Chromium	0.28	B	mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE (earthworm)
	BAF = 0.0121739					
Chromium	11.1		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
Chromium	0.21	B	mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE (earthworm)
	BAF = 0.0189189					
Chromium	8.3		mg/kg	25C-56	25C56-BERA-SS03	SOIL
Chromium	0.25	B	mg/kg	25C-56	25C56-BERA-SS03EF	TISSUE (earthworm)
	BAF = 0.0301205					
Chromium	11.7		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
Chromium	0.26	B	mg/kg	LH-DL723-01	LHDL723-01-BE-SS02EF	TISSUE (earthworm)
	BAF = 0.0222222					
Chromium	21.1		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
Chromium	0.32	B	mg/kg	LH-S24-01	LHS24-01-BERA-SS01EF	TISSUE (earthworm)
	BAF = 0.0151659					
Chromium	11.3		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
Chromium	0.14	B	mg/kg	LHSMW02	LHSMW02-BERA-SS04EF	TISSUE (earthworm)
	BAF = 0.0123894					
Chromium	8.3		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
Chromium	0.23	B	mg/kg	LHSMW50	LHSMW50-BERA-SS05EF	TISSUE (earthworm)
	BAF = 0.0277108					
Chromium	8.1		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
Chromium	0.16	B	mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE (earthworm)
	BAF = 0.0197531					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**0.0192914**					
BAF Geometric Mean =	**0.0184998**					

Table M-2-1
Derivation of Soil-Earthworm Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

LEAD

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Lead	410		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
Lead	4.9	JH	mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE (earthworm)
BAF =	0.0119512					
Lead	7.3		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
Lead	0.43	JH	mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE (earthworm)
BAF =	0.0589041					
Lead	313		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
Lead	5.6	JH	mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE (earthworm)
BAF =	0.0178914					
Lead	77.6		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
Lead	1.3	JH	mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE (earthworm)
BAF =	0.0167526					
Lead	16.8		mg/kg	25C-56	25C56-BERA-SS03	SOIL
Lead	0.42	JH	mg/kg	25C-56	25C56-BERA-SS03EF	TISSUE (earthworm)
BAF =	0.025					
Lead	38.5		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
Lead	0.4	JH	mg/kg	LH-DL723-01	LHDL723-01-BE-SS02EF	TISSUE (earthworm)
BAF =	0.0103896					
Lead	24.6		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
Lead	0.57	JH	mg/kg	LH-S24-01	LHS24-01-BERA-SS01EF	TISSUE (earthworm)
BAF =	0.0231707					
Lead	11.4		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
Lead	0.074	JH	mg/kg	LHSMW02	LHSMW02-BERA-SS04EF	TISSUE (earthworm)
BAF =	0.0064912					
Lead	22.3		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
Lead	0.38	JH	mg/kg	LHSMW50	LHSMW50-BERA-SS05EF	TISSUE (earthworm)
BAF =	0.0170404					
Lead	4810		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
Lead	148	JH	mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE (earthworm)
BAF =	0.0307692					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**0.021836**					
BAF Geometric Mean =	**0.0183471**					

Table M-2-1
Derivation of Soil-Earthworm Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

ZINC

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Zinc	322		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
Zinc	18.7		mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE (earthworm)
	BAF = 0.0580745					
Zinc	12.4		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
Zinc	17.5		mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE (earthworm)
	BAF = 1.4112903					
Zinc	170		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
Zinc	19		mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE (earthworm)
	BAF = 0.1117647					
Zinc	91.8		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
Zinc	16.4		mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE (earthworm)
	BAF = 0.1786492					
Zinc	137		mg/kg	25C-56	25C56-BERA-SS03	SOIL
Zinc	18.7		mg/kg	25C-56	25C56-BERA-SS03EF	TISSUE (earthworm)
	BAF = 0.1364964					
Zinc	28.1		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
Zinc	19.4		mg/kg	LH-DL723-01	LHDL723-01-BE-SS02EF	TISSUE (earthworm)
	BAF = 0.6903915					
Zinc	345		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
Zinc	21.1		mg/kg	LH-S24-01	LHS24-01-BERA-SS01EF	TISSUE (earthworm)
	BAF = 0.0611594					
Zinc	146		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
Zinc	16.7		mg/kg	LHSMW02	LHSMW02-BERA-SS04EF	TISSUE (earthworm)
	BAF = 0.1143836					
Zinc	11.3		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
Zinc	17		mg/kg	LHSMW50	LHSMW50-BERA-SS05EF	TISSUE (earthworm)
	BAF = 1.5044248					
Zinc	45.8		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
Zinc	24.6		mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE (earthworm)
	BAF = 0.5371179					
	Sample Size = **n = 10**					
	BAF Arithmetic Mean = **0.4803752**					
	BAF Geometric Mean = **0.2477645**					

NOTE: BAFs for chemicals with tissue non-detects were calculated by using 1/2 the method detection limit (not shown) as a surrogate concentration for the non-detect result.

Table M-2-2
Derivation of Soil-Earthworm Explosives
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

2,4-DNT

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
2,4-DNT	34	JH	mg/kg	17SB02	17SB02-BERA-SS09	SOIL
2,4-DNT	0.25	U	mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE
BAF =	0.0004118					
2,4-DNT	0.28	U	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
2,4-DNT	0.25	U	mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE
BAF =	NA					
2,4-DNT	0.11	J	mg/kg	17SD07	17SD07-BERA-SS06	SOIL
2,4-DNT	0.25	U	mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE
BAF =	0.1272727					
2,4-DNT	0.28	U	mg/kg	17SS22	17SS22-BERA-SS08	SOIL
2,4-DNT	0.25	U	mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE
BAF =	NA					
2,4-DNT	0.28	U	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
2,4-DNT	0.25	U	mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE
BAF =	NA					
Sample Size =	**n = 2**					
BAF Arithmetic Mean =	**0.0638422**					
BAF Geometric Mean =	**0.0072392**					

2,6-DNT

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
2,6-DNT	4.3	JH	mg/kg	17SB02	17SB02-BERA-SS09	SOIL
2,6-DNT	0.25	U	mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE
BAF =	0.0081395					
2,6-DNT	0.28	U	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
2,6-DNT	0.25	U	mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE
BAF =	NA					
2,6-DNT	0.28	U	mg/kg	17SD07	17SD07-BERA-SS06	SOIL
2,6-DNT	0.25	U	mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE
BAF =	0.6862745					
2,6-DNT	0.28	U	mg/kg	17SS22	17SS22-BERA-SS08	SOIL
2,6-DNT	0.25	U	mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE
BAF =	NA					
2,6-DNT	0.28	U	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
2,6-DNT	0.25	U	mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE
BAF =	NA					
Sample Size =	**n = 2**					
BAF Arithmetic Mean =	**0.347207**					
BAF Geometric Mean =	**0.0747392**					

TNT

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
TNT	47	JH	mg/kg	17SB02	17SB02-BERA-SS09	SOIL
TNT	0.37		mg/kg	17SB02	17SB02-BERA-SS09EF	TISSUE
BAF =	0.0078723					
TNT	0.023	J	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
TNT	0.25	U	mg/kg	17SB04	17SB04-BERA-SS10EF	TISSUE
BAF =	0.673913					
TNT	0.12	J	mg/kg	17SD07	17SD07-BERA-SS06	SOIL
TNT	0.25	U	mg/kg	17SD07	17SD07-BERA-SS06EF	TISSUE
BAF =	0.1291667					
TNT	0.025	J	mg/kg	17SS22	17SS22-BERA-SS08	SOIL
TNT	0.25	U	mg/kg	17SS22	17SS22-BERA-SS08EF	TISSUE
BAF =	0.62					
TNT	0.28	U	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
TNT	0.25	U	mg/kg	N50E25	N50E25-BERA-SS07EF	TISSUE
BAF =	NA					
Sample Size =	**n = 4**					
BAF Arithmetic Mean =	**0.357738**					
BAF Geometric Mean =	**0.1435696**					

NOTE: BAFs for chemicals with tissue non-detects were calculated by using 1/2 the method detection limit (not shown) as a surrogate concentration for the non-detect result.

Table M-2-3
Derivation of Soil-Plant Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

BARIUM

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Barium	17.5		mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
Barium	2540		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
	BAF = 0.0068898					
Barium	33.4		mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
Barium	45.5		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
	BAF = 0.7340659					
Barium	31.6		mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
Barium	2290		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
	BAF = 0.0137991					
Barium	252		mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
Barium	2410		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
	BAF = 0.1045643					
Barium	103		mg/kg	25C-56	25C-56-BERA-PLG03	Plant (grass)
Barium	50.1		mg/kg	25C-56	25C-56-BERA-SS03	SOIL
	BAF = 2.0558882					
Barium	4	J	mg/kg	LH-DL723-01	LH-DL723-01BERAPLG02	Plant (grass)
Barium	52.5		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
	BAF = 0.0761905					
Barium	54.4		mg/kg	LH-S24-01	LH-S24-01-BERA-PLG01	Plant (grass)
Barium	149		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
	BAF = 0.3651007					
Barium	62.5		mg/kg	LHSMW02	LHSMW02-BERA-PLG04	Plant (grass)
Barium	123		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
	BAF = 0.5081301					
Barium	219		mg/kg	LHSMW50	LHSMW50-BERA-PLG05	Plant (grass)
Barium	81.6		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
	BAF = 2.6838235					
Barium	42.4		mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
Barium	58		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
	BAF = 0.7310345					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**0.7279487**					
BAF Geometric Mean =	**0.2300994**					

Table M-2-3
Derivation of Soil-Plant Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

CADMIUM

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Cadmium	0.043	J	mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
Cadmium	2.5		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
BAF =	0.0172					
Cadmium	0.23	J	mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
Cadmium	0.03	J	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
BAF =	7.6666667					
Cadmium	0.72		mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
Cadmium	3		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
BAF =	0.24					
Cadmium	0.19	J	mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
Cadmium	1.3		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
BAF =	0.1461538					
Cadmium	0.8		mg/kg	25C-56	25C-56-BERA-PLG03	Plant (grass)
Cadmium	0.16		mg/kg	25C-56	25C-56-BERA-SS03	SOIL
BAF =	5					
Cadmium	0.043		mg/kg	LH-DL723-01	LH-DL723-01BERAPLG02	Plant (grass)
Cadmium	0.095	J	mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
BAF =	0.4526316					
Cadmium	0.35	J	mg/kg	LH-S24-01	LH-S24-01-BERA-PLG01	Plant (grass)
Cadmium	0.45		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
BAF =	0.7777778					
Cadmium	0.23	J	mg/kg	LHSMW02	LHSMW02-BERA-PLG04	Plant (grass)
Cadmium	0.1	J	mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
BAF =	2.3					
Cadmium	0.3	J	mg/kg	LHSMW50	LHSMW50-BERA-PLG05	Plant (grass)
Cadmium	0.052	J	mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
BAF =	5.7692308					
Cadmium	0.16	J	mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
Cadmium	0.066	J	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
BAF =	2.4242424					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**2.4793903**					
BAF Geometric Mean =	**0.8746109**					

Table M-2-3
Derivation of Soil-Plant Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

CHROMIUM

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Chromium	1.1		mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
Chromium	17.1		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
	BAF = 0.0643275					
Chromium	2.1		mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
Chromium	9.4		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
	BAF = 0.2234043					
Chromium	1.2		mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
Chromium	23		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
	BAF = 0.0521739					
Chromium	1.4		mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
Chromium	11.1		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
	BAF = 0.1261261					
Chromium	1.3		mg/kg	25C-56	25C-56-BERA-PLG03	Plant (grass)
Chromium	8.3		mg/kg	25C-56	25C-56-BERA-SS03	SOIL
	BAF = 0.1566265					
Chromium	0.94		mg/kg	LH-DL723-01	LH-DL723-01BERAPLG02	Plant (grass)
Chromium	11.7		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
	BAF = 0.0803419					
Chromium	1.2		mg/kg	LH-S24-01	LH-S24-01-BERA-PLG01	Plant (grass)
Chromium	21.1		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
	BAF = 0.056872					
Chromium	0.75	J	mg/kg	LHSMW02	LHSMW02-BERA-PLG04	Plant (grass)
Chromium	11.3		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
	BAF = 0.0663717					
Chromium	1		mg/kg	LHSMW50	LHSMW50-BERA-PLG05	Plant (grass)
Chromium	8.3		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
	BAF = 0.1204819					
Chromium	2.3		mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
Chromium	8.1		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
	BAF = 0.2839506					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**0.1230676**					
BAF Geometric Mean =	**0.1043903**					

Table M-2-3
Derivation of Soil-Plant Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

LEAD

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Lead	0.58		mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
Lead	410		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
	BAF = 0.0014146					
Lead	0.93		mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
Lead	7.3		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
	BAF = 0.1273973					
Lead	1.2		mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
Lead	313		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
	BAF = 0.0038339					
Lead	0.23	J	mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
Lead	77.6		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
	BAF = 0.0029639					
Lead	0.31	J	mg/kg	25C-56	25C-56-BERA-PLG03	Plant (grass)
Lead	16.8		mg/kg	25C-56	25C-56-BERA-SS03	SOIL
	BAF = 0.0184524					
Lead	0.15	B	mg/kg	LH-DL723-01	LH-DL723-01BERAPLG02	Plant (grass)
Lead	38.5		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
	BAF = 0.0038961					
Lead	0.31	J	mg/kg	LH-S24-01	LH-S24-01-BERA-PLG01	Plant (grass)
Lead	24.6		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
	BAF = 0.0126016					
Lead	0.15	B	mg/kg	LHSMW02	LHSMW02-BERA-PLG04	Plant (grass)
Lead	11.4		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
	BAF = 0.0131579					
Lead	0.28	J	mg/kg	LHSMW50	LHSMW50-BERA-PLG05	Plant (grass)
Lead	22.3		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
	BAF = 0.0125561					
Lead	38.9		mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
Lead	4810		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
	BAF = 0.0080873					
	Sample Size = **n = 10**					
	BAF Arithmetic Mean = **0.0204361**					
	BAF Geometric Mean = **0.0086981**					

Table M-2-3
Derivation of Soil-Plant Metals
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

ZINC

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Zinc	60.6		mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
Zinc	322		mg/kg	17SB02	17SB02-BERA-SS09	SOIL
BAF =	0.1881988					
Zinc	124		mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
Zinc	12.4		mg/kg	17SB04	17SB04-BERA-SS10	SOIL
BAF =	10					
Zinc	85.9		mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
Zinc	170		mg/kg	17SD07	17SD07-BERA-SS06	SOIL
BAF =	0.5052941					
Zinc	49.8		mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
Zinc	91.8		mg/kg	17SS22	17SS22-BERA-SS08	SOIL
BAF =	0.5424837					
Zinc	271		mg/kg	25C-56	25C-56-BERA-PLG03	Plant (grass)
Zinc	137		mg/kg	25C-56	25C-56-BERA-SS03	SOIL
BAF =	1.9781022					
Zinc	26.6		mg/kg	LH-DL723-01	LH-DL723-01BERAPLG02	Plant (grass)
Zinc	28.1		mg/kg	LH-DL723-01	LH-DL723-01-BERASS02	SOIL
BAF =	0.9466192					
Zinc	92.7		mg/kg	LH-S24-01	LH-S24-01-BERA-PLG01	Plant (grass)
Zinc	345		mg/kg	LH-S24-01	LH-S24-01-BERA-SS01	SOIL
BAF =	0.2686957					
Zinc	148		mg/kg	LHSMW02	LHSMW02-BERA-PLG04	Plant (grass)
Zinc	146		mg/kg	LHSMW02	LHSMW02-BERA-SS04	SOIL
BAF =	1.0136986					
Zinc	41.4		mg/kg	LHSMW50	LHSMW50-BERA-PLG05	Plant (grass)
Zinc	11.3		mg/kg	LHSMW50	LHSMW50-BERA-SS05	SOIL
BAF =	3.6637168					
Zinc	141		mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
Zinc	45.8		mg/kg	N50E25	N50E25-BERA-SS07	SOIL
BAF =	3.0786026					
Sample Size =	**n = 10**					
BAF Arithmetic Mean =	**2.2185412**					
BAF Geometric Mean =	**1.1149148**					

NOTE: BAFs for chemicals with tissue non-detects were calculated by using 1/2 the method detection limit (not shown) as a surrogate concentration for the non-detect result.

Table M-2-4
Derivation of Soil-Plant Explosives
Bioaccumulation Factors (BAF) from Soil/ Tissue Pairs

2,4-DNT

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
2,4-DNT	4.4	U	mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
2,4-DNT	34	JH	mg/kg	17SB02	17SB02-BERA-SS09	SOIL
BAF =	0.0072059					
2,4-DNT	5.9	U	mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
2,4-DNT	0.28	U	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
BAF =	NA					
2,4-DNT	1.1	J	mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
2,4-DNT	0.11	J	mg/kg	17SD07	17SD07-BERA-SS06	SOIL
BAF =	10					
2,4-DNT	14	U	mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
2,4-DNT	0.28	U	mg/kg	17SS22	17SS22-BERA-SS08	SOIL
BAF =	NA					
2,4-DNT	7.3	U	mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
2,4-DNT	0.28	U	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
BAF =	NA					
Sample Size =	**n = 2**					
BAF Arithmetic Mean =	**5.0036029**					
BAF Geometric Mean =	**0.2684377**					

2,6-DNT

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
2,6-DNT	4.4	U	mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
2,6-DNT	4.3	JH	mg/kg	17SB02	17SB02-BERA-SS09	SOIL
BAF =	0.1395349					
2,6-DNT	5.9	U	mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
2,6-DNT	0.28	U	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
BAF =	NA					
2,6-DNT	6	U	mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
2,6-DNT	0.051	J	mg/kg	17SD07	17SD07-BERA-SS06DUP	SOIL
BAF =	16.666667					
2,6-DNT	14	U	mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
2,6-DNT	0.28	U	mg/kg	17SS22	17SS22-BERA-SS08	SOIL
BAF =	NA					
2,6-DNT	7.3	U	mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
2,6-DNT	0.28	U	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
BAF =	NA					
Sample Size =	**n = 2**					
BAF Arithmetic Mean =	**8.4031008**					
BAF Geometric Mean =	**1.5249857**					

TNT

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
TNT	4.4	U	mg/kg	17SB02	17SB02-BERA-PLG09	Plant (grass)
TNT	47	JH	mg/kg	17SB02	17SB02-BERA-SS09	SOIL
BAF =	0.0058511					
TNT	5.9	U	mg/kg	17SB04	17SB04-BERA-PLG10	Plant (grass)
TNT	0.023	J	mg/kg	17SB04	17SB04-BERA-SS10	SOIL
BAF =	15.869565					
TNT	6	U	mg/kg	17SD07	17SD07-BERA-PLG06	Plant (grass)
TNT	0.12	J	mg/kg	17SD07	17SD07-BERA-SS06	SOIL
BAF =	3.125					
TNT	14	U	mg/kg	17SS22	17SS22-BERA-PLG08	Plant (grass)
TNT	0.025	J	mg/kg	17SS22	17SS22-BERA-SS08	SOIL
BAF =	34					
TNT	7.3	U	mg/kg	N50E25	N50E25-BERA-PLG07	Plant (grass)
TNT	0.28	U	mg/kg	N50E25	N50E25-BERA-SS07	SOIL
BAF =	NA					
Sample Size =	**n = 4**					
BAF Arithmetic Mean =	**13.250104**					
BAF Geometric Mean =	**1.7722794**					

NOTE: BAFs for chemicals with tissue non-detects were calculated by using 1/2 the method detection limit (not shown) as a surrogate concentration for the non-detect result.

Table M-2-5
Derivation of Sediment-Benthic Invertebrate Metals
Bioaccumulation Factors (BAF) from Sediment/ Tissue Pairs

LEAD

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Lead	246		mg/kg	CL-GPSN-2	CL-GPSN-2-BERA-SD09	Sediment
Lead	70.8	JH	mg/kg	CL-GPSN-2	CL-GPSN-2LV-112906	TISSUE
BAF =	0.2878049					
Lead	352		mg/kg	CL-GPSN-3	CL-GPSN-3-BERA-SD02	Sediment
Lead	172	JH	mg/kg	CL-GPSN-3	CL-GPSN-3LV-112906	TISSUE
BAF =	0.4886364					
Lead	191		mg/kg	CL-GPSN-4	CL-GPSN-4-BERA-SD01	Sediment
Lead	170	JH	mg/kg	CL-GPSN-4	CL-GPSN-4LV-112906	TISSUE
BAF =	0.8900524					
Lead	99.4		mg/kg	CL-GPSS-2	CL-GPSS-2-BERA-SD04	Sediment
Lead	6.8	JH	mg/kg	CL-GPSS-2	CL-GPSS-2LV-112906	TISSUE
BAF =	0.0684105					
Lead	47.9		mg/kg	CL-GPSS-3	CL-GPSS-3-BERA-SD10	Sediment
Lead	14.4	JH	mg/kg	CL-GPSS-3	CL-GPSS-3LV-112906	TISSUE
BAF =	0.3006263					
Lead	28.3		mg/kg	GPWSD02	GPWSD02-BERA-SD11	Sediment
Lead	10.3	JH	mg/kg	GPWSD02	GPWSD02LV-112906	TISSUE
BAF =	0.3639576					
Lead	24.9		mg/kg	GPWSD03	GPWSD03-BERA-SD07	Sediment
Lead	2.5	JH	mg/kg	GPWSD03	GPWSD03LV-112906	TISSUE
BAF =	0.1004016					
Lead	15.2		mg/kg	IWSD06	IWSD06-BERA-SD06	Sediment
Lead	2	JH	mg/kg	IWSD06	IWSD06LV-112906	TISSUE
BAF =	0.1315789					
Sample Size =	**n = 8**					
BAF Arithmetic Mean =	**0.3289336**					
BAF Geometric Mean =	**0.2435445**					

Table M-2-5
Derivation of Sediment-Benthic Invertebrate Metals
Bioaccumulation Factors (BAF) from Sediment/ Tissue Pairs

MERCURY

Chemical		Result	Validation Qualifier	Units	Location	Sample #	Matrix
Mercury		1.5		mg/kg	CL-GPSN-2	CL-GPSN-2-BERA-SD09	Sediment
Mercury		0.15	J	mg/kg	CL-GPSN-2	CL-GPSN-2LV-112906	TISSUE
	BAF =	0.1					
Mercury		0.76		mg/kg	CL-GPSN-3	CL-GPSN-3-BERA-SD02	Sediment
Mercury		0.33		mg/kg	CL-GPSN-3	CL-GPSN-3LV-112906	TISSUE
	BAF =	0.4342105					
Mercury		0.61		mg/kg	CL-GPSN-4	CL-GPSN-4-BERA-SD01	Sediment
Mercury		0.18	J	mg/kg	CL-GPSN-4	CL-GPSN-4LV-112906	TISSUE
	BAF =	0.295082					
Mercury		0.5		mg/kg	CL-GPSS-2	CL-GPSS-2-BERA-SD04	Sediment
Mercury		0.14	J	mg/kg	CL-GPSS-2	CL-GPSS-2LV-112906	TISSUE
	BAF =	0.28					
Mercury		0.3		mg/kg	CL-GPSS-3	CL-GPSS-3-BERA-SD10	Sediment
Mercury		0.12	U	mg/kg	CL-GPSS-3	CL-GPSS-3LV-112906	TISSUE
	BAF =	0.2166667					
Mercury		0.27		mg/kg	GPWSD02	GPWSD02-BERA-SD11	Sediment
Mercury		0.36		mg/kg	GPWSD02	GPWSD02LV-112906	TISSUE
	BAF =	1.3333333					
Mercury		0.16		mg/kg	GPWSD03	GPWSD03-BERA-SD07	Sediment
Mercury		0.27		mg/kg	GPWSD03	GPWSD03LV-112906	TISSUE
	BAF =	1.6875					
Mercury		0.039	J	mg/kg	IWSD06	IWSD06-BERA-SD06	Sediment
Mercury		0.11	U	mg/kg	IWSD06	IWSD06LV-112906	TISSUE
	BAF =	1.6666667					
	Sample Size =	**n = 8**					
	BAF Arithmetic Mean =	**0.7516824**					
	BAF Geometric Mean =	**0.4820344**					

Table M-2-5
Derivation of Sediment-Benthic Invertebrate Metals
Bioaccumulation Factors (BAF) from Sediment/ Tissue Pairs

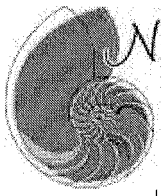
THALLIUM

Chemical	Result	Validation Qualifier	Units	Location	Sample #	Matrix
Thallium	0.26		mg/kg	CL-GPSN-2	CL-GPSN-2-BERA-SD09	Sediment
Thallium	0.082	U	mg/kg	CL-GPSN-2	CL-GPSN-2LV-112906	TISSUE
BAF =	44.230769					
Thallium	0.19	J	mg/kg	CL-GPSN-3	CL-GPSN-3-BERA-SD02	Sediment
Thallium	0.074	U	mg/kg	CL-GPSN-3	CL-GPSN-3LV-112906	TISSUE
BAF =	55.263158					
Thallium	0.25		mg/kg	CL-GPSN-4	CL-GPSN-4-BERA-SD01	Sediment
Thallium	0.082	U	mg/kg	CL-GPSN-4	CL-GPSN-4LV-112906	TISSUE
BAF =	46					
Thallium	0.19	J	mg/kg	CL-GPSS-2	CL-GPSS-2-BERA-SD04	Sediment
Thallium	0.079	U	mg/kg	CL-GPSS-2	CL-GPSS-2LV-112906	TISSUE
BAF =	60.526316					
Thallium	0.24	J	mg/kg	CL-GPSS-3	CL-GPSS-3-BERA-SD10	Sediment
Thallium	0.083	U	mg/kg	CL-GPSS-3	CL-GPSS-3LV-112906	TISSUE
BAF =	47.916667					
Thallium	0.11	J	mg/kg	GPWSD02	GPWSD02-BERA-SD11	Sediment
Thallium	0.074	U	mg/kg	GPWSD02	GPWSD02LV-112906	TISSUE
BAF =	95.454545					
Thallium	0.1	J	mg/kg	GPWSD03	GPWSD03-BERA-SD07	Sediment
Thallium	0.079	U	mg/kg	GPWSD03	GPWSD03LV-112906	TISSUE
BAF =	115					
Thallium	0.15		mg/kg	IWSD06	IWSD06-BERA-SD06	Sediment
Thallium	0.083	U	mg/kg	IWSD06	IWSD06LV-112906	TISSUE
BAF =	76.666667					
Sample Size =	**n = 8**					
BAF Arithmetic Mean =	**67.632265**					
BAF Geometric Mean =	**63.797878**					

NOTE: BAFs for chemicals with tissue non-detects were calculated by using 1/2 the method detection limit (not shown) as a surrogate concentration for the non-detect result.

Appendix N

Bioassay Laboratory Report (Nautilus Environmental, Inc.)



Nautilus Environmental, LLC

Site Investigation Toxicity and Bioaccumulation Evaluations

Longhorn Army Ammunition Plant

Report date: December 18, 2006
Revision 3: January 22, 2007

Submitted to:

Shaw Environmental & Infrastructure, Inc.
2790 Mosside Blvd
Monroeville, PA 15146

Washington Laboratory
5009 Pacific Hwy East
Suite 2
Tacoma, WA 98424

TABLE OF CONTENTS

Page

TABLE OF CONTENTS ii

SIGNATURE PAGE iv

1.0 INTRODUCTION 1

2.0 Methods 1

2.1 Samples 1

2.2 Sediment preparation 3

2.3 *Hyalella azteca* 10-day survival and growth test 3

2.4 *Lumbriculus variegatus* 28-day bioaccumulation exposure to sediments 5

2.5 *Eisenia fetida* 28-day bioaccumulation exposure to soils 9

2.6 Statistical Analyses 11

3.0 Results 12

3.1 *Hyalella azteca* 12

3.2 *Lumbriculus variegatus* 15

3.3 *Eisenia fetida* 16

4.0 QA/QC 16

5.0 References 19

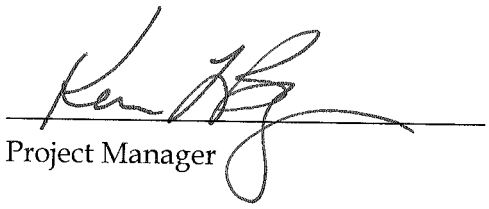
LIST OF TABLES

Table 1. Sample Identification 2
Table 2. Summary of test conditions for the 10-d *Hyalella azteca* test. 5
Table 3. Summary of test conditions for the 28-d bioaccumulation test with *Lumbriculus variegatus*. 8
Table 4. Recommended maximum Lumbriculus loading rates based on sediment total organic carbon content. 8
Table 5. Summary of test conditions for the 28-day bioaccumulation test with *Eisenia fetida*. .10
Table 6. Soil moisture measurements for the *Eisenia fetida* bioaccumulation test. 11
Table 7. Survival data for the *Hyalella azteca* test – Goose Prairie Creek Sediments 13
Table 8. Growth data for the *Hyalella azteca* test – Goose Prairie Creek Sediments 13
Table 9. Survival data for the *Hyalella azteca* test – Caddo Lake Sediments 14
Table 10. Growth data for the *Hyalella azteca* test – Caddo Lake Sediments 14
Table 11. Summary of *Lumbriculus variegatus* 96-hr acute toxicity screen 15
Table 12. Survival data for the *Eisenia fetida* test 16
Table 13. Reference toxicant test results. 18

LIST OF ATTACHMENTS

ATTACHMENT A – Summaries of Results and Statistical Analyses
ATTACHMENT B – Water Quality Measurements
ATTACHMENT C – Reference Toxicant Test Results
ATTACHMENT D – Chain-of-Custody Forms

SIGNATURE PAGE



Project Manager

This report has been prepared based on data and or samples provided by our client and the results of this study are for their sole benefit. Any reliance on the data by a third party is at the sole and exclusive risk of that party.

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1.0 INTRODUCTION

Laboratory toxicity and bioaccumulation testing was conducted on freshwater sediments and soils collected from the Longhorn Army Ammunition Plant. The testing program was part of an environmental investigation being conducted by Shaw Environmental & Infrastructure at the Longhorn Army Ammunition Plant site. Three tests were conducted: a 10-day sediment toxicity test with the amphipod *Hyalella azteca*, a 28-day sediment bioaccumulation test using the oligochaete *Lumbriculus variegatus*, and a 28-day soil bioaccumulation test with the lumbricid earthworm *Eisenia fetida*. The *H. azteca* test evaluated the toxicity of sediments to organism survival and growth. The *L. variegatus* and *E. fetida* tests examined the potential for chemicals in the sediments and soils to bioaccumulate in the test organisms. Testing was conducted between October 13 and November 28, 2006 at the Washington Laboratory of Nautilus Environmental located in Tacoma, Washington. Tissue from *L. variegatus* and *E. fetida* were sent to Severn Trent Laboratories at the end of the testing period for analysis of uptake.

2.0 METHODS

2.1 Samples

Sediment and soil sampling was conducted by Shaw Environmental personnel between October 3 to 6, 2006. A total of fourteen sediments and ten soil samples were collected into 4-liter (L) wide-mouthed plastic jars (sediments) or 8-L plastic buckets (soils). The containers were labeled, packed in ice chests containing cubed ice, and shipped by overnight courier service. Seven sediments were from Caddo Lake and seven from Goose Prairie Creek. One of the sediments from each location was identified as reference sediment.

Upon receipt at the Nautilus laboratory, the coolers were opened and the contents verified against information provided on the chain-of-custody forms (COC). Sample temperatures were measured in the temperature blank included in each ice chest and recorded on the COC. Samples were stored at 4 ±1°C in the dark under nitrogen atmosphere prior to test initiation and then archived.

Sediment and soil samples were identified as listed in Table 1. Based on results of chemical analytical testing, eight of the sediment samples were selected by the Client for toxicity and

00059600

bioaccumulation testing. In addition, per instructions from the Client project manager, the two reference sediments were included in the toxicity test but not in the bioaccumulation test.

Table 1. Sample Identification

Sample ID	Matrix	Test Procedure		
		10-day *Hyalella azteca* survival and growth	28-day *Lumbriculus variegatus* bioaccumulation	28-day *Eisenia fetida* bioaccumulation
CL-GPSN-2-BERA-SD09	Sediment	√	√	
CL-GPSN-3-BERA-SD02	Sediment	√	√	
CL-GPSN-4-BERA-SD01	Sediment	√	√	
CL-GPSS-1-BERA-SD03	Sediment			
CL-GPSS-2-BERA-SD04	Sediment	√	√	
CL-GPSS-3-BERA-SD10	Sediment	√	√	
BKG-CL-SD12-BERA REFSD-02	Sediment	√		
32SD09-BERA-SD05	Sediment			
IWSD06-BERA-SD06	Sediment	√	√	
GPWSD03-BERA-SD07	Sediment	√	√	
50SD05-BERA-SD08	Sediment			
GPWSD02-BERA-SD11	Sediment	√	√	
GPCSD03-BERA-SD12	Sediment			
BKG-SD04-BERA-REFSD-01	Sediment	√		
17SD07-BERA-SS06	Soil			√
17SS22-BERA-SS08	Soil			√
17SB02-BERA-SS09	Soil			√
17SB04-BERA-SS10	Soil			√
N50E25-BERA-SS07	Soil			√
25C56-BERA-SS03	Soil			√
LH-S24-01-BERA-SS01	Soil			√
LH-DL723-01-BERA-SS02	Soil			√
LHSMW02-BERA-SS04	Soil			√
LHSMW50-BERA-SS05	Soil			√

Checks indicate testing conducted with each sample.

Sediment porewater samples were collected by centrifugation of bulk sediment and were analyzed for total ammonia and sulfides. All but one of the sediment samples contained no interstitial water due to an on-going drought at the project site. Dry sediments were mixed with deionized water (DI), 50% by volume, stirred for an hour, and then centrifuged. The resulting water was analyzed for total ammonia and sulfides.

2.2 Sediment preparation

The pH of overlying water for some of the test sediments was below the accepted lower tolerance for *H. azteca* (Snucins 2003; Grapentine 1992). The pH of the sediments was increased prior to initiating tests by renewing overlying water twice daily until the pH was at least 6.0 units. The methods used to increase the pH for the *H. azteca* and *L. variegatus* tests are described below in their respective sections. In the *H. azteca* test (methods described below) the creek and lake sediments were tested separately because the pH of the Goose Prairie Creek sediments reached acceptable levels more quickly.

2.3 *Hyalella azteca* 10-day survival and growth test

H. azteca were exposed to test sediments for 10 days to determine the effects of site sediment on survival and growth. The tests were conducted according to methods presented in USEPA (2000) and ASTM (2000a), and are summarized in Table 2.

H. azteca were obtained from Aquatic BioSystems (Fort Collins, Colorado). The organisms were transported in coolers in 500-milliliter (mL) plastic containers with oxygen-saturated water and fine screens as a substrate. Upon arrival at the laboratory, water quality parameters were measured and observations of animal condition were made. The organisms were acclimated to test conditions with any observation of stress recorded.

Prior to test initiation, the sediments were homogenized and 50 mL was distributed to labeled test chambers and 175-mL laboratory water was added to each container. The hardness of the laboratory water was modified to match historical hardness of the site (47 mg/L for the creek sediments and 31 mg/L for the lake sediments). Control sediment consisted of clean, washed beach sand obtained from Dash Point, Washington mixed with peat (2% by weight). Overlying water was renewed twice daily to increase the pH to a level within the reported tolerance for *H. azteca*, targeting 6.0 units. The creek sediments stabilized within two days and the test was initiated on October 20, 2006. The lake sediments, however, continued to have unacceptable pH levels. The preparation of lake sediments for testing was, therefore, restarted using laboratory water at a hardness of 88 mg/L to provide more buffering. Bulk sediments from the sample containers were distributed to 20-L buckets, mixed with overlying water, and kept at 4 ±1°C in the dark. Renewal of the overlying water was conducted twice daily until the pH in the sediments reached 6.0 units. The lake sediments were then distributed to 300-mL glass beakers using 50 mL of sediments and 175 mL of laboratory water at a hardness of 88 mg/L.

In both sets of tests, the test chambers were randomized and the sediments were left to settle and equilibrate for 24 hours prior to addition of test organisms. Organisms were carefully separated into groups of 10 amphipods in 30 mL cups containing moderately hard synthetic laboratory water (MHSW). The number of organism was then recounted and any animals exhibiting signs of stress were replaced. The organisms were then gently added to the test chambers, two cups for each test chamber for a total of 20 organisms per chamber (100 organisms per sample location).

Each test chamber was provided 1 mL of food every 2 to 3 days. The food consisted of a mixture of 2.0 grams (g) ground Tetramin® flakes mixed with 100 mL of laboratory water. The feeding regime was reduced if the presence of excess food was observed on the sediment surface in several test chambers.

Overlying water was renewed and temperature, dissolved oxygen (DO), pH, and conductivity were monitored daily before and after renewal for each sample location. Aeration in each test chamber was examined daily to ensure proper airflow. Abnormal conditions or unusual animal behavior, if observed, were also noted daily. Subsamples of overlying water were collected for ammonia and sulfide analyses from each water quality replicate at day 0 and 10 of the test. At test termination, the contents of each test chamber were gently mixed to suspend the sediment and poured through a 0.25-millimeter (mm) Nitex screen. The sediment was rinsed through the screen using dilution water. Animals were removed from the screen into a glass dish and number of survivors counted and recorded. Organisms were then transferred to tared weigh pans, dried in an oven for 24 hours at 60°C, and weighed. The number of surviving amphipods and weight per organism was evaluated statistically to determine whether any samples exhibited a significant decrease in survival or growth relative to the control or reference sediment ($p<0.05$). The criterion for acceptable test performance was ≥80% survival of control organisms.

A reference toxicant test using copper chloride ($CuCl_2$) was conducted in conjunction with the tests on the sediments to determine whether the sensitivity of the test organisms was appropriate based on historical data in the laboratory (see Section 4.0).

Table 2. Summary of test conditions for the 10-d *Hyalella azteca* test.

Test start date	Goose Prairie Creek Sediments: 10/20/2006 Caddo Lake Sediments: 10/23/2006
Test end date	Goose Prairie Creek Sediments: 10/30/2006 Caddo Lake Sediments: 11/2/2006
Test organism	*Hyalella azteca*
Test organism source	Aquatic BioSystems, Fort Collins, CO
Organism age at test initiation	10-12 days
Feeding	1 mL of Tetramin mixture every 2 to 3 days; frequency reduced if excess food observed
Test chamber	300-mL glass beaker
Sediment depth	2 centimeters (approximately 50 mL)
Dilution water type	Synthetic water; varying hardnesses
Dilution water volume	175 mL
Overlying water renewal	70% daily
Control sediment	Washed sand mixed with dried peat (2% by weight)
Number of organisms/replicate	20
Number of replicates/sample	5
Test temperature	23 ± 1°C
Illumination	16 hours light followed by 8 hours dark
Aeration	Continuous, fine bubbles using microtubing
Test acceptance criterion	≥80% survival of control organisms
Reference toxicant	Copper chloride

2.4 *Lumbriculus variegatus* 28-day bioaccumulation exposure to sediments

L. variegatus were exposed to test sediments for 28 days to obtain tissue to measure uptake of specific contaminants. The test was conducted according to procedures presented in USEPA (2000) and ASTM (2000b), and are summarized in Table 3.

Test specimens were obtained from Aquatic Foods (Fresno, California) on October 26, 2006. The organisms were transported in a cooler in plastic bags with sufficient water to keep the animals moist. Upon receipt, the worms were placed in 8-L glass aquaria with gently aerating laboratory water and shredded unbleached paper towels. The tanks were held at 23±1°C and culture water was renewed daily. The *L. variegatus* were fed brine frozen brine shrimp during the culture period.

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Due to the low pH, the sediments were prepared for testing by distributing 4 L of bulk sediment to 20-L buckets and adding laboratory water at a hardness of 88 mg/L. The sediments were placed in the cold room (4 ±1°C, in the dark) and the overlying water was renewed twice daily.

A preliminary 96-hour toxicity-screening test was conducted prior to initiating the 28-day bioaccumulation test and used to determine acute survival of *L. variegatus* in the sample sediments. The screen was conducted with two replicates of each site and the control sediment. Each test chamber consisted of a 300-mL glass beaker containing 100 mL of control or test sediment and 175 mL of overlying laboratory water. The creek sediments were tested with overlying water at a hardness of 47 mg/L and the lake sediments at a hardness of 31 mg/L. Ten individuals were placed in each test chamber. Organisms added to the test chambers were observed to ensure that they were able to burrow into the sediment.

During the 96-hour testing period, chambers were renewed twice daily with laboratory water. Overlying water removed from chambers was analyzed for standard water quality parameters consisting of pH, DO, conductivity, and temperature. In addition, ammonia, alkalinity, and hardness were analyzed on days 0 and 3. The worms were isolated from the sediments at the end of the 96-hour period and counted to determine if numbers of *L. variegatus* were significantly reduced in the test sediment relative to the control sediment.

In the 28-day bioaccumulation test, the organisms were exposed to test sediments to assess the potential for chemicals in the sediments to bioaccumulate in tissue. Test chambers consisted of 8-L glass aquaria placed in an environmental chamber maintained at 23±1°C and set for a photoperiod of 16 hours light and 8 hours dark.

The USEPA protocol recommends a maximum worm tissue-loading rate of 1 g worm tissue per 50 g total organic carbon (TOC) measured on a dry weight basis. A summary of TOC values and maximum recommended worm tissue per replicate test chamber is provided in Table 4. Based on available sediment volume, final tissue requirements and low TOC in some of the sediments, the USEPA-recommended loading capacity rate was exceeded by more than 10 percent for the Goose Prairie Creek sites. The deviation, however, did not appear to negatively impact the performance of the test organisms based on comparable recovery and visual appearance of the condition of the worms.

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The samples were thoroughly homogenized prior to distribution to each of three replicate chambers. Each replicate received one and a half liter of control or sample sediment with laboratory water matching hardness of the site overlying water (47 for creek sediments and 31 for lake sediments). Sediment and overlying water were allowed to settle and equilibrate for 24 hours prior to the addition of test organisms. A subset (15 g) of worms from the test population were collected and frozen in a plastic bag to provide information on background tissue chemistry. Target stocking weight of *L. variegatus* in each chamber was 10 grams. The animals were not fed during the test period.

Renewal of overlying water was conducted twice daily during the test period. Conductivity, pH, DO, and temperature were recorded daily. In addition, ammonia, alkalinity and hardness were checked and recorded on days 0, 7, 14, 21, and 28.

At test termination, animals were isolated by sorting through the sediment in each replicate. As animals were isolated, they were placed in a one-liter jar with laboratory water at the correct hardness and left to complete purging of the gut for at least six hours. Animals from all replicates for each site were pooled during the gut purging time period. After purging, the worms were blotted dry, weighed and placed in a plastic bag for freezing at –20 °C. The next day the frozen worms were packed in a cooler containing dry ice and shipped to the analytical laboratory for tissue analysis. A separate 15 g unexposed tissue sample was sent to the analytical laboratory for % moisture determination, so that chemical results could be reported on a wet weight basis. Bioaccumulation chemical analyses, the primary endpoint of this assay, were provided directly to the client by the analytical laboratory and are not included in this report.

A sediment control (negative control) and a reference toxicant test using copper chloride ($CuCl_2$) (positive control) was conducted in conjunction with the test to ensure that organisms were not impacted by stresses other than contamination in the test material.

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Table 3. Summary of test conditions for the 28-d bioaccumulation test with *Lumbriculus variegatus*.

Test start date	10/31/2006
Test end date	11/28/2006
Test organism	*Lumbriculus variegatus*
Test organism source	Aquatic Foods, Inc., Fresno, CA
Feeding	None
Test chamber	8-L glass aquaria
Test sediment volume	1.5 L
Dilution water type & volume	4-liter laboratory water at hardness of test site
Overlying water renewal	50% twice daily
Control sediment	Washed sand mixed with peat (8% by weight)
Wet weight of organisms per chamber	~10 g
Number of replicates/sample	3
Test temperature	23 ± 1°C
Illumination	16 hours light followed by 8 hours dark
Aeration	Continuous, approximately 100 bubbles/minute
Reference toxicant	Copper chloride

Table 4. Recommended maximum Lumbriculus loading rates based on sediment total organic carbon content.

Sample ID	Percent TOC (dry weight)	Dry weight TOC per replicate (g)[a]	Max. wet weight of worms (g)[b,c]
IWSD06-BERA-SD06	0.80	16.3	**2.3**
GPWSD03-BERA-SD07	0.83	17.0	**2.4**
GPWSD02-BERA-SD11	3.18	65.1	9.3
CL-GPSN-2-BERA-SD09	6.29	128.8	18.4
CL-GPSN-3-BERA-SD02	4.37	89.5	12.8
CL-GPSN-4-BERA-SD01	5.92	121.2	17.3
CL-GPSS-2-BERA-SD04	4.62	94.6	13.5
CL-GPSS-3-BERA-SD10	5.18	106.1	15.1

[a] Weight TOC is based on a total of 1.5L of sediment per replicate with a mean total dry weight of 2048 g.
[b] Calculated based on the USEPA-recommended tissue loading rate of 1 g tissue per 50 g TOC (dry weight).
[c] Tissue wet weight values were calculated using a dry/wet weight conversion of 14 percent (i.e. worms were approximately 86 percent water).
Bold values indicate sites where final worm additions (10 g wet weight per replicate exceeded the recommended USEPA criteria by a substantial margin (>10%) based on TOC.

00059607

2.5 *Eisenia fetida* 28-day bioaccumulation exposure to soils

E. fetida were exposed to test soils for 28 days to obtain tissue to assess the potential for chemicals in the soils to bioaccumulate in tissue. The test was conducted according to procedures presented in ASTM (1998), and are summarized in Table 5.

Test specimens were obtained from Yelm Earthworm & Castings Farm (Yelm, Washington) on October 12, 2006. The earthworms were transported in a box in mesh bags containing a small amount of moist soil. Upon receipt, the worms were placed in 8-L glass aquaria and kept moist. The tanks were held at 20±1°C and monitored daily.

Test chambers consisted of one-liter glass jars with perforated lids to allow air exchange. The test chambers were placed in an environmental chamber maintained at 20 ±1°C under constant light. Ten replicates were included per site with one additional replicate used for soil quality parameter measurements at points during the test period.

The samples were thoroughly homogenized and sieved through a 6.3 millimeter (mm) stainless steel screen prior to distribution to each replicate chamber. Each test chamber received 200 g dry weight of soil. The percent moisture of each test soil was calculated and used to determine the wet weight of sample to add to provide 200 g dry weight per test chamber. Sufficient volumes of DI water were added to hydrate the soils to an appropriate moisture level. Due to the differences in soil composition (i.e., texture, structure, and organic content), hydrating soils to a standard level can be problematic. One soil may appear very wet and even have standing water on the surface, while another may appear considerably drier after both being hydrated to the recommended hydration level of 35 to 45 percent of its dry weight. To address such differences, an alternative method is to use the artificial control soil hydrated to 45 percent of its dry weight as a standard. All sites were then hydrated to a level approximating the texture and visual appearance of the hydrated artificial soil control. A summary of hydration levels achieved in the test soils is provided in Table 6.

Soils were allowed to settle and the system was left to equilibrate for 24 hours prior to addition of the test organisms. Thirty worms were randomly added to each test chamber after confirmation that the correct number of test organisms was segregated and in healthy condition. The worms were not fed during the test period.

The temperature of the test chambers was monitored daily. Abnormal conditions or unusual animal behavior, if observed, were also noted at this time. Midway through the test, on day 14, a 35g subsample of each soil sample was removed from the surrogate test chambers to check moisture content, pH, and conductivity. Test chambers were kept hydrated with DI water by gently spraying over the surface in each container as needed.

A soil control (negative control) and a 2-chloroacetammide reference toxicant test (positive control) were conducted in conjunction with the test soils to ensure that organisms were not impacted by stresses other than contamination in the test material.

At test termination, each replicate was emptied into a glass dish and gently sorted. Surviving worms were rinsed in DI water and placed in a cup with moist unbleached paper towels to purge. Dead worms were removed and discarded. Surviving worms were purged for 24 hours in a 20 ±1°C environmental chamber with continuous light. After purging, replicates from each site were combined; the worms were then weighed and placed in plastic bags for freezing. Per project specifications, 15g of tissue from each sample location was sent to one analytical laboratory and 5 g of tissue went to another laboratory. The worms were divided before freezing at -20°C. The next day, the frozen earthworms were packed in coolers containing dry ice and shipped to the analytical laboratories by overnight courier service. Bioaccumulation chemical analyses, the primary endpoint of this assay, were provided directly to the client by the analytical laboratory and are not included in this report.

Table 5. Summary of test conditions for the 28-day bioaccumulation test with *Eisenia fetida*.

Test start date	10/13/2006
Test end date	11/10/2006
Test organism	*Eisenia fetida*
Test organism source	Yelm Earthworm & Castings Farm, Yelm, WA
Feeding	None
Test chamber	1-L glass jar
Test soil weight	200 g dry weight
Water source for hydration	Deionized water (DI)
Control soil	70% sand, 20% Kaolin clay, 10% peat, 0.4% $CaCO_3$
Number of organisms per chamber	30
Number of replicates/site	10
Test temperature	20 ± 1°C
Illumination	Continuous
Reference toxicant	2-Chloroacetamide

00059609

Table 6. Soil moisture measurements for the *Eisenia fetida* bioaccumulation test.

Sample ID	% Soil Moisture		
	Day 0	Day 14	Day 28
Laboratory control	45	52	49
175D07-BERA-SS06	25	29	33
17SS22-BERA-SS08	25	35	34
17SB02-BERA-SS09	25	27	27
17SB04-BERA-SS10	20	18	19
N50E25-BERA-SS07	20	25	27
25C56-BERA-SS03	25	25	30
LH-S24-01-BERA-SS01	45	47	52
LH-DL723-01-BERA-SS02	20	18	25
LHSMW02-BERA-SS04	25	25	27
LHSMW50-BERA-SS05	20	17	25

2.6 Statistical Analyses

Statistical analyses were performed for the *H. azteca* tests using Comprehensive Environmental Toxicity Information System Software (CETIS), Version 1.025B. A One-Way Analysis of Variance (ANOVA) using Dunnett's Multiple Comparison Test was performed to determine if significant differences existed among sites for mean survival and growth endpoints. Multiple comparison procedures using t-tests were used to assess differences between individual sites and the control and reference sites. Prior to the analysis, differences in variance were evaluated using Bartlett's Test and evaluation of normal distribution was assessed using Shapiro-Wilk W Test. Survival data, expressed as a percentage, was arcsine square-root transformed prior to analysis to normalize the distribution of the data and satisfy statistical assumptions for analysis. Growth data was not transformed prior to analysis.

Spearman Karber analysis was used to calculate the median lethal concentration (LC_{50}) value and associated confidence intervals fro reference toxicant tests using CETIS or ToxCalc Comprehensive Toxicity Data Analysis and Database Software, Version 5.0.

00059610

3.0 RESULTS

3.1 *Hyalella azteca*

Results of toxicity tests conducted using *H. azteca* are provided in Tables 7 through 10. Results for the Goose Prairie Creek sediments are in Tables 7 and 8 for survival and growth, respectively. Caddo Lake sediments test results are provided in Tables 9 and 10. The tables show mean percent survival, mean growth, as well as results of the statistical analyses comparing response in the sample locations to the control and reference sediments. Detailed results of the sediment toxicity tests, water quality measurements recorded during the tests, and the reference toxicant test results are provided in Attachments A, B and C, respectively. Copies of the chain-of-custody forms are in Attachment D.

Mean survival in the sediment control in both tests exceeded the recommended EPA guidance survival control criterion of 80 percent, with 98 and 95 percent control survival in the creek and lake sediment tests, respectively. Mean survival in the reference sediments was 96 percent for BKG-SD04-BERA-REFSD-01 (Goose Prairie Creek reference sediment) and 87 percent for BKG-CL-SD12-BERA REFSD-02 (Caddo Lake reference sediment).

None of the Goose Prairie Creek sediments exhibited an effect on *H. azteca* survival compared to the control or reference sediment. All three of the creek sediments as well as the reference sediment had reduced growth compared to growth in the control sediment. None of the site sediments, however, showed a statistically significant reduction in growth compared to the creek reference sediment. In fact, growth in the site sediments was greater than that in the creek reference sediment.

One of the Caddo Lake sediments, CL-GPSN-3-BERA-SD02, demonstrated reduced amphipod survival and growth compared to results in both the control and lake reference sediment and also had a relative percent difference (RPD) in response greater than 20 percent. The test sample location, CL-GPSN-2-BERA-SD09, demonstrated a statistically significant difference in growth compared to the control and reference sediment but not in survival. In addition, the RPD was greater than 20 percent for both growth comparisons. Growth in sample location CL-GPSS-3-BERA-SD10 was statistically significantly reduced compared to control results but not to reference sediment results.

Table 7. Survival data for the *Hyalella azteca* test – Goose Prairie Creek Sediments

Sample ID	Percent Survival (Mean ± SD)	Control vs. Sample Locations p-values	Control vs. Sample Locations RPD	BKG-SD04-REFSD vs. Sample Locations p-values	BKG-SD04-REFSD vs. Sample Locations RPD
Control	98.0 ± 2.7	---	---	---	---
BKG-SD04-BERA-REFSD-01	96.0 ± 4.2	0.21	2.0	---	---
IWSD06-BERA-SD06	92.0 ± 8.4	0.09	6.1	0.21	4.2
GPWSD03-BERA-SD07	97.0 ± 4.5	0.36	1.0	NA	NA
GPWSD02-BERA-SD11	83.0 ± 6.7	0.09	5.1	0.24	3.1

Site BKG-SD04-REFSD is the reference sediment for the Goose Prairie Creek sediments.
NA-not applicable. Test results greater than control or reference sediment results.
Statistical analyses conducted using a one-tailed t-test.
RPD-relative percent difference
Shading signifies a statistically significant difference with 95% confidence **and** a relative percent difference greater than 20% (no shading on Table 6, as no statistically significant differences were detected).

Table 8. Growth data for the *Hyalella azteca* test – Goose Prairie Creek Sediments

Sample ID	Mean Growth per Org. (Weight ± SD)	Control vs. Sample Locations p-values	Control vs. Sample Locations RPD	BKG-SD04-REFSD vs. Sample Locations p-values	BKG-SD04-REFSD vs. Sample Locations RPD
Control	0.133 ± 0.015	---	---	---	---
BKG-SD04-BERA-REFSD-01	0.034 ± 0.019	<0.01	76.9	---	---
IWSD06-BERA-SD06	0.060 ± 0.008	<0.01	53.8	NA	NA
GPWSD03-BERA-SD07	0.085 ± 0.018	<0.01	38.5	NA	NA
GPWSD02-BERA-SD11	0.076 ± 0.020	<0.01	38.5	NA	NA

Site BKG-SD04-REFSD is the reference sediment for the Goose Prairie Creek sediments.
NA-not applicable. Test results greater than control or reference sediment results.
Statistical analyses conducted using a one-tailed t-test.
RPD-relative percent difference
Shading signifies a statistically significant difference with 95% confidence **and** a relative percent difference greater than 20%.

00059612

Table 9. Survival data for the *Hyalella azteca* test – Caddo Lake Sediments

Sample ID	Percent Survival (Mean ± SD)	Control vs. Sample Locations		BKG-SD04-REFSD vs. Sample Locations	
		p-values	RPD	p-values	RPD
Control	95.0 ± 5.0	---	---	---	---
BKG-CL-SD12-BERA REFSD-02	87.0 ± 7.6	0.04	8.4	---	---
CL-GPSN-2-BERA-SD09	89.0 ± 9.6	0.14	6.3	NA	NA
CL-GPSN-3-BERA-SD02	52.0 ± 31.1	<0.01	45.3	0.02	40.2
CL-GPSN-4-BERA-SD01	89.0 ± 5.5	0.05	6.3	NA	NA
CL-GPSS-2-BERA-SD04	92.0 ±9.1	0.31	3.2	NA	NA
CL-GPSS-3-BERA-SD10	81.0 ± 6.5	<0.01	14.7	0.10	6.9

Site BKG-SD04-REFSD is the reference sediment for the Goose Prairie Creek sediments.
NA-not applicable. Test results greater than control or reference sediment results.
Statistical analyses conducted using a one-tailed t-test.
RPD-relative percent difference
Shading signifies a statistically significant difference with 95% confidence **and** a relative percent difference greater than 20%.

Table 10. Growth data for the *Hyalella azteca* test – Caddo Lake Sediments

Sample ID	Mean Growth per Org. (Weight ± SD)	Control vs. Sample Locations		BKG-SD04-REFSD vs. Sample Locations	
		p-values	RPD	p-values	RPD
Control	0.089 ± 0.009	---	---	---	---
BKG-CL-SD12-BERA REFSD-02	0.075 ± 0.016	0.07	11.1	---	---
CL-GPSN-2-BERA-SD09	0.055 ± 0.017	<0.01	44.4	0.04	37.5
CL-GPSN-3-BERA-SD02	0.055 ± 0.018	<0.01	44.4	0.05	37.5
CL-GPSN-4-BERA-SD01	0.074 ± 0.016	0.06	22.2	0.45	12.5
CL-GPSS-2-BERA-SD04	0.097 ± 0.014	NA	NA	NA	NA
CL-GPSS-3-BERA-SD10	0.066± 0.013	0.01	22.2	0.16	12.5

Site BKG-SD04-REFSD is the reference sediment for the Goose Prairie Creek sediments.
NA-not applicable. Test results greater than control or reference sediment results.
Statistical analyses conducted using a one-tailed t-test.
RPD-relative percent difference
Shading signifies a statistically significant difference with 95% confidence **and** a relative percent difference greater than 20%.

00059613

3.2 *Lumbriculus variegatus*

No toxicity was observed to *L. variegatus* by any of the test sediments during the short-term screen. Results are shown in Table 11 and are also provided in Attachment B. The 28-day test of bioaccumulation, therefore, proceeded with all eight test sample locations. Sufficient tissue was obtained from all sample locations at the end of the 28-day exposure. Water quality parameters measured during the exposure period and reference toxicant test data are provided in Attachments B and C.

L. variegatus appeared healthy at the end of the 28-day exposure in all samples tested based on visual color and activity. Burrowing, with the anterior portion buried and the posterior portion undulating in overlying water for respiratory exchange, was observed in all samples throughout the duration of the test.

Table 11. Summary of *Lumbriculus variegatus* 96-hr acute toxicity screen

Sample ID	Mean Percent Survival
Control	95.0
IWSD06-BERA-SD06	100
GPWSD03-BERA-SD07	100
GPWSD02-BERA-SD11	95.0
CL-GPSN-2-BERA-SD09	100
CL-GPSN-3-BERA-SD02	95.0
CL-GPSN-4-BERA-SD01	100
CL-GPSS-2-BERA-SD04	95.0
CL-GPSS-3-BERA-SD10	95.0

00059614

3.3 *Eisenia fetida*

In addition to the collection of tissue for measuring bioaccumulation of chemicals in *Eisenia fetida* exposed to test soils, survival was evaluated at the end of the 28-day exposure. Table 12 shows survival after 28 days of exposure. Mean survival in all sample locations was greater than the control, which had 94 percent survival. A summary of survival and soil quality parameters measured during the 28-day test period are provided in Attachment B.

Table 12. Survival data for the *Eisenia fetida* test

Sample ID	Percent Survival (Mean ± SD)
Control	94.3 ± 8.0
LH-S24-01-BERA-SS01	96.0± 4.1
LH-DL723-01-BERA-SS02	98.3 ± 3.2
25C56-BERA-SS03	98.0 ± 3.6
LHSMW02-BERA-SS04	99.3 ± 2.1
LHSMW50-BERA-SS05	100 ± 0.0
17SD07-BERA-SS06	97.7 ± 3.5
N50E25-BERA-SS07	95.3 ± 4.2
17SS22-BERA-SS08	99.7 ± 11
17SB02-BERA-SS09	100 ±0.0
17SB04-BERA-SS10	97.3 ± 6.4

4.0 QA/QC

The *Hyalella azteca* tests met acceptability criteria for control performance with greater than 80 percent mean control survival and the *Lumbriculus variegatus* and *Eisenia fetida* tests provided sufficient tissue for the analyses required by the project.

As discussed previously, the pH for some of the sediments when initially prepared for testing were below literature values reported as tolerable by *H. azteca*. The pH of the sediments was increased by conducting twice-daily renewal of overlying water until the pH in the sediments was above 6.0 units. This required numerous water changes for some of the sediments resulting in loss of fine grain particles during the process. It should be noted, however, that water change are allowed by the test method. Once the pH was increased to values acceptable for testing, water quality parameters in overlying water remained at acceptable levels throughout the 10-day *H. azteca* tests.

00059615

A few of the sediments continued to have low pH values (i.e., <6.0 units) during the 28-day test of bioaccumulation using *L. variegatus*. This may have been due to use of site-specific hardness in the overlying water providing less buffering capacity in the test chambers. The *L. variegatus* appeared healthy throughout the test period and no obvious mortality (e.g., discolored organisms lying on the sediment surface) was observed during the test period. The soil quality parameters measured during the 28-day exposure in the *E. fetida* test were within ranges defined as acceptable by the protocol.

The recommended organism-loading rate was exceeded for *L. variegatus* based on TOC in two of the sediment samples by more than 10 percent. The USEPA test protocol specifies a recommended maximum loading rate of approximately 1 g dry weight worm tissue to 50 g sediment TOC. The TOC requirement is intended to minimize potential depletion of sediment contaminants and ensure that enough food is available for the test organisms over the duration of the 28-day exposure. The worm/TOC loading rate for IWSDO6-BERA-SD06 and GPWSD03-BERA-SD07 was exceeded by more than 400 percent in two samples due to a combination of low TOC in those sediments and the volume of sediment available for testing. The sediment volume was lower than expected due to the procedures used to increase the pH of the sediments. To ensure that sufficient tissue would be recovered from all sites for chemical analysis, and for consistency, an equal wet weight of worms (10 g) was added to all replicates knowing that the target maximum worm tissue/TOC ratio specified by USEPA was not achieved in two of the samples. Despite exceeding the recommended loading rate, *L. variegatus* in both sample locations with low TOC appeared healthy at the end of the exposure based on their bright color, activity, and abundance. The health of the organisms did not appear, therefore, to have been compromised and it is unlikely that potential contaminants associated with TOC would have been depleted, as the worms appeared to have a source of food throughout the exposure.

00059616

Results of reference toxicant tests conducted with the test organisms are provided in Table 13. Two results are recorded for *Hyalella azteca* because separate batches of amphipods were used for the toxicity testing of the Goose Prairie Creek and Caddo Lake sediments and a reference toxicant test was conducted with organisms from each batch. Mean EC50 results for all tests fell within the acceptable range of mean ± two standard deviations for historical data generated by this laboratory. Thus, these data indicate that the test organisms appeared to have been of an appropriate degree of sensitivity.

Table 13. Reference toxicant test results.

Species	Date Initiated	Toxicant	EC50	95% Confidence Interval	Historical range (mean ± 2 SD)
H. azteca 96h survival	10/20/2006	Copper	504 µg/L	435 - 582	100 - 595
	11/2/2006	Copper	576 µg/L	468 – 710	
L. variegatus 96h survival	11/3/2006	Copper	170 µg/L	139 – 209	68.2 – 188
E. fetida 14d survival	10/19/2006	2-chloroacetamide	28.8 mg/kg	25.9 – 31.9	20.8 – 40.0

00059617

5.0 REFERENCES

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ATTACHMENT A – Summaries of Results and Statistical Analyses

Attachment A-1
Summary of 10-day *Hyalella azteca*
Survival and Growth

Attachment Table A-1. ***Hyalella azteca* 10-day Survival and Growth**
Longhorn Army Ammunition Plant - Goose Prairie Creek Sediments
Test Initiation: October 20, 2006

		Survival				Growth							Weight	
Site	Rep	# Alive	% Survival	Meran % Survival	St. Dev.	Tare Weight (mg)	Total Weight (mg)	Total org Weight. (mg)	Weight per Org (mg)	Growth per Org (mg)	Mean Growth per Org (mg)	St. Dev.	Mean Weight per org (mg)	St. Dev.
Control	1	20	100	98.0	2.7	469.17	472.82	3.65	0.182	0.131	0.133	0.015	0.184	0.015
	2	20	100			495.96	499.28	3.32	0.166	0.114				
	3	20	100			509.71	513.50	3.79	0.190	0.138				
	4	19	95			419.62	423.52	3.90	0.205	0.154				
	5	19	95			537.31	540.69	3.38	0.178	0.126				
BKG SD04 (Ref Sed)	1	20	100	96.0	4.2	525.18	527.22	2.04	0.102	0.050	0.034	0.019	0.085	0.019
	2	19	95			491.57	493.03	1.46	0.077	0.025				
	3	20	100			471.86	473.25	1.39	0.069	0.018				
	4	19	95			522.48	523.81	1.33	0.070	0.018				
	5	18	90			509.36	511.32	1.96	0.109	0.057				
IWSD06	1	18	90	92.0	8.4	458.29	460.23	1.94	0.108	0.056	0.060	0.008	0.111	0.008
	2	20	100			431.21	433.42	2.21	0.111	0.059				
	3	16	80			468.98	470.75	1.77	0.111	0.059				
	4	18	90			493.00	495.23	2.23	0.124	0.072				
	5	20	100			553.96	556.04	2.08	0.104	0.052				
GPWSD03	1	20	100	97.0	4.5	481.11	483.78	2.67	0.133	0.082	0.085	0.018	0.136	0.018
	2	18	90			362.70	364.69	1.99	0.111	0.059				
	3	20	100			486.18	489.38	3.20	0.160	0.108				
	4	19	95			511.82	514.52	2.70	0.142	0.091				
	5	20	100			493.03	495.74	2.71	0.136	0.084				
GPWSD02	1	18	90	93.0	6.7	439.13	441.96	2.83	0.157	0.106	0.076	0.020	0.128	0.020
	2	17	85			510.89	512.82	1.93	0.114	0.062				
	3	18	90			465.95	468.44	2.49	0.138	0.087				
	4	20	100			535.87	538.05	2.18	0.109	0.057				
	5	20	100			491.37	493.81	2.44	0.122	0.070				

Initial Weights		Tare Weight	Total Weight	Weight per	Mean Initial
Rep	# org.	(mg)	(mg)	Org (mg)	Weight (mg)
1	10	488.01	488.54	0.053	0.052
2	10	510.44	510.96	0.052	
3	10	468.71	469.28	0.057	
4	10	542.17	542.60	0.043	
5	10	424.08	424.61	0.053	

00059620

Attachment Table A-1 (cont.). *Hyalella azteca* 10-day Survival and Growth
Longhorn Army Ammunition Plant - Caddo Lake Sediments
Test Initiated October 31, 2006

		Survival				Growth							Weight	
Site	Rep	# Alive	% Survival	Mean % Survival	St. Dev.	Tare Weight (mg)	Total Weight (mg)	Total org Weight. (mg)	Weight per Org (mg)	Growth per Org (mg)	Mean Growth per Org (mg)	St. Dev.	Mean Weight per org (mg)	St. Dev.
Control	1	19	95	95.0	5.0	425.22	427.82	2.60	0.137	0.100	0.089	0.009	0.125	0.009
	2	20	100			451.11	453.58	2.47	0.123	0.087				
	3	18	90			412.73	414.98	2.25	0.125	0.088				
	4	18	90			442.01	444.34	2.33	0.129	0.093				
	5	20	100			551.48	553.72	2.24	0.112	0.075				
BKG CL SD12 (Ref Sed)	1	17	85	87.0	7.6	519.63	521.88	2.25	0.132	0.096	0.075	0.016	0.112	0.016
	2	19	95			451.06	453.32	2.26	0.119	0.082				
	3	18	90			436.76	438.80	2.04	0.113	0.077				
	4	15	75			477.57	479.13	1.56	0.104	0.067				
	5	18	90			501.99	503.62	1.63	0.091	0.054				
GPSN2	1	17	85	89.0	9.6	492.28	494.07	1.79	0.105	0.069	0.055	0.017	0.091	0.017
	2	15	75			444.54	445.81	1.27	0.085	0.048				
	3	19	95			458.81	460.88	2.07	0.109	0.072				
	4	20	100			485.78	487.59	1.81	0.091	0.054				
	5	18	90			429.04	430.25	1.21	0.067	0.031				
GPSN3	1	18	90	52.0	31.1	489.24	491.25	2.01	0.112	0.075	0.055	0.018	0.092	0.018
	2	13	65			481.92	483.01	1.09	0.084	0.047				
	3	3	15			378.95	379.25	0.30	0.101	0.064				
	4	5	25			487.53	488.01	0.48	0.096	0.059				
	5	13	65			543.21	544.06	0.85	0.065	0.029				
GPSN4	1	19	95	89.0	5.5	432.30	433.98	1.68	0.088	0.052	0.074	0.016	0.111	0.016
	2	16	80			453.45	455.36	1.91	0.119	0.083				
	3	18	90			518.54	520.86	2.32	0.129	0.092				
	4	18	90			449.37	451.17	1.80	0.100	0.063				
	5	18	90			568.81	570.91	2.10	0.117	0.080				
GPSS2	1	20	100	92.0	9.1	438.79	441.30	2.51	0.126	0.089	0.097	0.014	0.134	0.014
	2	16	80			463.51	465.88	2.37	0.148	0.112				
	3	20	100			447.49	449.85	2.36	0.118	0.081				
	4	17	85			480.87	483.07	2.20	0.129	0.093				
	5	19	95			475.95	478.76	2.81	0.148	0.111				
GPSS3	1	18	90	81.0	6.5	550.63	552.28	1.65	0.092	0.055	0.066	0.013	0.102	0.013
	2	17	85			453.25	455.23	1.98	0.116	0.080				
	3	15	75			444.70	446.43	1.73	0.115	0.079				
	4	15	75			422.91	424.34	1.43	0.095	0.059				
	5	16	80			484.07	485.55	1.48	0.093	0.056				

Initial Weights Rep	# org.	Tare Weight (mg)	Total Weight (mg)	Weight per Org (mg)	Mean Initial Weight (mg)
1	10	448.11	448.48	0.037	0.037
2	10	449.13	449.35	0.022	
3	10	401.44	401.79	0.035	
4	10	494.5	494.98	0.048	
5	10	475.39	475.8	0.041	

00059621

Attachment A-2
Statistical Analysis of *Hyalella azteca* Results
Goose Prairie Creek Sediments

Attachment Table A-2. *Hyalella azteca* 10-day Survival and Growth
Longhorm Army Ammunition Plant - Goose Prairie Creek Sediments
Statistical Analyses

	Survival						Growth					
			Control vs. Sites		BKG SD04 vs. Sites				Control vs. Sites		BKG SD04 vs. Sites	
Site	Mean % Survival	St. Dev.	P-values	RPD	P-values	RPD	Mean Growth per Org (mg)	St. Dev.	P-values	RPD	P-values	RPD
Control	98.0	2.7	---	---	---	---	0.133	0.015	---	---	---	---
BKG SD04	96.0	4.2	0.21	2.0	---	---	0.034	0.019	<0.01	74.4	---	---
IWSD06	92.0	8.4	0.09	6.1	0.21	4.2	0.060	0.008	<0.01	54.9	NA	NA
GPWSD03	97.0	4.5	0.36	1.0	NA	NA	0.085	0.018	<0.01	36.1	NA	NA
GPWSD02	93.0	6.7	0.09	5.1	0.24	3.1	0.076	0.020	<0.01	42.9	NA	NA

Note: Site BKG SD04 is a reference sediment site.
NA-not applicable. Test results greater than control or reference sediment results.
Statistical analyses was an equal variance t-test
Shading signifies a statistically signficant difference with 95% confidence and a relative percent difference greater than 20%.

00059623

CETIS Test Summary

Report Date: 21 Dec-06 11:33 PM
Link: 04-2190-8855/0610-T015

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Test No:	10-3087-6334	**Test Type:**	Survival-Growth	**Duration:**	10d 0h
Start Date:	20 Oct-06 05:00 PM	**Protocol:**	EPA/600/R-99/064 (2000)	**Species:**	Hyalella azteca
Ending Date:	30 Oct-06 05:00 PM	**Dil Water:**	Mod-Hard Synthetic Water	**Source:**	Aquatic Biosystems, CO
Setup Date:	20 Oct-06 05:00 PM	**Brine:**			

Comments: Goose Prairie Creek sediments

Sample No:	09-9196-8793	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	03 Oct-06 12:20 PM	**Code:**	BKGSD04	**Project:**	
Receive Date:	06 Oct-06	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	17d 4h (2.5 °C)	**Station:**	BKGSD04		
Sample No:	16-2850-2239	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	20 Oct-06	**Code:**	Control	**Project:**	
Receive Date:		**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	17h Not applicable	**Station:**	BKGSD04		
Sample No:	10-0646-9660	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	03 Oct-06 11:10 AM	**Code:**	GPWSD02	**Project:**	
Receive Date:	06 Oct-06	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	17d 5h (2.5 °C)	**Station:**	GPWSD02		
Sample No:	10-3761-7171	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	03 Oct-06 10:50 AM	**Code:**	GPWSD03	**Project:**	
Receive Date:	06 Oct-06	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	17d 6h (2.5 °C)	**Station:**	GPWSD03		
Sample No:	13-2822-1720	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	03 Oct-06 09:45 AM	**Code:**	IWSD06	**Project:**	
Receive Date:	06 Oct-06	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	17d 7h (2.5 °C)	**Station:**	IWSD06		

Mean Dry Weight-mg Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
Control	5	0.13270	0.11450	0.15368	0.00649	0.01452	10.94%
BKGSD04	5	0.03388	0.01800	0.05722	0.00833	0.01862	54.95%
IWSD06	5	0.05972	0.05250	0.07222	0.00334	0.00747	12.50%
GPWSD03	5	0.08478	0.05889	0.10850	0.00798	0.01785	21.05%
GPWSD02	5	0.07640	0.05750	0.10556	0.00884	0.01976	25.86%

Proportion Survived Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
Control	5	0.98000	0.95000	1.00000	0.01225	0.02739	2.79%
BKGSD04	5	0.96000	0.90000	1.00000	0.01871	0.04183	4.36%
IWSD06	5	0.92000	0.80000	1.00000	0.03742	0.08367	9.09%
GPWSD03	5	0.97000	0.90000	1.00000	0.02000	0.04472	4.61%
GPWSD02	5	0.93000	0.85000	1.00000	0.03000	0.06708	7.21%

CETIS Test Summary

00059625

Report Date: 21-Dec-06 11:33 PM
Link: 04-2190-8855/0610-T015

Mean Dry Weight-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Control	0.13100	0.11450	0.13800	0.15368	0.12632
BKGSD04	0.05050	0.02526	0.01800	0.01842	0.05722
IWSD06	0.05611	0.05900	0.05875	0.07222	0.05250
GPWSD03	0.08200	0.05889	0.10850	0.09053	0.08400
GPWSD02	0.10556	0.06177	0.08667	0.05750	0.07050

Proportion Survived Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Control	1.00000	1.00000	1.00000	0.95000	0.95000
BKGSD04	1.00000	0.95000	1.00000	0.95000	0.90000
IWSD06	0.90000	1.00000	0.80000	0.90000	1.00000
GPWSD03	1.00000	0.90000	1.00000	0.95000	1.00000
GPWSD02	0.90000	0.85000	0.90000	1.00000	1.00000

CETIS Analysis Detail

00059626

Comparisons:
Report Date: 22 Jan-07 6:58 AM
Analysis: 15-9166-5380/0610-T015

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	14 Nov-06 5:20 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Dunnett's Multiple Comparison	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Bartlett	3.35680	13.27671	0.49998	Equal Variances
Distribution	Shapiro-Wilk W	0.94566	0.88746	0.20995	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0450151	0.0112538	4	0.92	0.47413	Non-Significant Effect
Error	0.2458373	0.0122919	20			
Total	0.29085241	0.0235456	24			

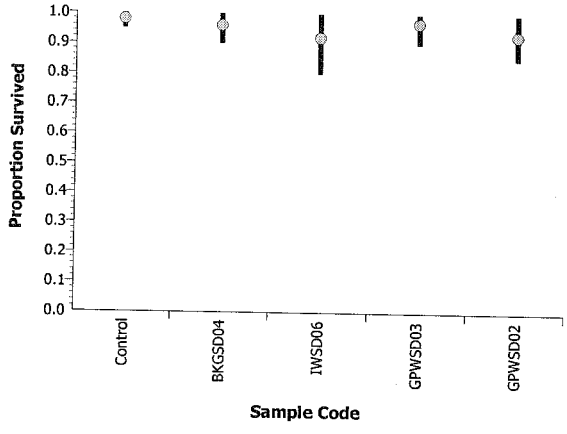
Group Comparisons

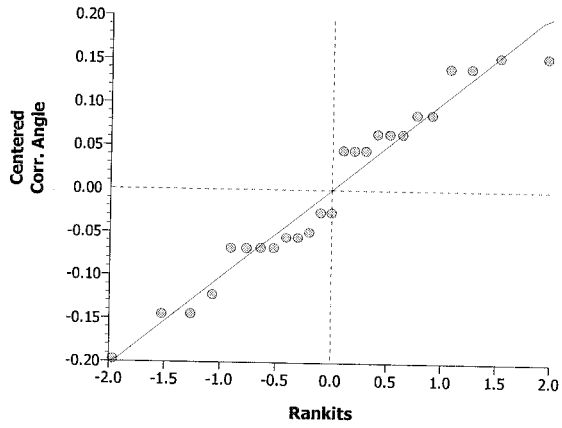
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKGSD04	0.59816	2.3	> 0.0500	0.16127	Non-Significant Effect
Control		IWSD06	1.55188	2.3	> 0.0500	0.16127	Non-Significant Effect
Control		GPWSD03	0.27449	2.3	> 0.0500	0.16127	Non-Significant Effect
Control		GPWSD02	1.36378	2.3	> 0.0500	0.16127	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.98000	0.95000	1.00000	0.02739	1.41337	1.34528	1.45876	0.06215
BKGSD04	5	0.96000	0.90000	1.00000	0.04183	1.37143	1.24905	1.45876	0.08888
IWSD06	5	0.92000	0.80000	1.00000	0.08367	1.30455	1.10715	1.45876	0.15222
GPWSD03	5	0.97000	0.90000	1.00000	0.04472	1.39412	1.24905	1.45876	0.09482
GPWSD02	5	0.93000	0.85000	1.00000	0.06708	1.31774	1.17310	1.45876	0.13241

Graphics





CETIS Analysis Detail

Comparisons: 00059627
Report Date: 22 Jan-07 6:58 AM
Analysis: 11-3751-1297/0610-T015

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:27 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Dunnett's Multiple Comparison	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Bartlett	3.40739	13.27671	0.49210	Equal Variances
Distribution	Shapiro-Wilk W	0.96089	0.88746	0.43985	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0266011	0.0066503	4	25.15	0.00000	Significant Effect
Error	0.0052887	0.0002644	20			
Total	0.03188983	0.0069147	24			

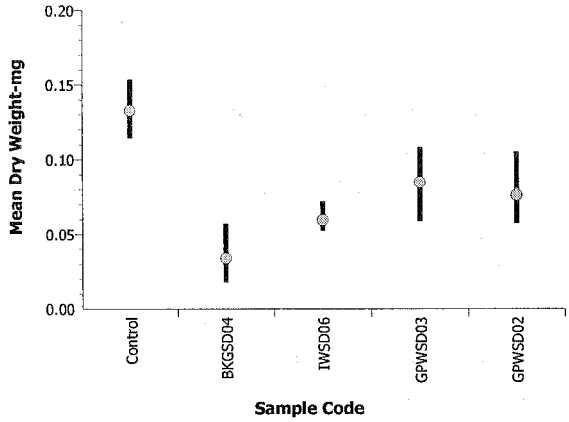
Group Comparisons

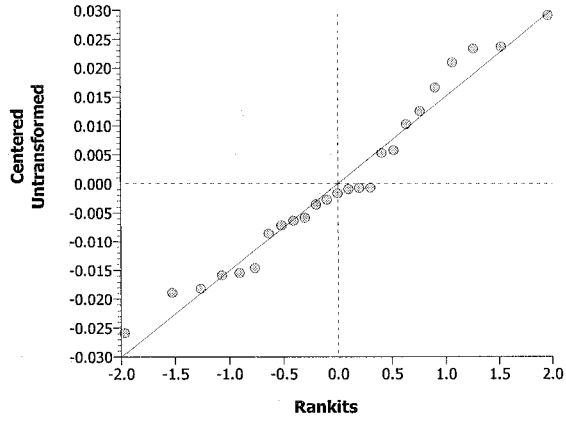
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKGSD04	9.60844	2.3	<= 0.0500	0.02365	Significant Effect
Control		IWSD06	7.09629	2.3	<= 0.0500	0.02365	Significant Effect
Control		GPWSD03	4.65906	2.3	<= 0.0500	0.02365	Significant Effect
Control		GPWSD02	5.47446	2.3	<= 0.0500	0.02365	Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.13270	0.11450	0.15368	0.01452				
BKGSD04	5	0.03388	0.01800	0.05722	0.01862				
IWSD06	5	0.05972	0.05250	0.07222	0.00747				
GPWSD03	5	0.08478	0.05889	0.10850	0.01785				
GPWSD02	5	0.07640	0.05750	0.10556	0.01976				

Graphics





Comparisons:
Report Date: 00059628 14 Nov-06 5:27 PM
Analysis: 19-6980-1378/0610-T015

CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	14 Nov-06 5:25 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.04489	23.15450	0.50546	Equal Variances
Distribution	Shapiro-Wilk W	0.91430	0.78055	0.29742	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.004398	0.004398	1	0.75	0.41235	Non-Significant Effect
Error	0.0470499	0.0058812	8			
Total	0.05144789	0.0102792	9			

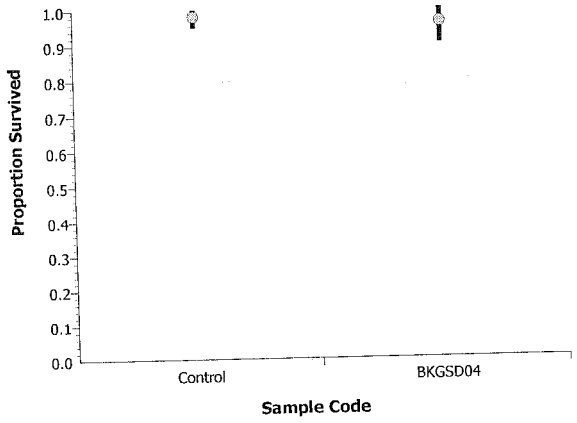
Group Comparisons

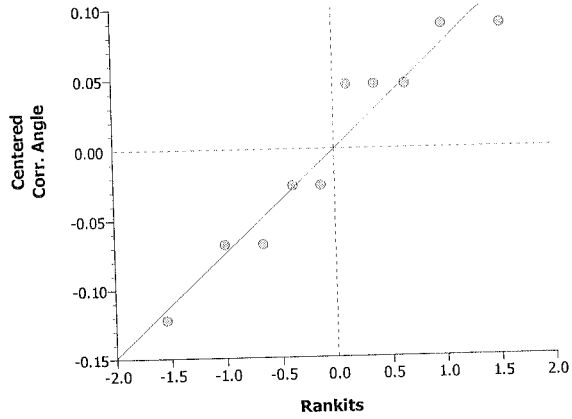
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKGSD04	0.86475	1.85955	0.2062	0.09019	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.98000	0.95000	1.00000	0.02739	1.41337	1.34528	1.45876	0.06215
BKGSD04	5	0.96000	0.90000	1.00000	0.04183	1.37143	1.24905	1.45876	0.08888

Graphics





Comparisons:
Report Date: 00059629 14 Nov-06 5:27 PM
Analysis: 09-8732-7017/0610-T015

CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	14 Nov-06 5:26 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	5.99850	23.15450	0.11083	Equal Variances
Distribution	Shapiro-Wilk W	0.92114	0.78055	0.34780	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0296028	0.0296028	1	2.19	0.17718	Non-Significant Effect
Error	0.1081414	0.0135177	8			
Total	0.13774421	0.0431204	9			

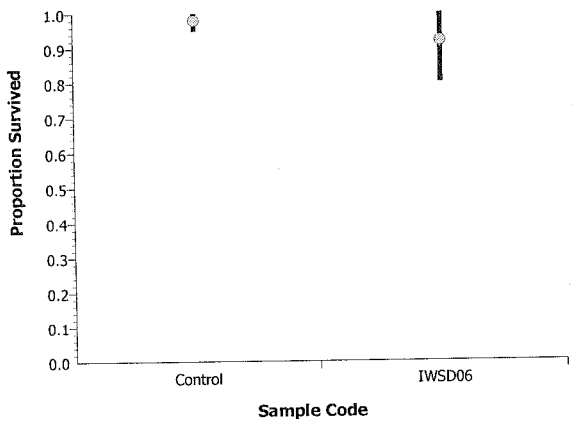
Group Comparisons

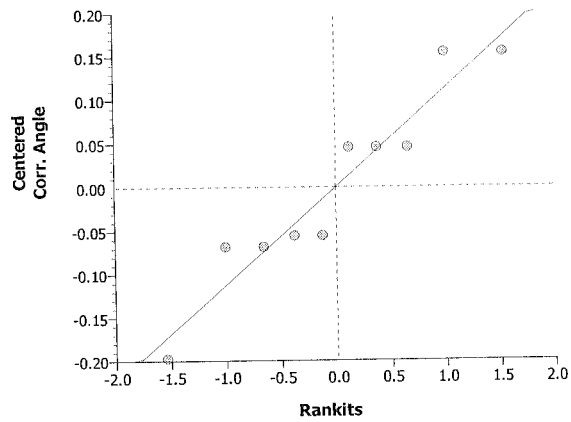
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		IWSD06	1.47984	1.85955	0.0886	0.13674	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.98000	0.95000	1.00000	0.02739	1.41337	1.34528	1.45876	0.06215
IWSD06	5	0.92000	0.80000	1.00000	0.08367	1.30455	1.10715	1.45876	0.15222

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	14 Nov-06 5:26 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.32758	23.15450	0.43331	Equal Variances
Distribution	Shapiro-Wilk W	0.80923	0.78055	0.02159	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0009262	0.0009262	1	0.14	0.71412	Non-Significant Effect
Error	0.0514182	0.0064273	8			
Total	0.05234433	0.0073534	9			

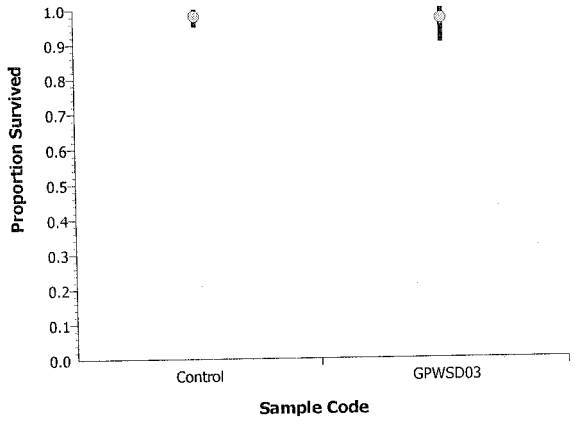
Group Comparisons

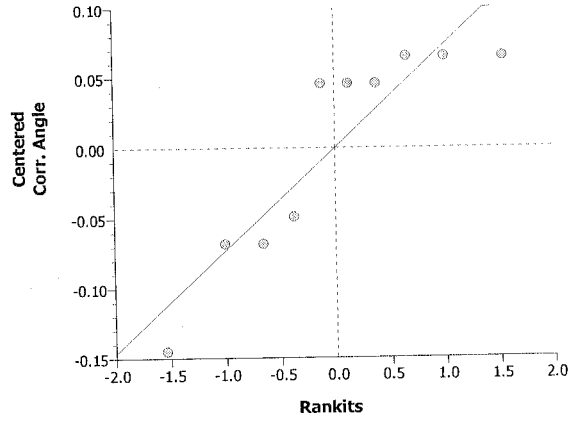
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPWSD03	0.37960	1.85955	0.3571	0.09429	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.98000	0.95000	1.00000	0.02739	1.41337	1.34528	1.45876	0.06215
GPWSD03	5	0.97000	0.90000	1.00000	0.04472	1.39412	1.24905	1.45876	0.09482

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	14 Nov-06 5:26 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	4.53867	23.15450	0.17205	Equal Variances
Distribution	Shapiro-Wilk W	0.88879	0.78055	0.16224	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0228614	0.0228614	1	2.14	0.18192	Non-Significant Effect
Error	0.0855841	0.0106980	8			
Total	0.10844546	0.0335594	9			

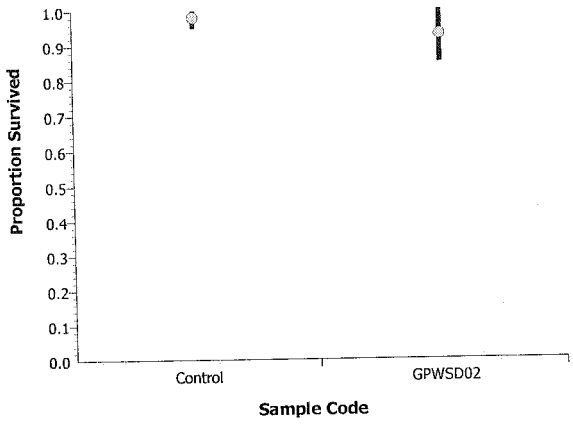
Group Comparisons

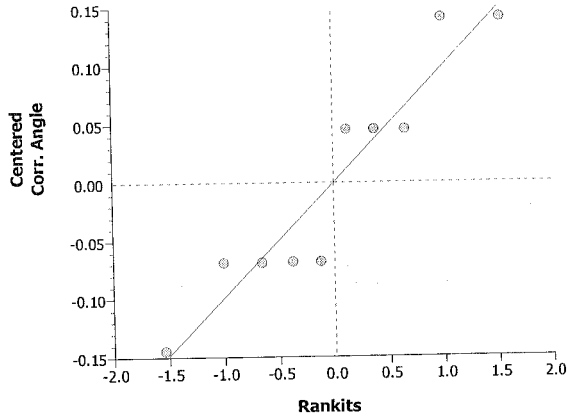
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPWSD02	1.46184	1.85955	0.0910	0.12164	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.98000	0.95000	1.00000	0.02739	1.41337	1.34528	1.45876	0.06215
GPWSD02	5	0.93000	0.85000	1.00000	0.06708	1.31774	1.17310	1.45876	0.13241

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	14 Nov-06 6:38 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.93341	23.15450	0.32208	Equal Variances
Distribution	Shapiro-Wilk W	0.93492	0.78055	0.47102	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0111804	0.0111804	1	0.72	0.42091	Non-Significant Effect
Error	0.1242872	0.0155359	8			
Total	0.13546760	0.0267163	9			

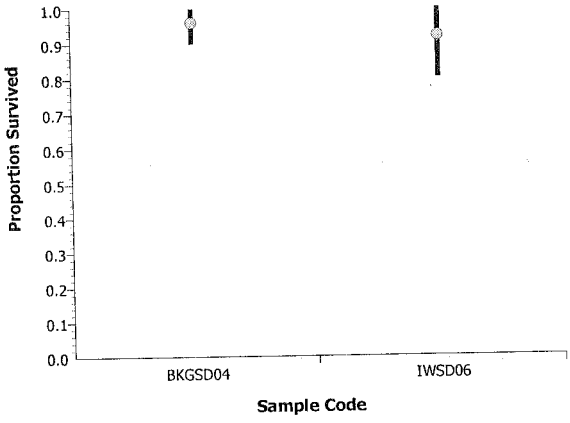
Group Comparisons

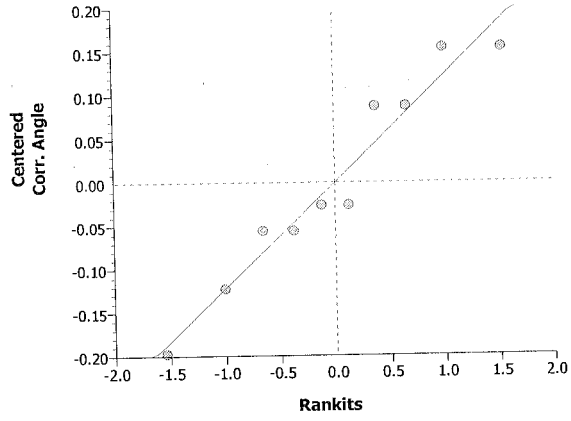
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKGSD04		IWSD06	0.84832	1.85955	0.2105	0.14659	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
BKGSD04	5	0.96000	0.90000	1.00000	0.04183	1.37143	1.24905	1.45876	0.08888
IWSD06	5	0.92000	0.80000	1.00000	0.08367	1.30455	1.10715	1.45876	0.15222

Graphics





CETIS Analysis Detail

Comparisons: 00059633
Report Date: 21 Dec-06 11:42 PM
Analysis: 00-7364-2076/0610-T015

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:42 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.13824	23.15450	0.90316	Equal Variances
Distribution	Shapiro-Wilk W	0.86268	0.78055	0.08520	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0012877	0.0012877	1	0.15	0.70638	Non-Significant Effect
Error	0.0675639	0.0084455	8			
Total	0.06885158	0.0097332	9			

Group Comparisons

Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKGSD04		GPWSD03	-0.3905	1.85955	0.6468	0.10808	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
BKGSD04	5	0.96000	0.90000	1.00000	0.04183	1.37143	1.24905	1.45876	0.08888
GPWSD03	5	0.97000	0.90000	1.00000	0.04472	1.39412	1.24905	1.45876	0.09482

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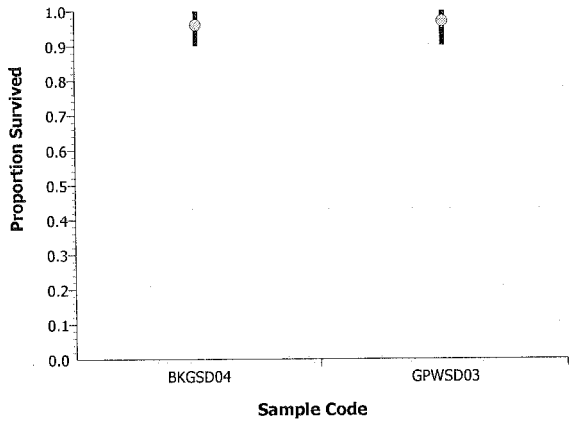
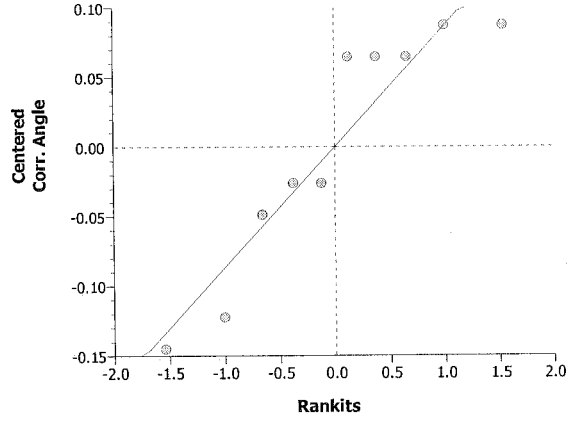




Comparisons:
Report Date: 00059634 14 Nov-06 6:38 PM
Analysis: 13-3443-3565/0610-T015

CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	04-2190-8855	04-2190-8855	14 Nov-06 6:38 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.21952	23.15450	0.45899	Equal Variances
Distribution	Shapiro-Wilk W	0.90325	0.78055	0.22957	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0072051	0.0072051	1	0.57	0.47318	Non-Significant Effect
Error	0.1017298	0.0127162	8			
Total	0.10893489	0.0199213	9			

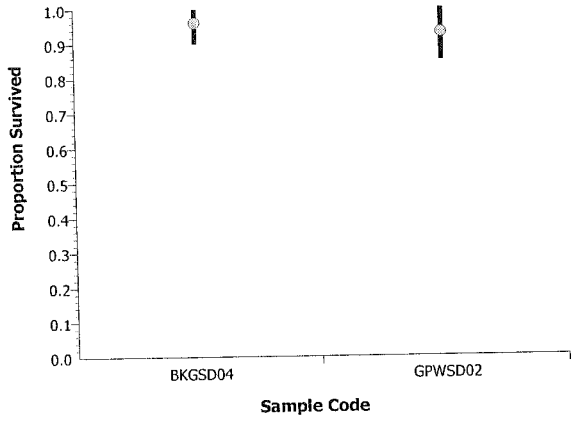
Group Comparisons

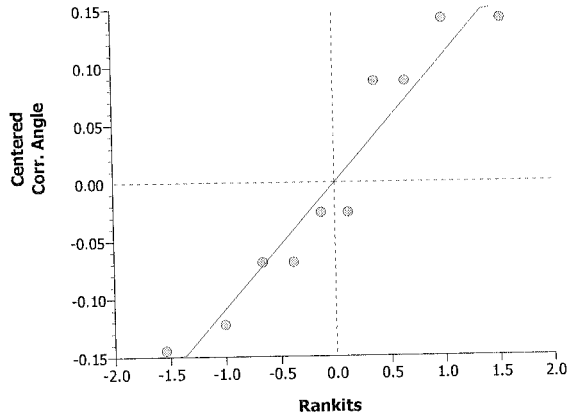
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKGSD04		GPWSD02	0.75273	1.85955	0.2366	0.13262	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
BKGSD04	5	0.96000	0.90000	1.00000	0.04183	1.37143	1.24905	1.45876	0.08888
GPWSD02	5	0.93000	0.85000	1.00000	0.06708	1.31774	1.17310	1.45876	0.13241

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:32 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.64417	23.15450	0.64180	Equal Variances
Distribution	Shapiro-Wilk W	0.89736	0.78055	0.19951	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0244134	0.0244134	1	87.59	0.00001	Significant Effect
Error	0.0022297	0.0002787	8			
Total	0.02664305	0.0246921	9			

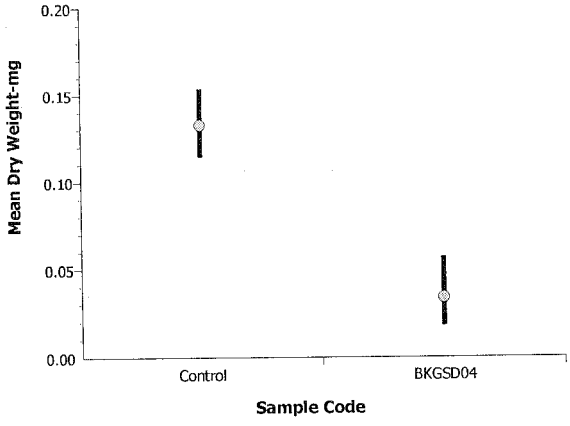
Group Comparisons

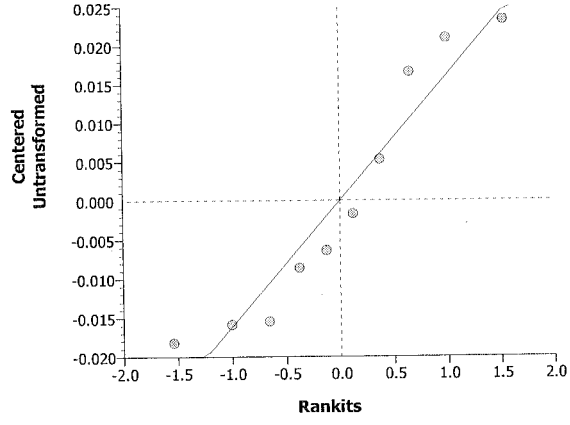
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKGSD04	9.35912	1.85955	0.0000	0.01963	Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.13270	0.11450	0.15368	0.01452				
BKGSD04	5	0.03388	0.01800	0.05722	0.01862				

Graphics





00059636

CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:32 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	3.78232	23.15450	0.22577	Equal Variances
Distribution	Shapiro-Wilk W	0.95219	0.78055	0.66454	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0133163	0.0133163	1	99.92	0.00001	Significant Effect
Error	0.0010662	0.0001333	8			
Total	0.01438253	0.0134496	9			

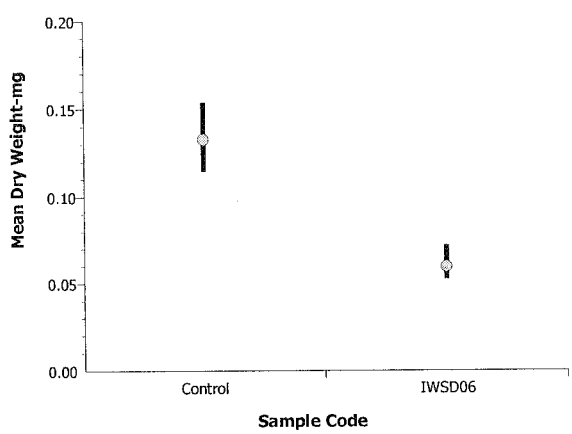
Group Comparisons

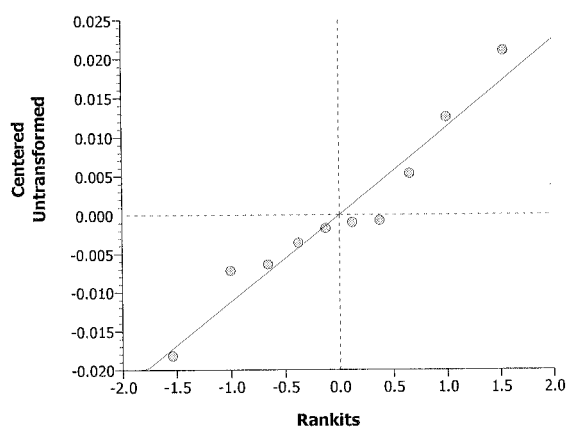
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		IWSD06	9.99582	1.85955	0.0000	0.01358	Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.13270	0.11450	0.15368	0.01452				
IWSD06	5	0.05972	0.05250	0.07222	0.00747				

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:32 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.51130	23.15450	0.69882	Equal Variances
Distribution	Shapiro-Wilk W	0.95582	0.78055	0.70891	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0057401	0.0057401	1	21.68	0.00163	Significant Effect
Error	0.0021177	0.0002647	8			
Total	0.00785775	0.0060048	9			

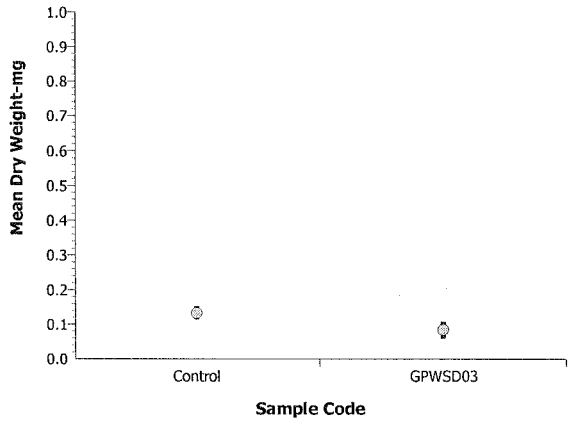
Group Comparisons

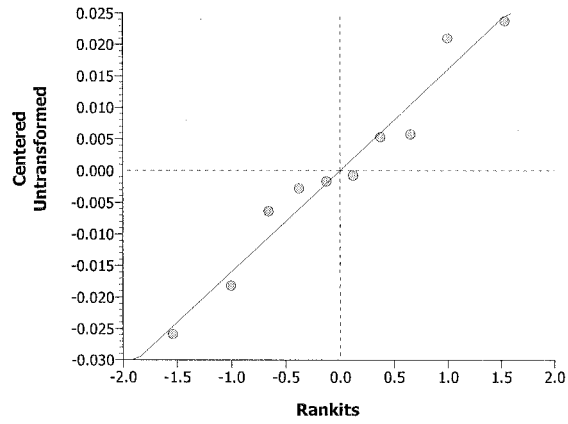
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPWSD03	4.65668	1.85955	0.0008	0.01913	Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.13270	0.11450	0.15368	0.01452				
GPWSD03	5	0.08478	0.05889	0.10850	0.01785				

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:32 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.85197	23.15450	0.56523	Equal Variances
Distribution	Shapiro-Wilk W	0.93438	0.78055	0.46564	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0079251	0.0079251	1	26.36	0.00089	Significant Effect
Error	0.0024049	0.0003006	8			
Total	0.01033001	0.0082257	9			

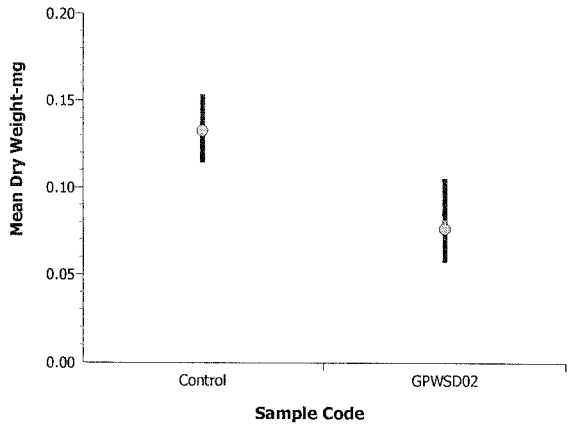
Group Comparisons

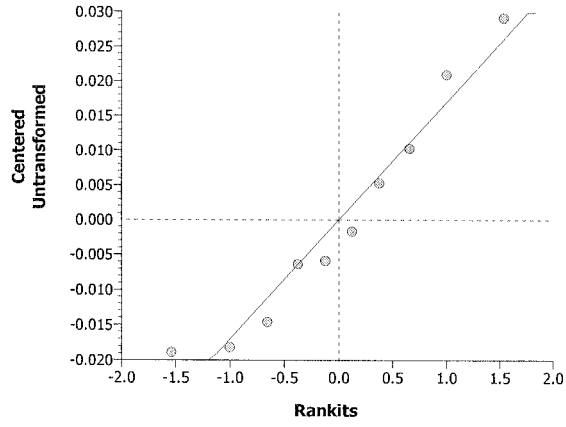
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPWSD02	5.13447	1.85955	0.0004	0.02039	Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.13270	0.11450	0.15368	0.01452				
GPWSD02	5	0.07640	0.05750	0.10556	0.01976				

Graphics





CETIS Analysis Detail

Comparisons: 00059639
Report Date: 21 Dec-06 11:33 PM
Analysis: 02-5483-9965/0610-T015

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:32 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	6.21879	23.15450	0.10451	Equal Variances
Distribution	Shapiro-Wilk W	0.92053	0.78055	0.34303	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0016688	0.0016688	1	8.30	0.02051	Significant Effect
Error	0.0016094	0.0002012	8			
Total	0.00327823	0.0018700	9			

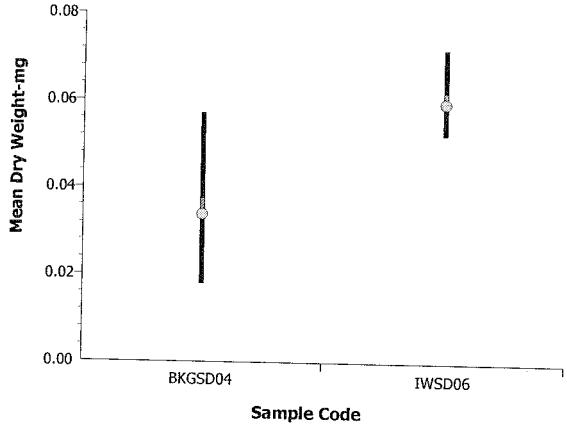
Group Comparisons

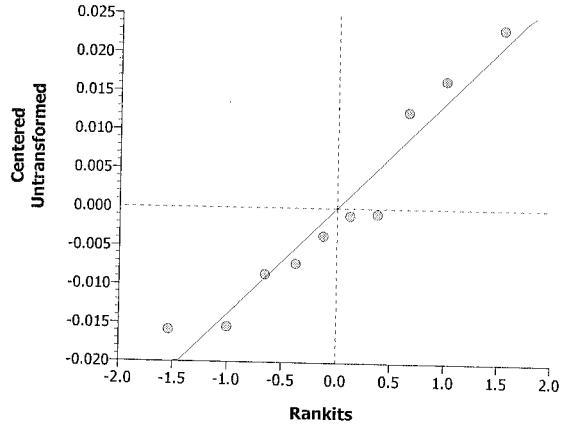
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKGSD04		IWSD06	-2.8802	1.85955	0.9897	0.01668	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKGSD04	5	0.03388	0.01800	0.05722	0.01862				
IWSD06	5	0.05972	0.05250	0.07222	0.00747				

Graphics





CETIS Analysis Detail

Comparisons: 00059640
Report Date: 21 Dec-06 11:33 PM
Analysis: 05-9020-7400/0610-T015

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:32 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.08792	23.15450	0.93688	Equal Variances
Distribution	Shapiro-Wilk W	0.94278	0.78055	0.55444	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0064777	0.0064777	1	19.48	0.00225	Significant Effect
Error	0.0026609	0.0003326	8			
Total	0.00913859	0.0068103	9			

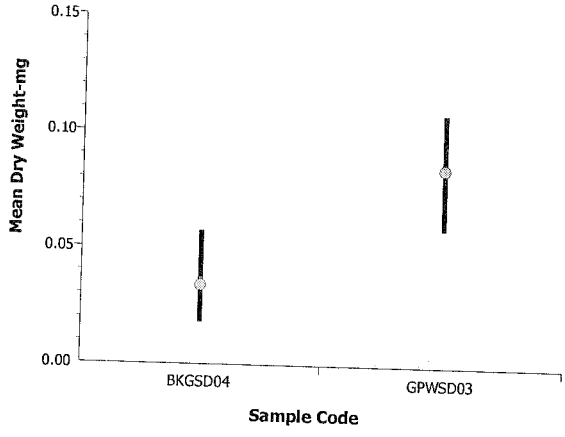
Group Comparisons

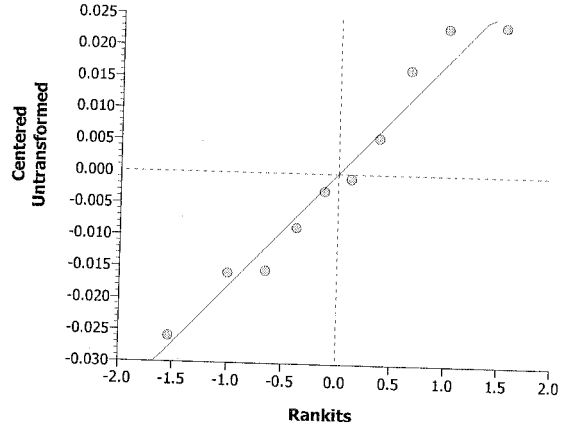
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKGSD04		GPWSD03	-4.4131	1.85955	0.9989	0.02145	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKGSD04	5	0.03388	0.01800	0.05722	0.01862				
GPWSD03	5	0.08478	0.05889	0.10850	0.01785				

Graphics





CETIS Analysis Detail

Comparisons: 00059641
Report Date: 21 Dec-06 11:33 PM
Analysis: 16-5682-8368/0610-T015

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	04-2190-8855	04-2190-8855	21 Dec-06 11:32 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.12638	23.15450	0.91095	Equal Variances
Distribution	Shapiro-Wilk W	0.86547	0.78055	0.09135	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0045192	0.0045192	1	12.26	0.00806	Significant Effect
Error	0.0029481	0.0003685	8			
Total	0.00746730	0.0048877	9			

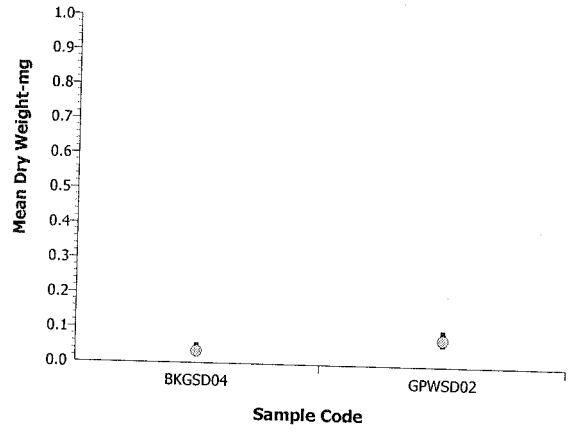
Group Comparisons

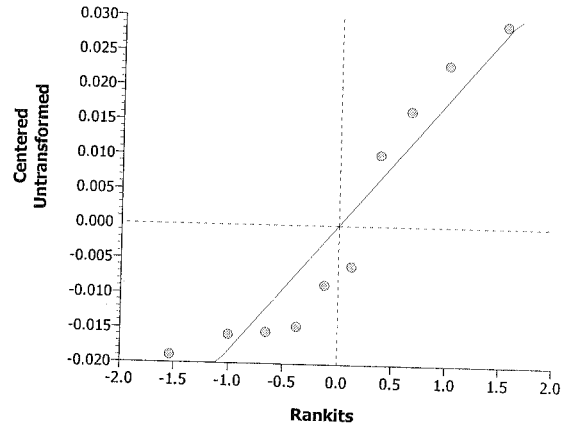
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKGSD04		GPWSD02	-3.5019	1.85955	0.9960	0.02258	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKGSD04	5	0.03388	0.01800	0.05722	0.01862				
GPWSD02	5	0.07640	0.05750	0.10556	0.01976				

Graphics





Attachment A-3
Statistical Analysis of *Hyalella azteca* Results
Caddo Lake Sediments

Attachment Table A-3. *Hyalella azteca* 10-day Survival and Growth
Longhorm Army Ammunition Plant - Caddo Lake Sediments
Statistical Analyses

	Survival						Growth					
			Control vs. Sites		BKG CL SD12 vs. Sites				Control vs. Sites		BKG CL SD12 vs. Sites	
Site	Mean % Survival	St. Dev.	P-values	RPD	P-values	RPD	Mean Growth per Org (mg)	St. Dev.	P-values	RPD	P-values	RPD
Control	95.0	5.0	---	---	---	---	0.089	0.009	---	---	---	---
BKG CL SD12	87.0	7.6	0.04	8.4	---	---	0.075	0.016	0.07	15.7	---	---
GPSN2	89.0	9.6	0.14	6.3	NA	NA	0.055	0.017	<0.01	38.2	0.04	26.7
GPSN3	52.0	31.1	<0.01	45.3	0.02	40.2	0.055	0.018	<0.01	38.2	0.05	26.7
GPSN4	89.0	5.5	0.05	6.3	NA	NA	0.074	0.016	0.06	16.9	0.45	1.3
GPSS2	92.0	9.1	0.31	3.2	NA	NA	0.097	0.014	NA	NA	NA	-29.3
GPSS3	81.0	6.5	<0.01	14.7	0.10	6.9	0.066	0.013	0.01	25.8	0.16	12.0

Note: Site BKG CL SD12 is a reference sediment site.
NA-not applicable. Test results greater than control or reference sediment results.
Statistical analyses was an equal variance t-test
Shading signifies a statistically signficant difference with 95% confidence and a relative percent difference greater than 20%.

00059643

CETIS Test Summary

00059644

Report Date: 17 Nov-06 12:38 PM
Link: 16-0632-3197/0610-T048

Hyalella 10-d Survival and Growth Sediment Test

Nautilus Environmental WA

Test No:	11-6525-8099	**Test Type:**	Survival-Growth	**Duration:**	10d 0h
Start Date:	31 Oct-06 05:00 PM	**Protocol:**	EPA/600/R-99/064 (2000)	**Species:**	Hyalella azteca
Ending Date:	10 Nov-06 05:00 PM	**Dil Water:**	Mod-Hard Synthetic Water	**Source:**	Aquatic Biosystems, CO
Setup Date:	31 Oct-06 05:00 PM	**Brine:**			
Comments:	Caddo Lake Sediments				

Sample No:	18-9190-9615	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	04 Oct-06 08:55 AM	**Code:**	BKG CL SD12	**Project:**	
Receive Date:	06 Oct-06 11:15 AM	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	27d 8h (2.7 °C)	**Station:**	BKG-CL-SD12		
Sample No:	17-0933-9189	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	31 Oct-06	**Code:**	Control	**Project:**	
Receive Date:		**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	17h Not applicable	**Station:**			
Sample No:	06-6377-0035	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	06 Oct-06 09:15 AM	**Code:**	GPSN2	**Project:**	
Receive Date:	07 Oct-06 11:15 AM	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	25d 7h (3.1 °C)	**Station:**	GPSN-2		
Sample No:	10-7721-8320	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	06 Oct-06 09:00 AM	**Code:**	GPSN3	**Project:**	
Receive Date:	07 Oct-06 11:15 AM	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	25d 8h (3.1 °C)	**Station:**	GPSN-3		
Sample No:	01-5711-8448	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	06 Oct-06 08:45 AM	**Code:**	GPSN4	**Project:**	
Receive Date:	07 Oct-06 11:15 AM	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	25d 8h (3.1 °C)	**Station:**	GPSN-4		
Sample No:	06-7671-3899	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	04 Oct-06 12:45 PM	**Code:**	GPSS2	**Project:**	
Receive Date:	06 Oct-06 11:15 AM	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	27d 4h (3.1 °C)	**Station:**	GPSS-2		
Sample No:	13-7188-1921	**Material:**	sediment	**Client:**	Shaw Infrastructure
Sample Date:	04 Oct-06 12:20 PM	**Code:**	GPSS3	**Project:**	
Receive Date:	06 Oct-06 11:15 AM	**Source:**	Longhorn Army Ammunition Plant		
Sample Age:	27d 4h (2.7 °C)	**Station:**	GPSS-3		

CETIS Test Summary

00059645

Report Date: 17 Nov-06 12:38 PM
Link: 16-0632-3197/0610-T048

Mean Dry Weight-mg Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
Control	5	0.08872	0.07550	0.10000	0.00401	0.00897	10.11%
BKG CL SD12	5	0.07518	0.05389	0.09588	0.00705	0.01576	20.97%
GPSN2	5	0.05470	0.03055	0.07211	0.00752	0.01681	30.74%
GPSN3	5	0.05474	0.02846	0.07500	0.00795	0.01777	32.47%
GPSN4	5	0.07393	0.05158	0.09222	0.00727	0.01625	21.99%
GPSS2	5	0.09715	0.08150	0.11125	0.00600	0.01343	13.82%
GPSS3	5	0.06559	0.05500	0.08000	0.00565	0.01263	19.25%

Proportion Survived Summary

Sample Code	Reps	Mean	Minimum	Maximum	SE	SD	CV
Control	5	0.95000	0.90000	1.00000	0.02236	0.05000	5.26%
BKG CL SD12	5	0.87000	0.75000	0.95000	0.03391	0.07583	8.72%
GPSN2	5	0.89000	0.75000	1.00000	0.04301	0.09618	10.81%
GPSN3	5	0.52000	0.15000	0.90000	0.13928	0.31145	59.89%
GPSN4	5	0.89000	0.80000	0.95000	0.02449	0.05477	6.15%
GPSS2	5	0.92000	0.80000	1.00000	0.04062	0.09083	9.87%
GPSS3	5	0.81000	0.75000	0.90000	0.02915	0.06519	8.05%

Mean Dry Weight-mg Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Control	0.10000	0.08700	0.08833	0.09278	0.07550
BKG CL SD12	0.09588	0.08211	0.07667	0.06733	0.05389
GPSN2	0.06882	0.04800	0.07211	0.05400	0.03055
GPSN3	0.07500	0.04692	0.06333	0.06000	0.02846
GPSN4	0.05158	0.08250	0.09222	0.06333	0.08000
GPSS2	0.08900	0.11125	0.08150	0.09294	0.11105
GPSS3	0.05500	0.08000	0.07867	0.05867	0.05562

Proportion Survived Detail

Sample Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Control	0.95000	1.00000	0.90000	0.90000	1.00000
BKG CL SD12	0.85000	0.95000	0.90000	0.75000	0.90000
GPSN2	0.85000	0.75000	0.95000	1.00000	0.90000
GPSN3	0.90000	0.65000	0.15000	0.25000	0.65000
GPSN4	0.95000	0.80000	0.90000	0.90000	0.90000
GPSS2	1.00000	0.80000	1.00000	0.85000	0.95000
GPSS3	0.90000	0.85000	0.75000	0.75000	0.80000

CETIS Analysis Detail

Comparisons: 00059646
Report Date: 17 Nov-06 12:38 PM
Analysis: 03-1411-8745/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:35 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Dunnett's Multiple Comparison	C > T	Untransformed				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Bartlett	2.08504	16.81190	0.91171	Equal Variances
Distribution	Shapiro-Wilk W	0.95071	0.91004	0.15681	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0077947	0.0012991	6	5.94	0.00043	Significant Effect
Error	0.0061256	0.0002188	28			
Total	0.01392022	0.0015179	34			

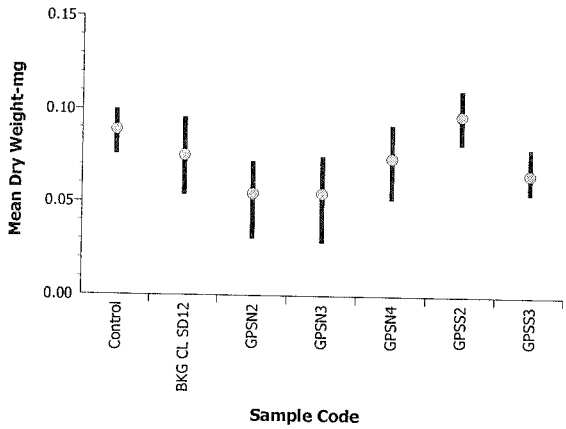
Group Comparisons

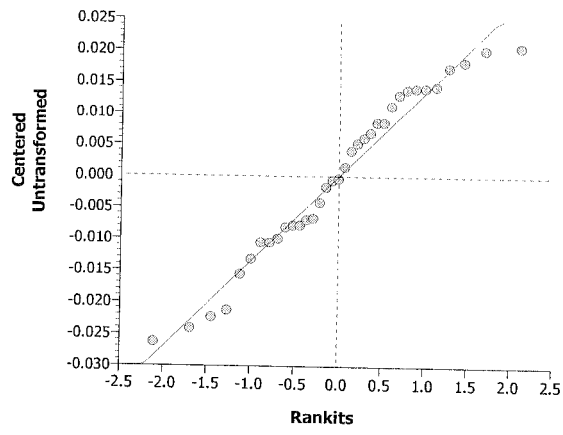
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKG CL SD12	1.44808	2.40857	> 0.0500	0.02253	Non-Significant Effect
Control		GPSN2	3.63722	2.40857	<= 0.0500	0.02253	Significant Effect
Control		GPSN3	3.63208	2.40857	<= 0.0500	0.02253	Significant Effect
Control		GPSN4	1.58155	2.40857	> 0.0500	0.02253	Non-Significant Effect
Control		GPSS2	-0.9009	2.40857	> 0.0500	0.02253	Non-Significant Effect
Control		GPSS3	2.47249	2.40857	<= 0.0500	0.02253	Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.08872	0.07550	0.10000	0.00897				
BKG CL SD12	5	0.07518	0.05389	0.09588	0.01576				
GPSN2	5	0.05470	0.03055	0.07211	0.01681				
GPSN3	5	0.05474	0.02846	0.07500	0.01777				
GPSN4	5	0.07393	0.05158	0.09222	0.01625				
GPSS2	5	0.09715	0.08150	0.11125	0.01343				
GPSS3	5	0.06559	0.05500	0.08000	0.01263				

Graphics





CETIS Analysis Detail

Comparisons: 00059647
Report Date: 17 Nov-06 12:38 PM
Analysis: 04-8832-1287/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:34 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Dunnett's Multiple Comparison	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Bartlett	13.10637	16.81190	0.04138	Equal Variances
Distribution	Shapiro-Wilk W	0.97153	0.91004	0.55944	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.9837132	0.1639522	6	5.50	0.00072	Significant Effect
Error	0.8347141	0.0298112	28			
Total	1.81842721	0.1937634	34			

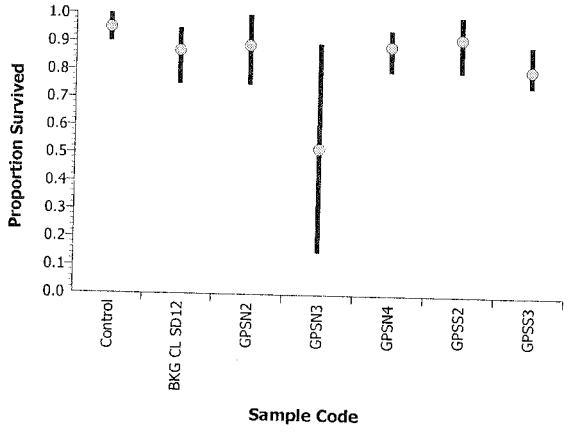
Group Comparisons

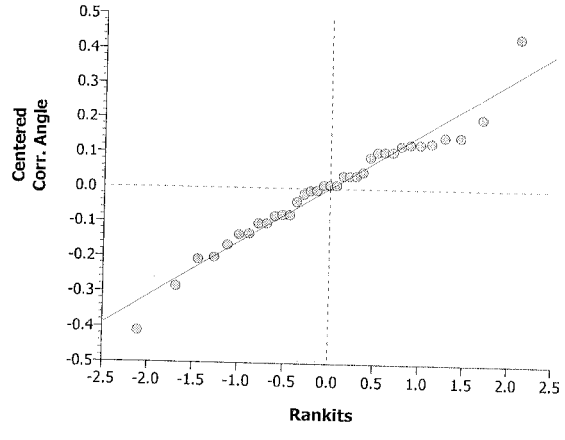
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKG CL SD12	1.27697	2.40857	> 0.0500	0.26301	Non-Significant Effect
Control		GPSN2	0.89288	2.40857	> 0.0500	0.26301	Non-Significant Effect
Control		GPSN3	4.97267	2.40857	<= 0.0500	0.26301	Significant Effect
Control		GPSN4	1.02807	2.40857	> 0.0500	0.26301	Non-Significant Effect
Control		GPSS2	0.39899	2.40857	> 0.0500	0.26301	Non-Significant Effect
Control		GPSS3	2.08281	2.40857	> 0.0500	0.26301	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.95000	0.90000	1.00000	0.05000	1.35218	1.24905	1.45876	0.10493
BKG CL SD12	5	0.87000	0.75000	0.95000	0.07583	1.21273	1.04720	1.34528	0.11088
GPSN2	5	0.89000	0.75000	1.00000	0.09618	1.25468	1.04720	1.45876	0.15779
GPSN3	5	0.52000	0.15000	0.90000	0.31145	0.80917	0.39770	1.24905	0.34548
GPSN4	5	0.89000	0.80000	0.95000	0.05477	1.23991	1.10715	1.34528	0.08512
GPSS2	5	0.92000	0.80000	1.00000	0.09083	1.30861	1.10715	1.45876	0.16231
GPSS3	5	0.81000	0.75000	0.90000	0.06519	1.12474	1.04720	1.24905	0.08678

Graphics





CETIS Analysis Detail

Comparisons: 00059648
Report Date: 17 Nov-06 12:41 PM
Analysis: 02-4413-8560/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.11673	23.15450	0.91736	Equal Variances
Distribution	Shapiro-Wilk W	0.93994	0.78055	0.52330	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.048612	0.048612	1	4.17	0.07538	Non-Significant Effect
Error	0.0932187	0.0116523	8			
Total	0.14183064	0.0602643	9			

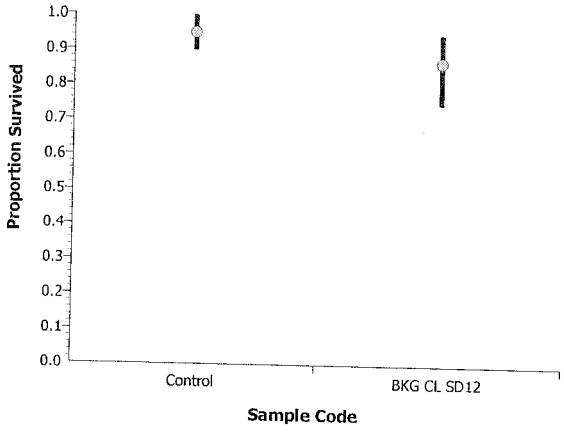
Group Comparisons

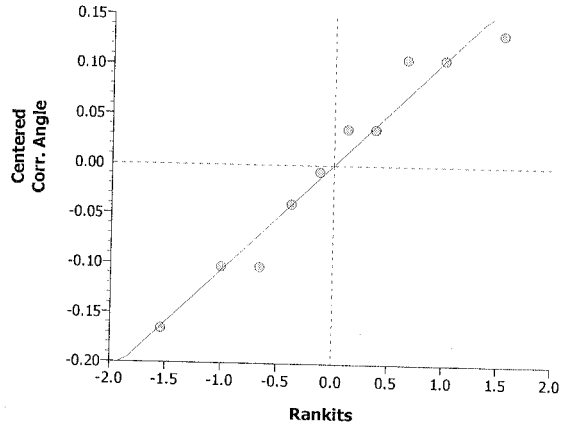
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKG CL SD12	2.04252	1.85955	0.0377	0.12695	Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.95000	0.90000	1.00000	0.05000	1.35218	1.24905	1.45876	0.10493
BKG CL SD12	5	0.87000	0.75000	0.95000	0.07583	1.21273	1.04720	1.34528	0.11088

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.26149	23.15450	0.44876	Equal Variances
Distribution	Shapiro-Wilk W	0.95951	0.78055	0.75417	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0237666	0.0237666	1	1.32	0.28315	Non-Significant Effect
Error	0.1436325	0.0179541	8			
Total	0.16739906	0.0417207	9			

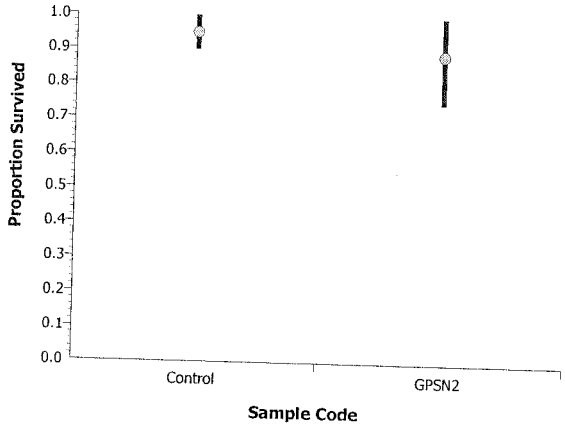
Group Comparisons

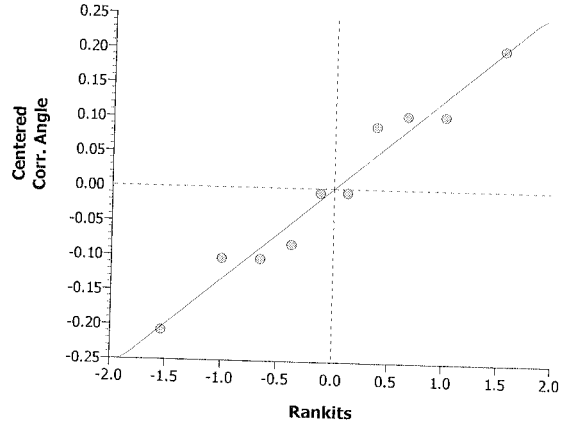
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSN2	1.15054	1.85955	0.1416	0.15759	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.95000	0.90000	1.00000	0.05000	1.35218	1.24905	1.45876	0.10493
GPSN2	5	0.89000	0.75000	1.00000	0.09618	1.25468	1.04720	1.45876	0.15779

Graphics





CETIS Analysis Detail

00059650

Comparisons:
Report Date: 17 Nov-06 12:41 PM
Analysis: 12-5009-6260/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	10.84069	23.15450	0.04039	Equal Variances
Distribution	Shapiro-Wilk W	0.95232	0.78055	0.66608	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.7371545	0.7371545	1	11.31	0.00989	Significant Effect
Error	0.5214514	0.0651814	8			
Total	1.2586059	0.8023359	9			

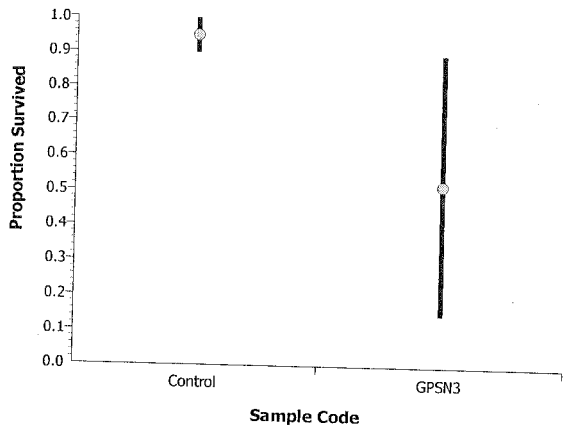
Group Comparisons

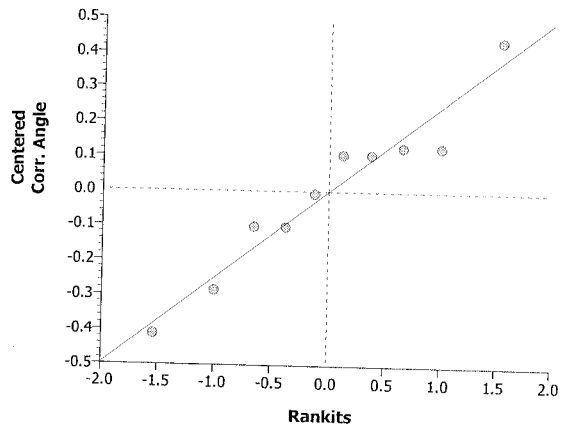
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSN3	3.36293	1.85955	0.0049	0.30026	Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.95000	0.90000	1.00000	0.05000	1.35218	1.24905	1.45876	0.10493
GPSN3	5	0.52000	0.15000	0.90000	0.31145	0.80917	0.39770	1.24905	0.34548

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.51966	23.15450	0.69502	Equal Variances
Distribution	Shapiro-Wilk W	0.87647	0.78055	0.12002	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0315083	0.0315083	1	3.45	0.10024	Non-Significant Effect
Error	0.0730183	0.0091273	8			
Total	0.10452667	0.0406356	9			

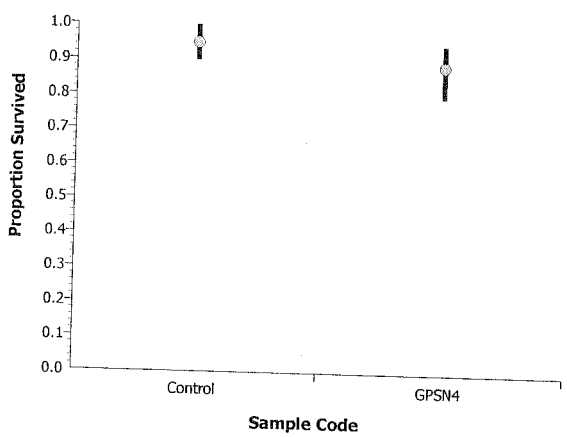
Group Comparisons

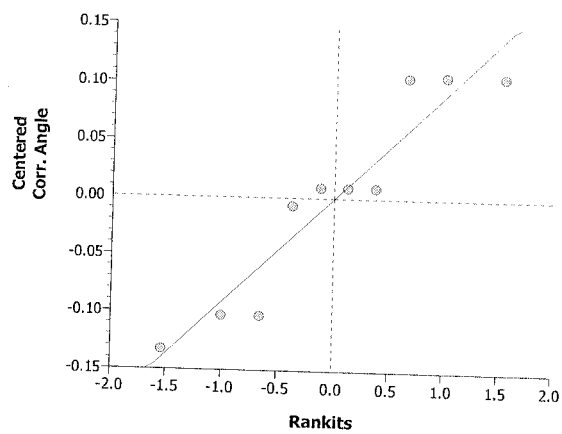
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSN4	1.85798	1.85955	0.0501	0.11236	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.95000	0.90000	1.00000	0.05000	1.35218	1.24905	1.45876	0.10493
GPSN4	5	0.89000	0.80000	0.95000	0.05477	1.23991	1.10715	1.34528	0.08512

Graphics





CETIS Analysis Detail

00059652

Analysis: 11-9831-9227/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.39299	23.15450	0.41878	Equal Variances
Distribution	Shapiro-Wilk W	0.90684	0.78055	0.24988	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0047457	0.0047457	1	0.25	0.62780	Non-Significant Effect
Error	0.1494235	0.0186779	8			
Total	0.15416922	0.0234236	9			

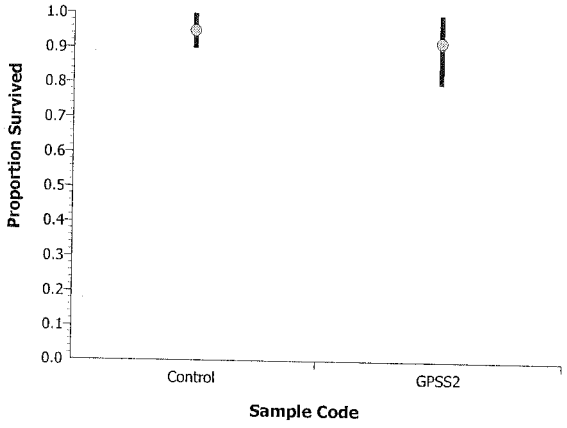
Group Comparisons

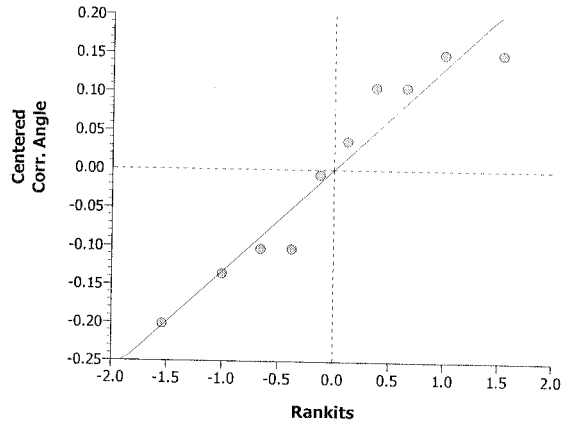
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSS2	0.50406	1.85955	0.3139	0.16073	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.95000	0.90000	1.00000	0.05000	1.35218	1.24905	1.45876	0.10493
GPSS2	5	0.92000	0.80000	1.00000	0.09083	1.30861	1.10715	1.45876	0.16231

Graphics





CETIS Analysis Detail

00059653

Analysis: 17-7500-7863/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.46185	23.15450	0.72190	Equal Variances
Distribution	Shapiro-Wilk W	0.87541	0.78055	0.11691	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.1293236	0.1293236	1	13.95	0.00575	Significant Effect
Error	0.0741644	0.0092705	8			
Total	0.20348797	0.1385941	9			

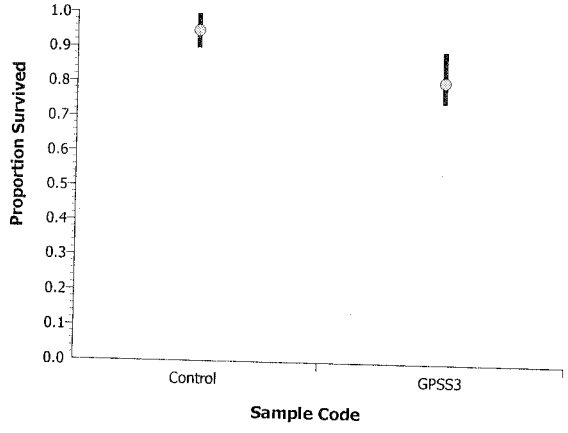
Group Comparisons

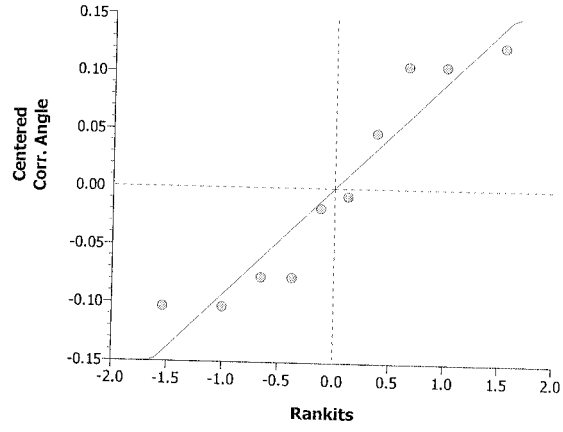
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSS3	3.73496	1.85955	0.0029	0.11324	Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.95000	0.90000	1.00000	0.05000	1.35218	1.24905	1.45876	0.10493
GPSS3	5	0.81000	0.75000	0.90000	0.06519	1.12474	1.04720	1.24905	0.08678

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.02509	23.15450	0.51116	Equal Variances
Distribution	Shapiro-Wilk W	0.98151	0.78055	0.97092	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.004398	0.004398	1	0.24	0.63979	Non-Significant Effect
Error	0.1487732	0.0185967	8			
Total	0.15317119	0.0229946	9			

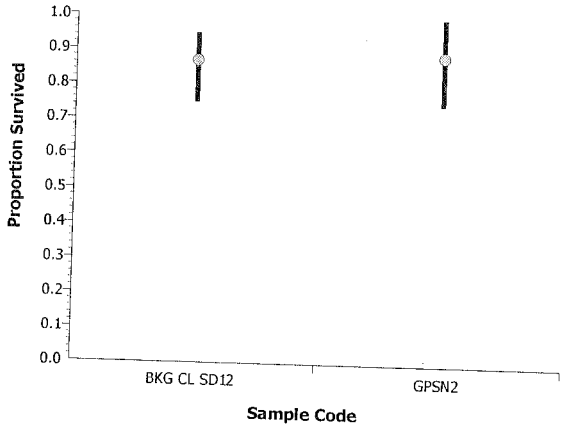
Group Comparisons

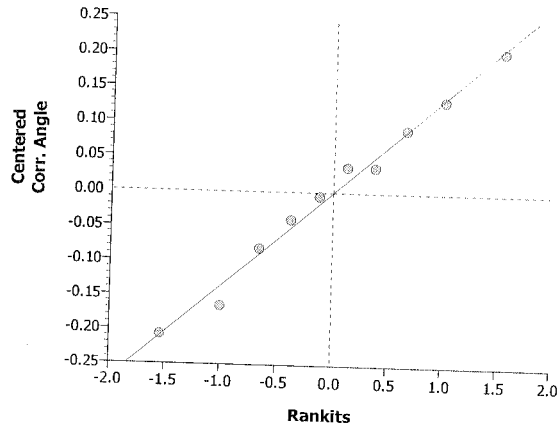
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSN2	-0.4863	1.85955	0.6801	0.16038	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKG CL SD12	5	0.87000	0.75000	0.95000	0.07583	1.21273	1.04720	1.34528	0.11088
GPSN2	5	0.89000	0.75000	1.00000	0.09618	1.25468	1.04720	1.45876	0.15779

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z	NOEL	LOEL	Toxic Units	ChV	MSDp
Equal Variance t	C > T	Angular (Corrected)				N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	9.70751	23.15450	0.04907	Equal Variances
Distribution	Shapiro-Wilk W	0.95661	0.78055	0.71861	Normal Distribution

ANOVA Table

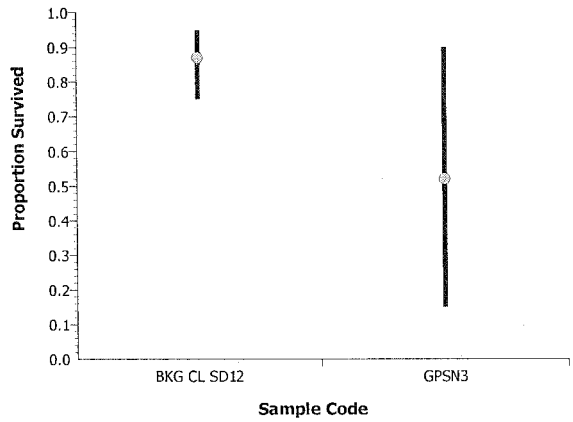
Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.4071662	0.4071662	1	6.19	0.03769	Significant Effect
Error	0.5265922	0.0658240	8			
Total	0.93375841	0.4729902	9			

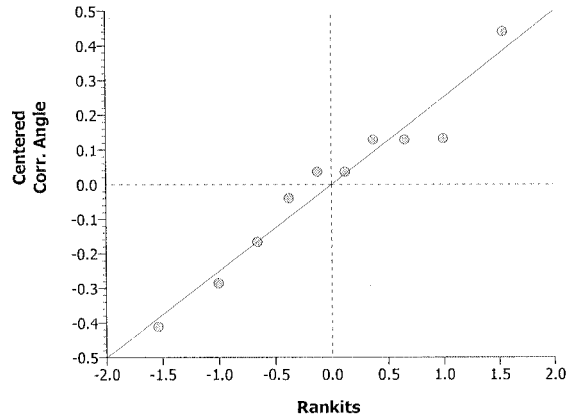
Group Comparisons

Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSN3	2.48710	1.85955	0.0188	0.30174	Significant Effect

Data Summary		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
BKG CL SD12	5	0.87000	0.75000	0.95000	0.07583	1.21273	1.04720	1.34528	0.11088
GPSN3	5	0.52000	0.15000	0.90000	0.31145	0.80917	0.39770	1.24905	0.34548

Graphics





CETIS Analysis Detail

Comparisons: 00059656
Report Date: 17 Nov-06 12:41 PM
Analysis: 15-2319-0069/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.69706	23.15450	0.62095	Equal Variances
Distribution	Shapiro-Wilk W	0.92601	0.78055	0.38798	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0018469	0.0018469	1	0.19	0.67521	Non-Significant Effect
Error	0.0781591	0.0097699	8			
Total	0.080006	0.0116168	9			

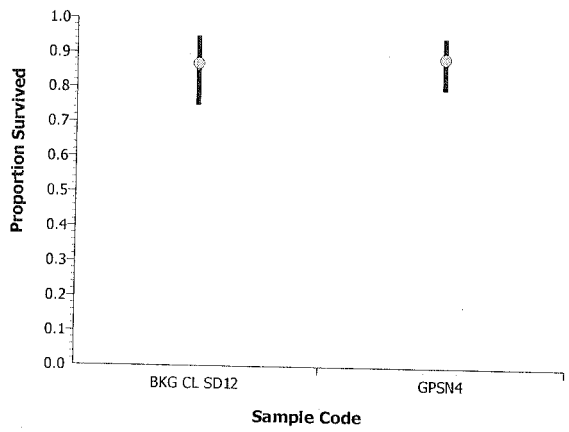
Group Comparisons

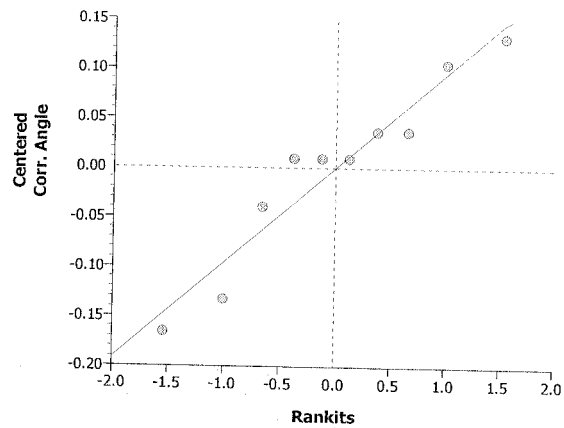
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSN4	-0.4348	1.85955	0.6624	0.11625	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKG CL SD12	5	0.87000	0.75000	0.95000	0.07583	1.21273	1.04720	1.34528	0.11088
GPSN4	5	0.89000	0.80000	0.95000	0.05477	1.23991	1.10715	1.34528	0.08512

Graphics





CETIS Analysis Detail

00059657

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.14285	23.15450	0.47859	Equal Variances
Distribution	Shapiro-Wilk W	0.89731	0.78055	0.19926	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0229802	0.0229802	1	1.19	0.30720	Non-Significant Effect
Error	0.1545643	0.0193205	8			
Total	0.17754455	0.0423008	9			

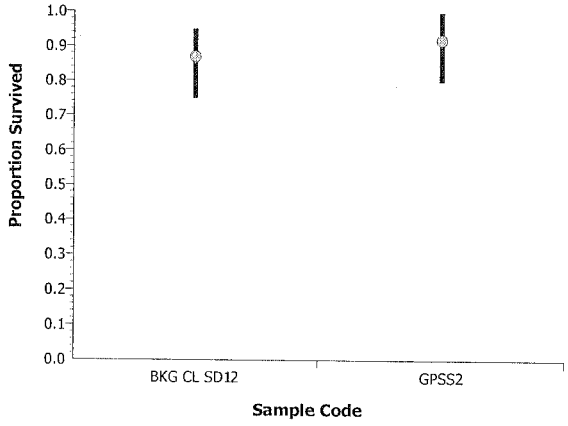
Group Comparisons

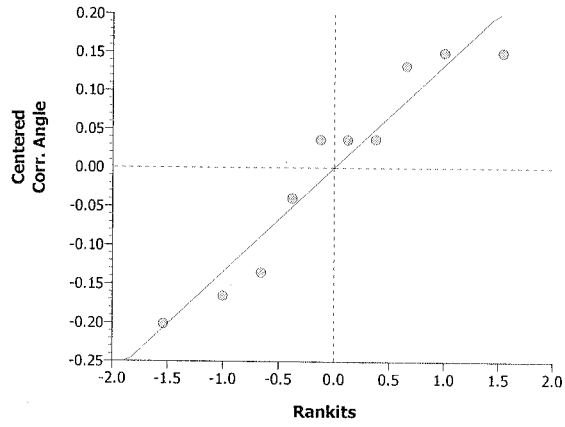
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSS2	-1.0906	1.85955	0.8464	0.16347	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
BKG CL SD12	5	0.87000	0.75000	0.95000	0.07583	1.21273	1.04720	1.34528	0.11088
GPSS2	5	0.92000	0.80000	1.00000	0.09083	1.30861	1.10715	1.45876	0.16231

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:39 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.63250	23.15450	0.64654	Equal Variances
Distribution	Shapiro-Wilk W	0.95986	0.78055	0.75838	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0193585	0.0193585	1	1.95	0.19982	Non-Significant Effect
Error	0.0793052	0.0099131	8			
Total	0.09866360	0.0292716	9			

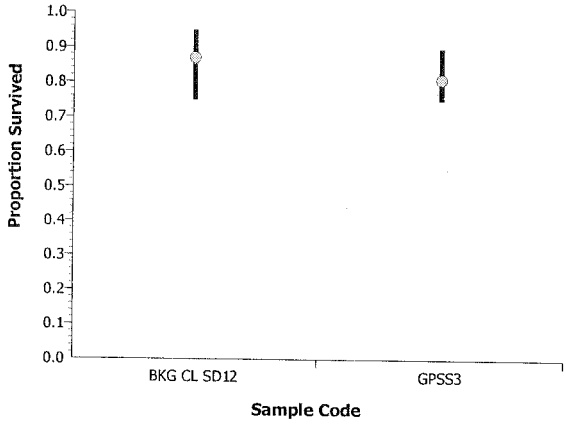
Group Comparisons

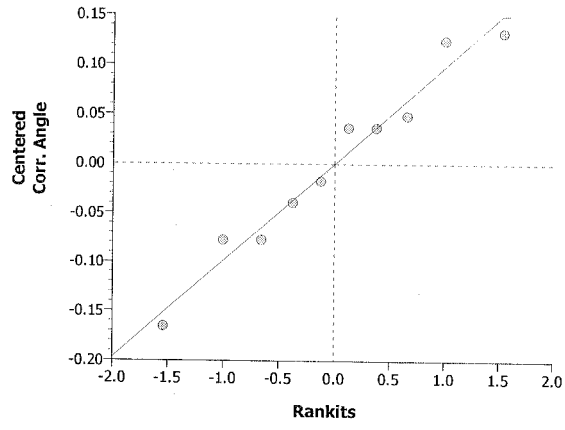
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSS3	1.39743	1.85955	0.0999	0.1171	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
BKG CL SD12	5	0.87000	0.75000	0.95000	0.07583	1.21273	1.04720	1.34528	0.11088
GPSS3	5	0.81000	0.75000	0.90000	0.06519	1.12474	1.04720	1.24905	0.08678

Graphics





CETIS Analysis Detail

00059659

Hyalella 10-d Survival and Growth Sediment Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	3.08931	23.15450	0.30030	Equal Variances
Distribution	Shapiro-Wilk W	0.99130	0.78055	0.99876	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0004587	0.0004587	1	2.79	0.13339	Non-Significant Effect
Error	0.0013153	0.0001644	8			
Total	0.00177401	0.0006232	9			

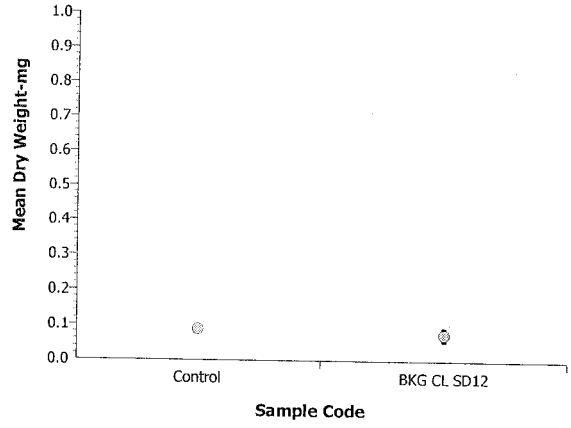
Group Comparisons

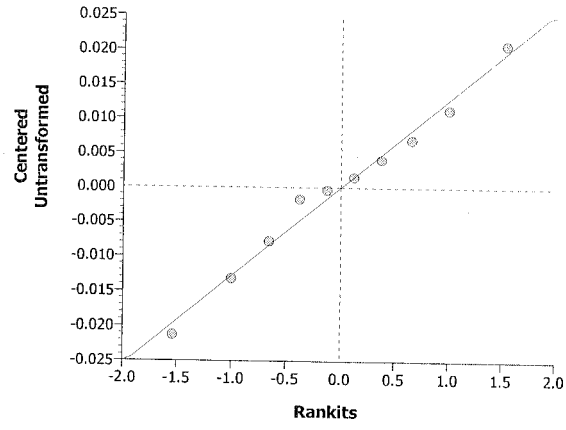
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		BKG CL SD12	1.67041	1.85955	0.0667	0.01508	Non-Significant Effect

Data Summary

		Original Data				Transformed Data			
Sample Code	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
Control	5	0.08872	0.07550	0.10000	0.00897				
BKG CL SD12	5	0.07518	0.05389	0.09588	0.01576				

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	3.51578	23.15450	0.25079	Equal Variances
Distribution	Shapiro-Wilk W	0.96382	0.78055	0.80610	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0028942	0.0028942	1	15.94	0.00399	Significant Effect
Error	0.0014524	0.0001816	8			
Total	0.00434661	0.0030757	9			

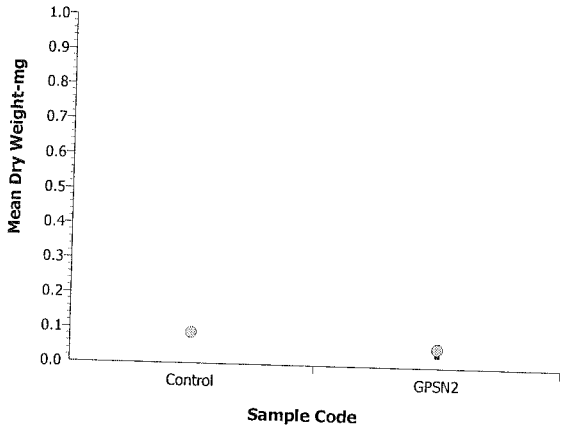
Group Comparisons

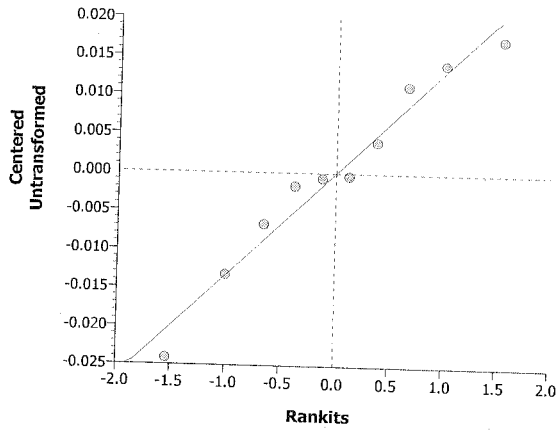
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSN2	3.99264	1.85955	0.0020	0.01585	Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.08872	0.07550	0.10000	0.00897				
GPSN2	5	0.05470	0.03055	0.07211	0.01681				

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	3.92902	23.15450	0.21356	Equal Variances
Distribution	Shapiro-Wilk W	0.97510	0.78055	0.92523	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0028860	0.0028860	1	14.56	0.00512	Significant Effect
Error	0.0015853	0.0001982	8			
Total	0.00447137	0.0030842	9			

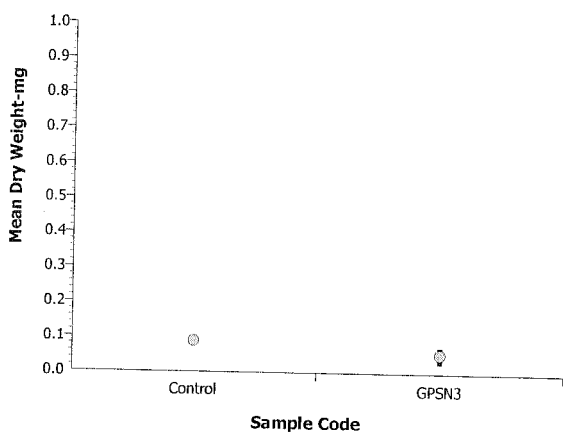
Group Comparisons

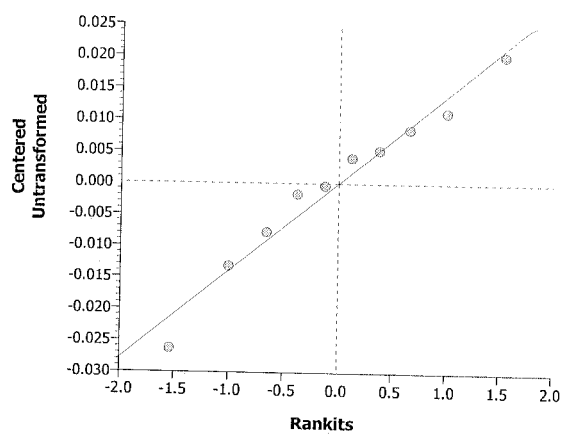
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSN3	3.81622	1.85955	0.0026	0.01656	Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.08872	0.07550	0.10000	0.00897				
GPSN3	5	0.05474	0.02846	0.07500	0.01777				

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	3.28519	23.15450	0.27591	Equal Variances
Distribution	Shapiro-Wilk W	0.97310	0.78055	0.90696	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0005472	0.0005472	1	3.18	0.11257	Non-Significant Effect
Error	0.0013783	0.0001723	8			
Total	0.00192548	0.0007195	9			

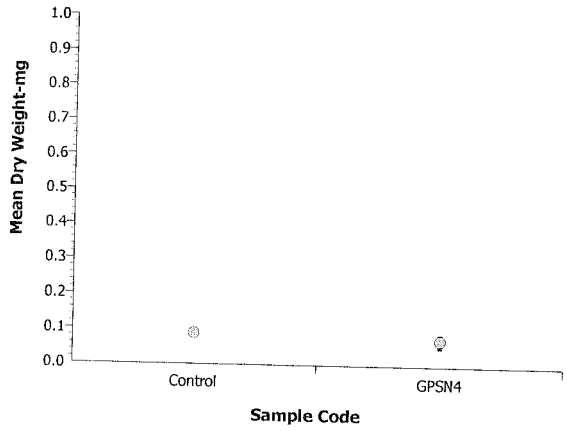
Group Comparisons

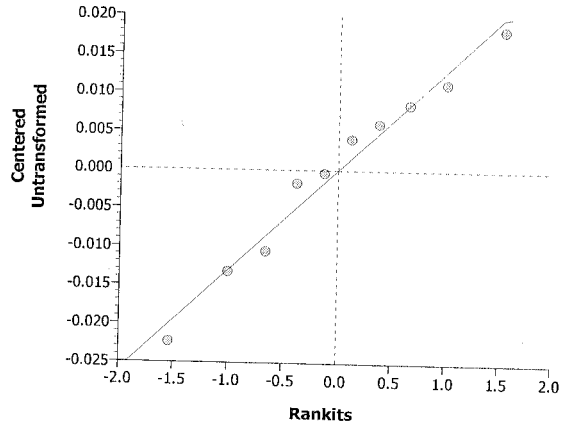
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSN4	1.78219	1.85955	0.0563	0.01544	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.08872	0.07550	0.10000	0.00897				
GPSN4	5	0.07393	0.05158	0.09222	0.01625				

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	2.24216	23.15450	0.45343	Equal Variances
Distribution	Shapiro-Wilk W	0.93500	0.78055	0.47185	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0001776	0.0001776	1	1.36	0.27675	Non-Significant Effect
Error	0.0010428	0.0001303	8			
Total	0.00122036	0.0003079	9			

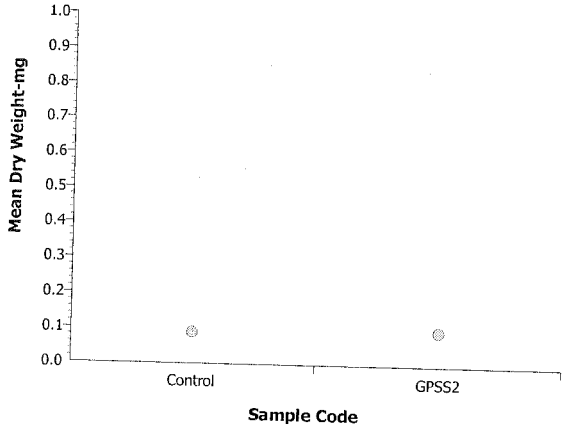
Group Comparisons

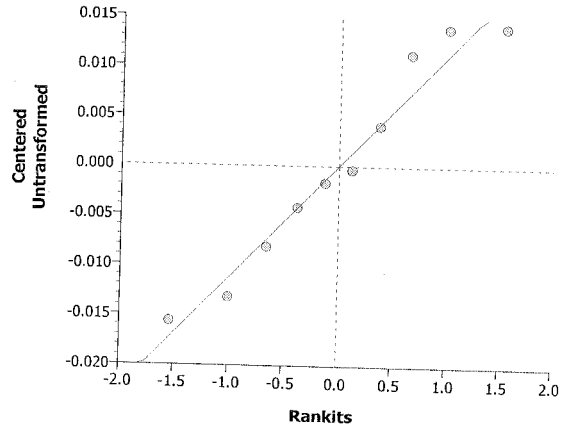
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSS2	-1.1672	1.85955	0.8616	0.01343	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.08872	0.07550	0.10000	0.00897				
GPSS2	5	0.09715	0.08150	0.11125	0.01343				

Graphics





CETIS Analysis Detail

00059664

Analysis: 09-5858-7816/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.98361	23.15450	0.52341	Equal Variances
Distribution	Shapiro-Wilk W	0.91253	0.78055	0.28545	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0013374	0.0013374	1	11.15	0.01025	Significant Effect
Error	0.0009596	0.00012	8			
Total	0.00229702	0.0014573	9			

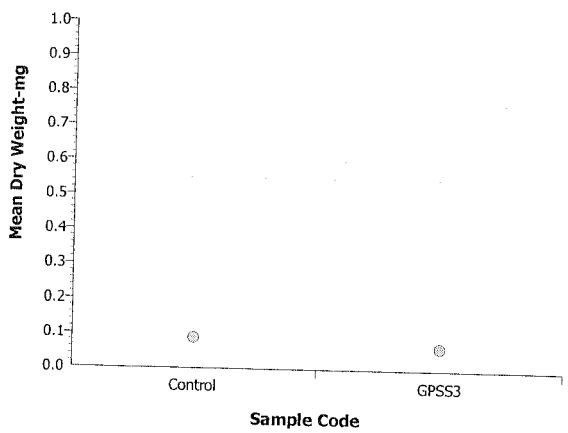
Group Comparisons

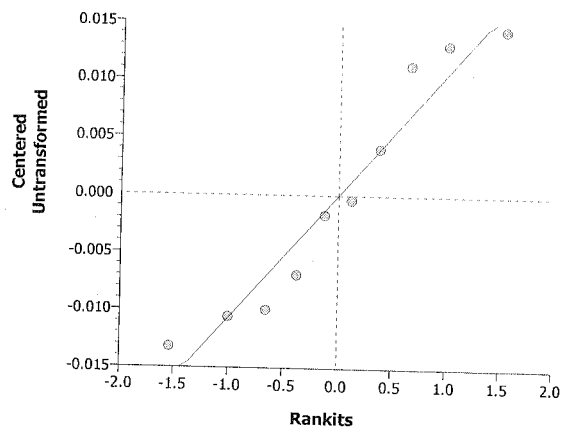
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
Control		GPSS3	3.33904	1.85955	0.0051	0.01288	Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
Control	5	0.08872	0.07550	0.10000	0.00897				
GPSS3	5	0.06559	0.05500	0.08000	0.01263				

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.13805	23.15450	0.90329	Equal Variances
Distribution	Shapiro-Wilk W	0.95032	0.78055	0.64201	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0010484	0.0010484	1	3.95	0.08216	Non-Significant Effect
Error	0.0021244	0.0002656	8			
Total	0.00317285	0.001314	9			

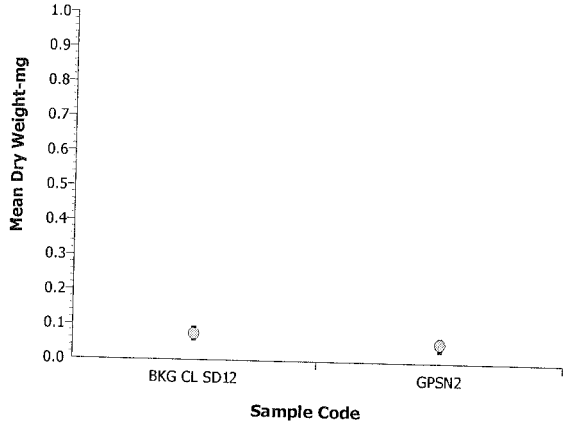
Group Comparisons

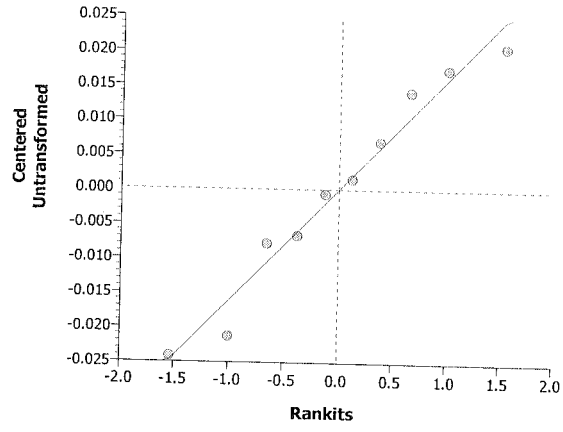
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSN2	1.98697	1.85955	0.0411	0.01917	Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKG CL SD12	5	0.07518	0.05389	0.09588	0.01576				
GPSN2	5	0.05470	0.03055	0.07211	0.01681				

Graphics





CETIS Analysis Detail

Comparisons: 00059666
Report Date: 17 Nov-06 12:41 PM
Analysis: 04-3614-2521/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.27181	23.15450	0.82139	Equal Variances
Distribution	Shapiro-Wilk W	0.94200	0.78055	0.54580	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0010435	0.0010435	1	3.70	0.09069	Non-Significant Effect
Error	0.0022573	0.0002822	8			
Total	0.00330085	0.0013257	9			

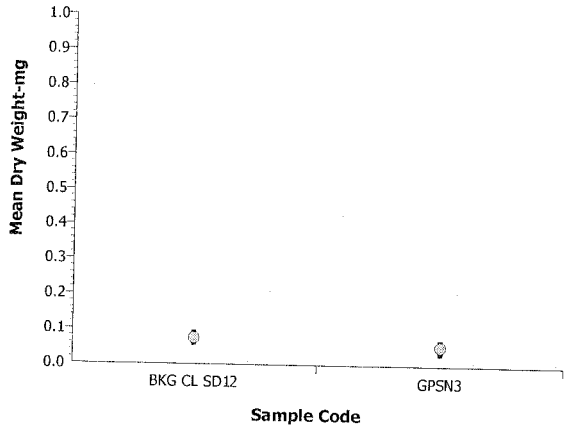
Group Comparisons

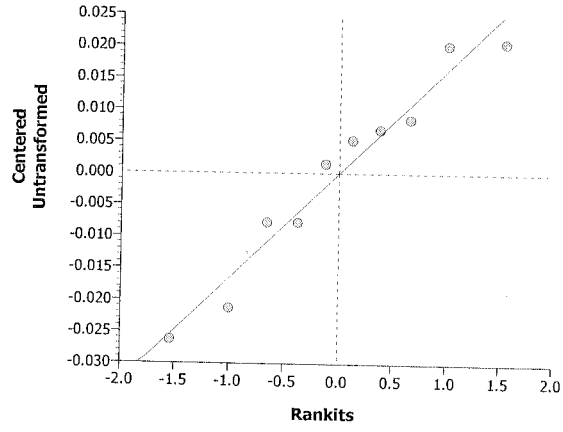
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSN3	1.92307	1.85955	0.0453	0.01976	Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKG CL SD12	5	0.07518	0.05389	0.09588	0.01576				
GPSN3	5	0.05474	0.02846	0.07500	0.01777				

Graphics





CETIS Analysis Detail

Report Date: 17 Nov-06 12:41 PM
Analysis: 00-8477-5788/0610-T048

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:40 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.06341	23.15450	0.95392	Equal Variances
Distribution	Shapiro-Wilk W	0.93694	0.78055	0.49156	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	3.897E-06	3.897E-06	1	0.02	0.90490	Non-Significant Effect
Error	0.0020503	0.0002563	8			
Total	0.00205416	0.0002602	9			

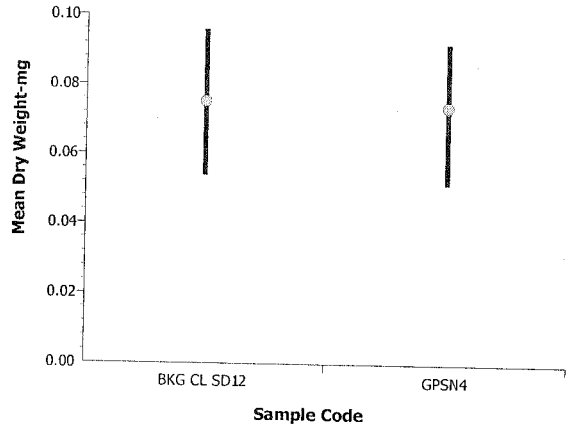
Group Comparisons

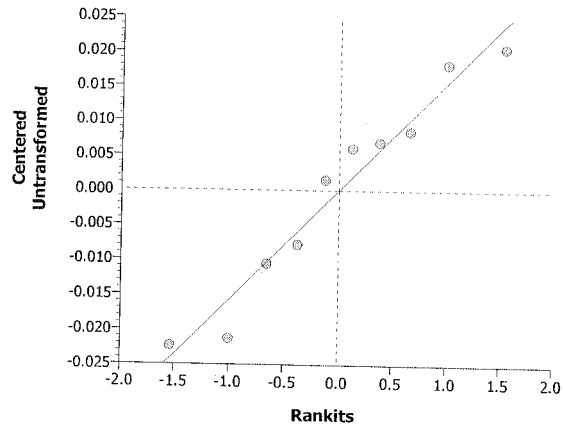
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSN4	0.12332	1.85955	0.4524	0.01883	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKG CL SD12	5	0.07518	0.05389	0.09588	0.01576				
GPSN4	5	0.07393	0.05158	0.09222	0.01625				

Graphics





CETIS Analysis Detail

Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:41 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.37783	23.15450	0.76366	Equal Variances
Distribution	Shapiro-Wilk W	0.96352	0.78055	0.80264	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0012071	0.0012071	1	5.63	0.04503	Significant Effect
Error	0.0017148	0.0002143	8			
Total	0.00292193	0.0014215	9			

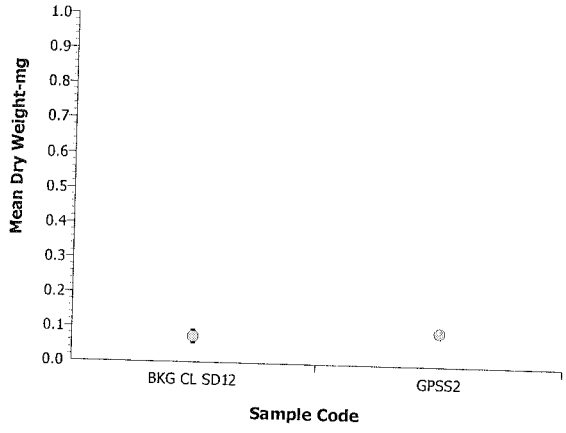
Group Comparisons

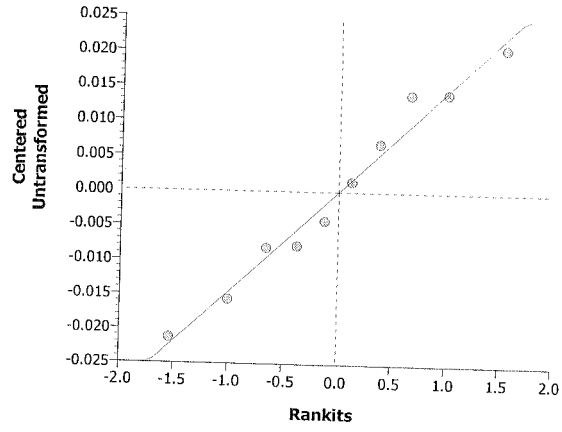
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSS2	-2.3731	1.85955	0.9775	0.01722	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKG CL SD12	5	0.07518	0.05389	0.09588	0.01576				
GPSS2	5	0.09715	0.08150	0.11125	0.01343				

Graphics





Hyalella 10-d Survival and Growth Sediment Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Mean Dry Weight-mg	Comparison	16-0632-3197	16-0632-3197	17 Nov-06 12:41 PM	CETISv1.025

Method	Alt H	Data Transform	Z
Equal Variance t	C > T	Untransformed	

NOEL	LOEL	Toxic Units	ChV	MSDp
		N/A		

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Variance Ratio	1.55742	23.15450	0.67823	Equal Variances
Distribution	Shapiro-Wilk W	0.95162	0.78055	0.65761	Normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	0.0002296	0.0002296	1	1.13	0.31968	Non-Significant Effect
Error	0.0016316	0.000204	8			
Total	0.00186121	0.0004335	9			

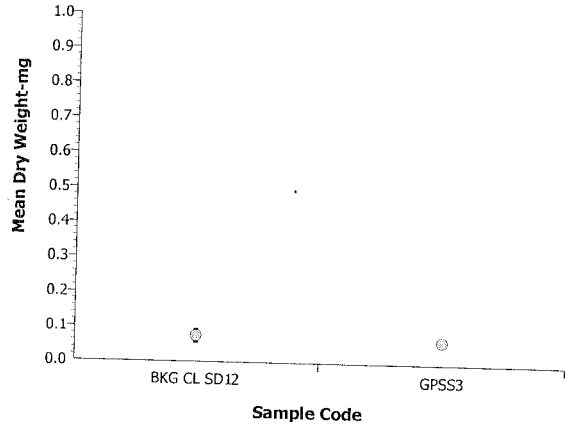
Group Comparisons

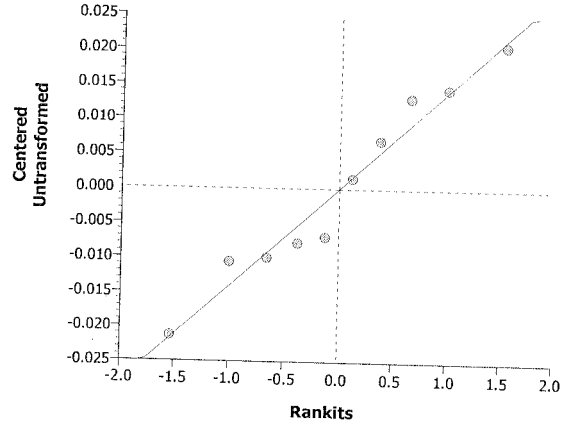
Sample	vs	Sample	Statistic	Critical	P Level	MSD	Decision(0.05)
BKG CL SD12		GPSS3	1.06098	1.85955	0.1598	0.0168	Non-Significant Effect

Data Summary

Sample Code	Count	Original Data Mean	Original Data Minimum	Original Data Maximum	Original Data SD	Transformed Data Mean	Transformed Data Minimum	Transformed Data Maximum	Transformed Data SD
BKG CL SD12	5	0.07518	0.05389	0.09588	0.01576				
GPSS3	5	0.06559	0.05500	0.08000	0.01263				

Graphics





Attachment A-4

96-hr *Lumbriculus variegatus* Toxicity Screen

Attachment Table A-4. *Lumbriculus variegatus* 96-Hour Acute Sediment Toxicity Screen
Longhorn Army Ammunition Plant
Test Initiation Date: October 27, 2006

Site ID	Replicate	# Alive	Percent Survival	Mean Percent Survival
Control	1	9	90	95
	2	10	100	
GPSN2	1	10	100	100
	2	10	100	
GPSN3	1	10	100	95
	2	9	90	
GPSN4	1	10	100	100
	2	10	100	
GPSS2	1	10	100	95
	2	9	90	
GPSS3	1	9	90	95
	2	10	100	
IWSD06	1	10	100	100
	2	10	100	
GPWSD03	1	10	100	100
	2	10	100	

Attachment A-5

28-day *Eisenia fetida* Survival Results

Attachment Table A-5. Summary of 28-Day Survival and Growth (*Eisenia fetida*)
Longhorn Army Ammunition Plant
Test Initiation Date: October 13, 2006

Site	Rep	# Alive (start count=30)	% Survival	Mean % Survival	St. Dev.	Initial Weight (g)	Total Initial Wt. (g)	Total Initial Wt. per Org. (g)	Total Final Wt. (g)	Total Final Wt. per Org. (g)	Mean Weight Loss per Org. (g)	% Weight Loss per Org.
Control	1	22	73.3			3.913						
	2	29	96.7			4.938						
	3	30	100.0			3.562						
	4	28	93.3			4.364						
	5	27	90.0			4.221						
	6	29	96.7			3.149						
	7	30	100.0			4.644						
	8	30	100.0			6.089						
	9	29	96.7			3.935						
	10	29	96.7	94.3	8.0	2.899	41.71	0.139	31.38	0.111	-0.028	20.3
LH-S24-01-BERA-SS01	1	29	96.7			3.988						
	2	30	100.0			4.690						
	3	28	93.3			3.815						
	4	27	90.0			4.528						
	5	27	90.0			4.076						
	6	29	96.7			5.278						
	7	28	93.3			4.323						
	8	30	100.0			3.667						
	9	30	100.0			5.331						
	10	30	100.0	96.0	4.1	3.782	43.48	0.145	31.38	0.109	-0.036	24.8
LH-DL723--01-BERA-SS02	1	30	100.0			4.666						
	2	27	90.0			4.115						
	3	29	96.7			4.896						
	4	30	100.0			5.145						
	5	30	100.0			5.184						
	6	30	100.0			4.320						
	7	30	100.0			4.363						
	8	29	96.7			5.785						
	9	30	100.0			3.149						
	10	30	100.0	98.3	3.2	3.697	45.32	0.151	31.38	0.106	-0.045	29.6
25C56-BERA-SS03	1	29	96.7			4.297						
	2	30	100.0			4.105						
	3	30	100.0			5.522						
	4	27	90.0			4.564						
	5	30	100.0			3.541						
	6	30	100.0			4.797						
	7	30	100.0			4.004						
	8	28	93.3			3.429						
	9	30	100.0			4.187						
	10	30	100.0	98.0	3.6	4.734	43.18	0.144	31.38	0.107	-0.037	25.8
LHSMW02-BERA-SS04	1	30	100.0			5.611						
	2	30	100.0			4.071						
	3	30	100.0			4.417						
	4	30	100.0			3.201						
	5	30	100.0			5.344						
	6	30	100.0			3.963						
	7	28	93.3			2.986						
	8	30	100.0			4.727						
	9	30	100.0			5.010						
	10	30	100.0	99.3	2.1	3.173	42.50	0.142	31.38	0.105	-0.036	25.7
LHSMW50-BERA-SS05	1	30	100.0			5.907						
	2	30	100.0			3.722						
	3	30	100.0			4.370						
	4	30	100.0			4.073						
	5	30	100.0			4.105						
	6	30	100.0			3.506						
	7	30	100.0			4.209						
	8	30	100.0			3.108						
	9	30	100.0			3.888						
	10	30	100.0	100.0	0.0	4.112	41.00	0.137	31.38	0.105	-0.032	23.5

00059673

Attachment Table A-5 (cont). Summary of 28-Day Survival and Growth (*Eisenia fetida*)
Longhorn Army Ammunition Plant
Test Initiation Date: October 13, 2006

Site	Rep	# Alive	% Survival	Mean % Survival	St. Dev.	Initial Weight (g)	Total Initial Wt. (g)	Total Initial Wt. per Org. (g)	Total Final Wt. (g)	Total Final Wt. per Org. (g)	Mean Weight Loss per Org. (g)	% Weight Loss per Org.
17SD07-BERA-SS06	1	29	96.7			4.948						
	2	27	90.0			4.829						
	3	30	100.0			4.533						
	4	30	100.0			3.231						
	5	29	96.7			3.566						
	6	28	93.3			5.147						
	7	30	100.0			4.048						
	8	30	100.0			4.672						
	9	30	100.0			4.011						
	10	30	100.0	97.7	3.5	4.787	43.77	0.146	43.21	0.147	0.002	-1.1
N50E25-BERA-SS07	1	28	93.3			5.203						
	2	27	90.0			4.727						
	3	30	100.0			4.017						
	4	30	100.0			5.422						
	5	30	100.0			4.904						
	6	28	93.3			3.471						
	7	28	93.3			4.036						
	8	27	90.0			3.816						
	9	30	100.0			3.947						
	10	28	93.3	95.3	4.2	4.276	43.82	0.146	27.69	0.097	-0.049	33.7
17SS22-BERA-SS08	1	30	100.0			3.545						
	2	30	100.0			3.859						
	3	30	100.0			5.011						
	4	30	100.0			3.351						
	5	29	96.7			5.114						
	6	30	100.0			3.901						
	7	30	100.0			3.674						
	8	30	100.0			5.417						
	9	30	100.0			4.020						
	10	30	100.0	99.7	1.1	4.265	42.16	0.141	37.43	0.125	-0.015	10.9
17SB02-BERA-SS09	1	30	100.0			4.733						
	2	30	100.0			4.322						
	3	30	100.0			4.578						
	4	30	100.0			4.409						
	5	30	100.0			4.185						
	6	30	100.0			4.017						
	7	30	100.0			4.265						
	8	30	100.0			3.519						
	9	30	100.0			3.672						
	10	30	100.0	100.0	0.0	3.704	41.40	0.138	33.84	0.113	-0.025	18.3
17SB04-BERA-SS10	1	28	93.3			5.478						
	2	30	100.0			4.356						
	3	30	100.0			4.081						
	4	30	100.0			3.894						
	5	30	100.0			5.318						
	6	30	100.0			3.645						
	7	30	100.0			3.648						
	8	30	100.0			4.953						
	9	30	100.0			5.152						
	10	24	80.0	97.3	6.4	3.940	44.47	0.148	34.72	0.119	-0.029	19.8

00059674

ATTACHMENT B – Water Quality Measurements

Attachment B-1
Sediment Porewater

00059677

Nautilus Environmenta Physical and Chemical
Washington Laborator Measurements of Porewaters
Tacoma, WA 98424 Sediment Bioassays

Client : Shaw LHAAP

Test No: 0610-T048
0610-T015
0610-T049

Site	Sulfide (mg/L)	Ammonia (mg/L)	Tech
BkG CL-SD12	0.061	3.6	HL
IWS* DD6	0.195	~~3.6~~ HL 0.7	HL
CL * GPSS-2	0.007	~~13.6~~ HL 0.4	HL
GPW* SD03	0.329	0.6	HL
CL * GPSS-3	0.015	1.3	HL
GPW* SD02	0.220	0.8	HL
BKG* SD04	0.572	1.0	HL
CL GPSN-3*	0.010	2.7	HL

Sample Description: _____

Comments: * Dry sediment, mixed with DI 1:1 to get porewater measurements

QA Check: KB

00059678

Nautilus Environmenta Physical and Chemical
Washington Laborator Measurements of Porewaters
Tacoma, WA 98424 Sediment Bioassays

Client : Shaw LHAAP

Test No: 0610-T048
0610-T015
0610-T049

Site	Sulfide (mg/L)	Ammonia (mg/L)	Tech
Cl-* GPSN-2	0.077	4.2	HL
Cl * GPSN-4	0.014	5.1	HL

Sample Description: _____

Comments: *Dry Sediment, mixed with DI 1:1 to get porewater measurements

QA Check: KB

Attachment B-2
10-day *Hyalella azteca* Water Quality Measurements
Goose Prairie Creek Sediments

Attachment Table B-2. 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 20, 2006

Control						
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.0	7.8	7.76	303	<1.0	<0.005
1	22.7	8.1	7.91	344	---	---
2	22.3	8.2	8.13	364	---	---
3	22.6	8.1	7.88	373	---	---
4	22.5	7.6	8.09	397	---	---
5	22.3	7.9	8.07	345	---	---
6	22.5	7.8	8.04	332	---	---
7	22.8	7.8	7.88	320	---	---
8	22.4	7.6	7.73	338	---	---
9	22.5	7.5	7.97	325	---	---
10	22.6	7.7	8.09	340	1.4	<0.005

00059680

Attachment Table B-2 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 20, 2006

BKG-SD04-BERA-REFSD-01 (Goose Prairie Creek Reference Sediment)						
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.0	7.6	7.34	153	1.0	<0.005
1	22.6	8.2	7.59	171	---	---
2	22.1	8.3	7.74	186	---	---
3	22.4	7.9	7.57	190	---	---
4	22.3	7.7	7.68	199	---	---
5	22.3	7.8	7.74	172	---	---
6	22.4	7.9	7.79	171	---	---
7	22.5	7.6	7.62	156	---	---
8	22.6	7.4	7.58	160	---	---
9	22.3	7.5	7.69	160	---	---
10	22.4	7.8	7.91	177	1.9	<0.005

00059681

Attachment Table B-2 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 20, 2006

IWSD06-BERA-SD06						
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.0	8.3	6.11	116	<1.0	<0.005
1	22.5	8.4	6.34	141	---	---
2	22.2	8.4	5.70	145	---	---
3	22.4	8.0	5.40	152	---	---
4	22.2	7.9	5.52	147	---	---
5	22.2	8.0	6.48	125	---	---
6	22.4	7.9	7.04	126	---	---
7	22.7	7.7	7.06	119	---	---
8	22.5	7.2	7.11	137	---	---
9	22.6	7.6	7.37	127	---	---
10	22.5	7.7	7.38	127	1.7	<0.005

00059682

Attachment Table B-2 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 20, 2006

GPWSD03-BERA-SD07						
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.0	8.4	6.44	138	<1.0	<0.005
1	22.4	8.5	6.75	159	---	---
2	22.1	8.4	6.32	169	---	---
3	22.3	8.0	5.67	169	---	---
4	22.1	7.9	5.59	175	---	---
5	22.2	7.9	6.73	134	---	---
6	22.3	7.7	7.22	138	---	---
7	22.6	7.9	7.32	136	---	---
8	22.4	7.2	7.30	142	---	---
9	22.6	7.5	7.51	143	---	---
10	22.4	7.5	7.63	149	2.7	<0.005

00059683

Attachment Table B-2 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 20, 2006

GPWSD02-BERA-SD11						
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.1	7.0	6.66	160	<1.0	<0.005
1	22.4	8.5	7.06	170	---	---
2	22.1	8.5	6.85	174	---	---
3	22.3	7.8	6.49	172	---	---
4	22.2	7.8	6.36	177	---	---
5	22.2	7.9	6.85	164	---	---
6	22.4	7.7	7.27	152	---	---
7	22.6	7.8	7.25	132	---	---
8	22.6	7.4	7.23	149	---	---
9	22.3	7.5	7.42	131	---	---
10	22.4	7.9	7.46	139	2.6	<0.005

00059684

Attachment B-3

10-day *Hyalella azteca* Water Quality Measurements

Caddo Lake Sediments

Attachment Table B-3. 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

Control							
Day	Temp (°C)	D.O. (mg/L)	pH (units) pre-renewal	pH (units) post-renewal	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.5	7.3	NA	7..71	358	<1.0	<0.005
1	22.1	7.6	7.94	7.62	338	---	---
2	22.9	7.8	7.92	7.69	332	---	---
3	22.9	7.3	8.00	7.71	329	---	---
4	22.7	7.2	8.05	7.73	327	---	---
5	22.9	7.1	8.01	7.75	329	---	---
6	23.0	7.5	7.98	8.00	361	---	---
7	22.8	8.1	8.00	7.72	342	---	---
8	22.7	7.5	7.83	7.42	339	---	---
9	23.0	7.4	7.91	7.71	340	---	---
10	22.8	7.4	8.13	NA	354	2.8	0.0

00059686

Attachment Table B-3 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

BKG-CL-SD12-BERA-REFSD-02 (Caddo Lake Reference Sediment)							
Day	Temp (°C)	D.O. (mg/L)	pH (units) pre-renewal	pH (units) post-renewal	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.5	6.1	6.37	7.29	237	1.1	<0.005
1	22.3	6.2	6.92	6.34	249	---	---
2	22.6	6.5	6.78	6.28	242	---	---
3	22.9	7.4	7.25	6.27	251	---	---
4	22.7	7.1	7.16	6.25	253	---	---
5	22.9	7.1	7.18	6.37	249	---	---
6	23.0	7.4	7.32	6.57	286	---	---
7	22.9	8.0	7.23	6.42	258	---	---
8	22.5	7.1	7.30	6.33	266	---	---
9	22.8	7.4	7.46	6.73	282	---	---
10	22.5	6.2	7.32	NA	289	2.5	0.010

0005987

Attachment Table B-3 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSN-2-BERA-SD09							
Day	Temp (°C)	D.O. (mg/L)	pH (units) pre-renewal	pH (units) post-renewal	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.5	6.6	6.10	6.61	244	1.7	<0.005
1	22.3	7.7	6.27	6.27	239	---	---
2	22.9	8.0	6.73	6.11	238	---	---
3	22.9	7.2	6.01	6.24	242	---	---
4	22.7	7.1	6.01	6.27	245	---	---
5	22.9	6.9	6.03	6.28	243	---	---
6	23.0	7.7	6.03	6.51	257	---	---
7	22.9	7.9	6.62	6.42	247	---	---
8	22.8	7.5	6.60	6.47	248	---	---
9	23.0	7.3	6.85	6.71	252	---	---
10	22.9	7.4	6.84	NA	249	2.8	0.197

00059688

Attachment Table B-3 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSN-3-BERA-SD02							
Day	Temp (°C)	D.O. (mg/L)	pH (units) pre-renewal	pH (units) post-renewal	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.7	6.2	5.66	6.02	229	<1.0	<0.005
1	22.3	7.3	6.92	6.30	246	---	---
2	22.8	7.9	6.96	6.15	246	---	---
3	22.9	7.3	7.23	6.27	258	---	---
4	22.8	7.2	7.15	6.37	255	---	---
5	22.9	7.0	7.18	6.42	257	---	---
6	23.0	7.5	7.12	6.28	277	---	---
7	23.0	8.1	6.84	6.38	253	---	---
8	22.7	7.4	7.11	6.37	261	---	---
9	22.9	7.5	7.26	6.37	271	---	---
10	22.9	7.1	6.88	NA	263	1.8	0.569

00059689

Attachment Table B-3 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSN-4-BERA-SD01							
Day	Temp (°C)	D.O. (mg/L)	pH (units) pre-renewal	pH (units) post-renewal	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.4	6.1	6.90	6.93	250	<1.0	<0.005
1	22.3	7.4	7.07	6.24	266	---	---
2	22.9	7.6	6.82	6.17	260	---	---
3	22.9	7.3	6.94	6.26	264	---	---
4	22.8	7.2	6.95	6.27	265	---	---
5	22.9	7.1	7.01	6.86	262	---	---
6	23.0	7.6	6.96	6.38	297	---	---
7	22.9	8.0	6.83	6.32	271	---	---
8	22.6	7.4	6.88	6.35	270	---	---
9	22.9	7.3	6.77	6.49	277	---	---
10	22.7	5.1	6.34	NA	282	2.8	0.306

00059690

Attachment Table B-3 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSS-2-BERA-SD04							
Day	Temp (°C)	D.O. (mg/L)	pH (units) pre-renewal	pH (units) post-renewal	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.4	5.7	6.33	7.15	245	<1.0	<0.005
1	22.5	7.6	7.22	6.62	257	---	---
2	22.9	7.5	7.16	6.64	259	---	---
3	22.9	7.3	7.45	6.57	274	---	---
4	22.8	7.1	7.48	6.72	275	---	---
5	22.9	6.9	7.49	6.71	273	---	---
6	23.0	7.3	7.48	6.76	305	---	---
7	23.0	7.8	7.47	6.72	282	---	---
8	22.6	7.4	7.42	6.78	279	---	---
9	22.9	7.5	7.49	7.02	291	---	---
10	22.8	5.5	7.24	NA	302	3.3	0.016

00059691

Attachment Table B-3 (cont). 10-Day Amphipod Survival and Growth Test (*Hyalella azteca*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSS-3-BERA-SD10							
Day	Temp (°C)	D.O. (mg/L)	pH (units) pre-renewal	pH (units) post-renewal	Conductivity (umhos/cm)	Total NH3 (mg/L) Overlying	Sulfides (mg/L) Overlying
0	22.7	5.0	6.14	7.15	240	<1.0	<0.005
1	22.4	7.3	7.31	6.42	268	---	---
2	22.9	6.7	6.83	6.48	274	---	---
3	22.9	7.3	7.40	6.53	276	---	---
4	22.8	7.2	7.51	6.78	278	---	---
5	22.9	6.9	7.52	6.65	274	---	---
6	23.0	7.5	7.44	6.62	318	---	---
7	23.0	7.5	7.35	6.75	275	---	---
8	22.6	7.5	7.36	6.82	280	---	---
9	22.9	7.4	7.43	6.95	295	---	---
10	22.5	5.7	7.21	NA	311	1.8	0.119

00059692

Attachment B-4
Lumbriculus variegatus Water Quality Measurements

96-Hour Toxicity Screen

Nautilus

96 Hour Toxicity Screen Data Sheet - ~~AMEC Bioassay Northwest Laboratory~~

Freshwater Sediment 96 hour Water Chemistries

Client: Slaw / LHAAP
Conc. or Site:
Test #: Screen

Start Date & Time: 10/27/06
End Date & Time: 10/31/06
Test Organism: *L. variegatus*

Site	Day	Ammonia (mg/L)	Alkalinity (mg/L CaCO3)	Hardness (mg/L CaCO3)	pH (units)	Cond. (umhos/cm)	Dissolved O_2 (mg/L)	Temp. (°C)	Renewals #1	Renewals #2	Tech.
Control	0	<1.0	60	80	6.46	313	7.1	23.0	✓	✓	MC
	1				5.98	292	6.3	22.9	✓	✓	JES
	2				7.48	276	7.6	22.4	✓	✓	MC
	3				7.60	276	7.8	22.7	✓	✓	JES
	4				7.64	278	7.9	22.8			KB
GPSS-2	0	<1.0	48	72	6.16	234	5.6	23.0		✓	MC
	1				7.20	242	7.7	22.9	✓	✓	JES
	2				7.26	239	7.6	22.2	✓	✓	MC
	3				7.51	247	7.7	22.7	✓	✓	JES
	4				7.58	251	7.9	22.8			KB
~~GPWSD03~~ KB	0	<1.0	40	72	7.09	271	7.2	23.0		✓	MC
	1				7.66	278	7.9	22.9	✓	✓	JES
GPWSD-03	2				7.65	283	7.7	22.2	✓	✓	MC
	3				7.96	278	7.9	22.6	✓	✓	JES
	4				8.00	284	7.9	22.7			KB
IWSD06	0	1.2	40	60	6.62	250	6.8	23.0		✓	MC
	1				7.53	255	7.8	22.9	✓	✓	JES
	2				7.77	261	7.8	22.4	✓	✓	MC
	3				7.98	269	7.4	22.4	✓	✓	JES
	4				8.01	270	7.8	22.6			KB

Comments:

Analysts:

00059695

96 Hour Toxicity Screen Data Sheet - ~~AMEC Bioassay Northwest Laboratory~~ Nautilus

Freshwater Sediment 96 hour Water Chemistries

Client: Shaw / LHAAP
Conc. or Site:
Test #: Screen

Start Date & Time: 10/27/06
End Date & Time: 10/31/06
Test Organism: *L. variegatus*

Site	Day	Ammonia (mg/L)	Alkalinity (mg/L CaCO3)	Hardness (mg/L CaCO3)	pH (units)	Cond. (umhos/cm)	Dissolved O_2 (mg/L)	Temp. (°C)	Renewals #1	Renewals #2	Tech.
GPSS-3	0	<1.0	40	60	6.26	238	5.7	23.9			mc
	1				~~7.44~~ 6.47	~~256~~ 245	~~7.8~~ 7.0	22.9	✓	✓	les
	2				7.43	246	7.7	22.4	✓	✓	mc
	3				7.50	241	7.8	22.6	✓	✓	les
	4				7.60	242	7.9	22.8	✓	✓	KS
GPSN-4	0	<1.0	44	60	5.26	252	5.8	23.0			mc
	1				4.54	271	6.7	22.8	✓	✓	les
	2				5.16	264	7.6	22.5	✓	✓	mc
	3				6.12	253	7.7	22.5	✓	✓	les
	4				6.50	251	7.8	22.6	✓		KS
GPNSD02	0	<1.0	40	64	6.69	261	6.7	23.0			mc
	1				7.44	256	7.8	22.7	✓	✓	les
	2				7.38	265	7.7	22.4	✓	✓	mc
	3				7.72	262	7.9	22.5	✓	✓	les
	4				7.73	261	7.8	22.7	✓		KS
GPSN-3	0	1.0	44	60	5.55	222	5.2	23.0			mc
	1				6.41	228	7.7	22.9	✓	✓	les
	2				6.47	227	7.8	22.4	✓	✓	mc
	3				6.40	221	7.7	22.4	✓	✓	les
	4				6.49	220	7.9	22.6	✓		KS

Comments:

Analysts:

00059696

96 Hour Toxicity Screen Data Sheet - AMEC Bioassay Northwest Laboratory

Freshwater Sediment 96 hour Water Chemistries

Client: Shaw / LHAAP

Conc. or Site:

Test #: Screen

Start Date & Time: ~~10/26/06~~ 10/27/06

End Date & Time: 10/31/06

Test Organism: *L. variegatus*

Site	Day	Ammonia (mg/L)	Alkalinity (mg/L CaCO3)	Hardness (mg/L CaCO3)	pH (units)	Cond. (umhos/cm)	Dissolved O_2 (mg/L)	Temp. (°C)	Renewals #1	Renewals #2	Tech.
GPSN-2	0	1.0	48	KB ~~38~~ 64	6.10	237	6.3	23.0			MW
	1				6.23	250	7.1	22.9	✓	✓	LES
	2				7.31	243	7.7	22.3	✓	~	MW
	3				7.49	236	7.4	22.4	~	~	LES
	4				7.60	240	7.6	22.8			KD
~~GP~~ (K)	0										
	1										
	2										
	3										
	4										
	0										
	1										
	2										
	3										
	4										
	0										
	1										
	2										
	3										
	4										

Comments:

Analysts:

0005997

28-Day Bioaccumulation Test

Attachment Table B-4. 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

Control							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.9	7.8	6.11	365	24	80	3.8
1	22.2	4.8	5.76	378	---	---	---
2	22.1	5.5	6.44	353	---	---	---
3	22.5	5.5	6.86	344	---	---	---
4	22.3	5.6	6.89	347	---	---	---
5	22.5	5.5	6.82	345	---	---	---
6	22.7	5.9	7.00	349	---	---	---
7	22.7	6.4	7.02	337	40	68	3.2
8	22.4	5.4	6.88	338	---	---	---
9	22.2	6.2	7.23	332	---	---	---
10	22.4	6.9	7.29	318	---	---	---
11	22.2	5.6	7.20	306	---	---	---
12	22.3	6.4	7.48	305	---	---	---
13	22.4	6.5	7.37	288	---	---	---
14	22.3	6.3	7.38	290	24	68	2.6
15	22.4	6.5	7.38	290	---	---	---
16	22.1	6.6	7.44	285	---	---	---
17	22.1	6.5	7.20	287	---	---	---
18	22.1	7.4	7.54	290	---	---	---
19	22.3	6.9	7.53	296	---	---	---
20	22.5	6.4	7.43	288	---	---	---
21	22.5	6.4	7.46	288	52	80	1.5
22	22.5	6.5	7.35	289	---	---	---
23	21.8	6.2	7.44	286	---	---	---
24	22.3	6.2	7.41	290	---	---	---
25	21.7	6.4	7.46	284	---	---	---
26	22.4	6.5	7.49	292	---	---	---
27	21.6	6.1	7.46	290	---	---	---
28	22.2	7.6	7.96	302	60	88	2.4

00059699

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSN-2-BERA-SD09							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.8	7.1	5.11	141	18	28	1.8
1	22.2	5.6	5.04	153	---	---	---
2	22.1	4.8	5.29	138	---	---	---
3	22.6	6.1	5.44	133	---	---	---
4	22.5	5.9	5.46	136	---	---	---
5	22.4	6.0	5.37	135	---	---	---
6	22.7	6.1	5.55	141	---	---	---
7	22.7	6.2	5.84	131	12	16	2.4
8	22.6	5.7	6.13	130	---	---	---
9	22.5	6.3	6.40	129	---	---	---
10	22.5	6.7	6.54	126	---	---	---
11	22.3	6.5	6.80	125	---	---	---
12	22.4	5.9	6.66	116	---	---	---
13	22.3	6.0	6.64	109	---	---	---
14	22.3	6.0	6.55	110	12	16	2.5
15	22.4	6.1	6.46	110	---	---	---
16	22.1	6.0	6.40	108	---	---	---
17	22.2	5.9	6.23	109	---	---	---
18	22.2	6.2	6.43	109	---	---	---
19	22.5	6.0	6.50	109	---	---	---
20	22.6	5.8	6.51	108	---	---	---
21	22.5	6.1	6.51	109	12	16	3.3
22	22.5	6.3	6.34	108	---	---	---
23	21.9	6.0	6.52	105	---	---	---
24	22.3	6.1	6.57	109	---	---	---
25	21.9	6.4	6.60	106	---	---	---
26	22.0	6.3	6.55	110	---	---	---
27	21.5	6.2	6.41	106	---	---	---
28	22.3	7.7	7.22	110	16	20	4.2

00059700

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSN-3-BERA-SD02							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.7	6.4	4.87	128	18	28	1.3
1	22.2	6.0	4.88	140	---	---	---
2	22.2	5.2	4.94	132	---	---	---
3	22.7	4.8	5.04	132	---	---	---
4	22.5	5.1	5.06	133	---	---	---
5	22.3	5.2	5.10	131	---	---	---
6	22.8	7.1	5.23	149	---	---	---
7	22.8	7.4	5.91	136	12	16	2.5
8	22.6	6.5	6.13	135	---	---	---
9	22.2	7.0	6.40	132	---	---	---
10	22.6	7.9	6.60	130	---	---	---
11	22.2	7.0	7.01	116	---	---	---
12	22.4	7.1	6.76	114	---	---	---
13	22.3	6.9	6.71	108	---	---	---
14	22.3	7.1	6.54	110	12	16	3.1
15	22.4	6.8	6.31	113	---	---	---
16	22.3	7.1	6.37	111	---	---	---
17	22.3	7.0	6.17	109	---	---	---
18	22.1	7.6	6.08	115	---	---	---
19	22.4	7.5	6.24	114	---	---	---
20	22.6	6.8	6.48	109	---	---	---
21	22.5	6.4	6.56	106	12	20	3.2
22	22.6	7.0	6.35	107	---	---	---
23	21.9	7.2	6.30	108	---	---	---
24	22.2	6.8	6.62	107	---	---	---
25	21.7	7.2	6.35	108	---	---	---
26	22.0	6.5	6.45	114	---	---	---
27	21.5	7.4	6.25	109	---	---	---
28	22.1	7.9	7.04	109	16	24	4.0

00059701

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSN-4-BERA-SD01							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.5	6.4	4.96	133	18	28	<1.0
1	22.2	6.4	4.87	152	---	---	---
2	22.3	5.4	5.13	144	---	---	---
3	22.5	5.4	4.97	150	---	---	---
4	22.5	5.6	5.05	149	---	---	---
5	22.4	5.5	5.09	153	---	---	---
6	22.7	4.8	4.74	178	---	---	---
7	22.7	5.2	5.08	168	8	16	3.2
8	22.5	4.5	4.82	184	---	---	---
9	22.4	4.7	5.63	174	---	---	---
10	22.3	5.9	6.14	156	---	---	---
11	22.1	4.1	6.17	147	---	---	---
12	22.3	4.8	6.31	133	---	---	---
13	22.3	4.1	6.18	127	---	---	---
14	22.1	6.3	6.24	129	8	20	3.6
15	22.2	6.5	6.00	131	---	---	---
16	22.2	6.5	6.06	132	---	---	---
17	22.2	6.0	5.75	134	---	---	---
18	21.9	7.4	6.05	129	---	---	---
19	22.1	7.0	6.19	128	---	---	---
20	22.3	6.5	6.44	121	---	---	---
21	22.3	5.6	6.30	124	8	20	3.6
22	22.4	6.0	6.01	127	---	---	---
23	21.5	6.7	6.35	120	---	---	---
24	22.1	5.9	6.32	127	---	---	---
25	21.5	7.0	6.50	119	---	---	---
26	22.3	6.1	6.39	124	---	---	---
27	21.3	6.4	6.30	125	---	---	---
28	22.3	7.5	7.18	131	12	36	4.1

00059702

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSS-2-BERA-SD04							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.2	5.9	5.47	126	20	24	<1.0
1	22.2	5.6	5.50	137	---	---	---
2	22.1	4.6	5.61	129	---	---	---
3	22.3	4.3	5.60	127	---	---	---
4	22.2	4.5	5.65	128	---	---	---
5	22.1	4.8	5.59	128	---	---	---
6	22.5	5.7	5.85	142	---	---	---
7	22.4	6.0	6.00	134	8	20	3.8
8	22.5	5.3	5.88	142	---	---	---
9	22.2	5.5	6.23	139	---	---	---
10	22.3	6.3	6.54	132	---	---	---
11	22.1	5.8	6.57	130	---	---	---
12	22.1	4.8	6.47	118	---	---	---
13	22.1	4.7	6.50	110	---	---	---
14	22.1	5.2	6.51	113	12	16	4.4
15	22.1	5.4	6.44	115	---	---	---
16	22.2	5.6	6.44	112	---	---	---
17	22.2	5.4	6.40	114	---	---	---
18	21.9	4.7	6.36	112	---	---	---
19	22.1	4.6	6.45	112	---	---	---
20	22.4	4.3	6.47	109	---	---	---
21	22.3	5.6	6.69	112	12	20	3.6
22	22.2	6.4	6.67	114	---	---	---
23	21.6	4.7	6.58	111	---	---	---
24	22.1	6.0	6.79	116	---	---	---
25	21.5	5.0	6.60	113	---	---	---
26	22.1	5.5	6.63	114	---	---	---
27	21.2	3.5	6.48	117	---	---	---
28	22.0	7.6	7.43	121	20	44	4.1

00059703

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

CL-GPSS-3-BERA-SD10							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.7	6.2	5.13	124	20	24	<1.0
1	22.2	6.1	5.09	136	---	---	---
2	22.2	4.4	5.31	130	---	---	---
3	22.4	4.2	5.44	133	---	---	---
4	22.5	4.7	5.46	132	---	---	---
5	22.5	4.9	5.47	133	---	---	---
6	22.6	6.5	5.23	170	---	---	---
7	22.5	7.1	5.69	155	8	20	2.6
8	22.4	6.3	5.34	169	---	---	---
9	22.2	6.9	6.21	160	---	---	---
10	22.3	6.6	6.40	148	---	---	---
11	22.2	5.0	6.35	142	---	---	---
12	22.1	6.1	6.52	129	---	---	---
13	22.1	6.4	6.61	120	---	---	---
14	22.1	6.4	6.51	122	8	20	2.5
15	22.1	6.3	6.33	123	---	---	---
16	22.1	6.2	6.34	119	---	---	---
17	22.0	6.1	6.24	120	---	---	---
18	21.9	5.8	6.26	118	---	---	---
19	22.1	5.7	6.37	116	---	---	---
20	22.2	5.6	6.50	112	---	---	---
21	22.2	5.7	6.48	114	8	20	2.0
22	22.2	6.2	6.37	114	---	---	---
23	21.7	5.7	6.49	110	---	---	---
24	22.1	6.0	6.55	114	---	---	---
25	21.4	6.1	6.46	113	---	---	---
26	22.5	6.3	6.51	119	---	---	---
27	21.4	4.8	6.41	112	---	---	---
28	22.1	7.4	7.31	116	20	34	2.9

00059704

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

IWSD06-BERA-SD06							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.5	7.5	6.47	157	20	24	1.7
1	22.2	6.8	6.77	158	---	---	---
2	22.2	6.2	6.70	157	---	---	---
3	22.3	6.0	6.77	157	---	---	---
4	22.4	6.1	6.78	158	---	---	---
5	22.3	6.0	6.79	159	---	---	---
6	22.6	6.0	6.70	158	---	---	---
7	22.5	6.5	6.87	157	24	24	2.2
8	22.5	6.3	6.89	157	---	---	---
9	22.1	6.7	6.97	158	---	---	---
10	22.3	7.8	7.17	159	---	---	---
11	22.0	6.8	7.29	160	---	---	---
12	22.0	6.6	7.19	156	---	---	---
13	22.1	6.6	7.22	149	---	---	---
14	22.2	6.6	7.18	150	36	32	1.5
15	22.1	6.7	7.17	151	---	---	---
16	22.1	6.6	7.12	156	---	---	---
17	22.1	6.6	7.11	155	---	---	---
18	21.8	7.0	7.19	150	---	---	---
19	21.8	6.8	7.18	151	---	---	---
20	22.2	6.4	7.17	152	---	---	---
21	22.1	6.4	7.15	155	32	40	<1.0
22	22.1	6.7	7.12	155	---	---	---
23	21.5	6.3	7.15	152	---	---	---
24	22.3	6.4	7.13	158	---	---	---
25	21.4	6.5	7.17	155	---	---	---
26	22.0	6.1	7.14	160	---	---	---
27	21.3	6.8	7.00	146	---	---	---
28	22.0	7.4	7.66	166	28	48	<1.0

00059705

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

GPWSD03-BERA-SD07							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.4	7.8	6.87	166	28	36	<1.0
1	22.2	6.8	7.08	173	---	---	---
2	22.1	6.0	7.07	174	---	---	---
3	22.3	5.3	7.02	176	---	---	---
4	22.5	5.7	7.03	178	---	---	---
5	22.2	5.5	7.05	179	---	---	---
6	22.5	7.1	7.37	178	---	---	---
7	22.5	7.6	7.44	176	36	40	1.6
8	22.4	6.8	7.43	178	---	---	---
9	22.1	7.5	7.42	177	---	---	---
10	22.3	8.2	7.49	176	---	---	---
11	22.1	6.8	7.47	175	---	---	---
12	22.0	6.8	7.41	166	---	---	---
13	22.1	7.3	7.42	158	---	---	---
14	22.1	7.1	7.43	159	32	36	<1.0
15	22.1	7.0	7.38	160	---	---	---
16	22.1	6.9	7.31	158	---	---	---
17	22.0	6.8	7.29	158	---	---	---
18	21.7	7.4	7.31	156	---	---	---
19	21.7	7.2	7.35	162	---	---	---
20	22.1	6.9	7.34	159	---	---	---
21	22.1	6.4	7.29	161	24	32	<1.0
22	22.2	6.6	7.25	162	---	---	---
23	21.5	6.7	7.33	159	---	---	---
24	22.1	6.4	7.26	164	---	---	---
25	21.3	7.3	7.47	159	---	---	---
26	22.5	5.9	7.30	162	---	---	---
27	21.3	7.2	7.44	160	---	---	---
28	22.4	7.8	7.76	171	36	52	<1.0

00059706

Attachment Table B-4 (cont). 28-Day Bioaccumulation Test (*Lumbriculus variegatus*)
Longhorn Army Ammunition Plant
Water Quality Data

Test Initiated October 31, 2006

GPWSD02-BERA-SD11							
Day	Temp (°C)	D.O. (mg/L)	pH (units)	Conductivity (umhos/cm)	Alkalinity (mg/L $CaCO_3$)	Hardness (mg/L $CaCO_3$)	Total NH3 (mg/L) Overlying
0	22.3	7.5	6.73	157	20	28	<1.0
1	22.2	5.1	6.56	163	---	---	---
2	22.1	4.2	6.51	165	---	---	---
3	22.3	4.1	6.46	167	---	---	---
4	22.4	4.7	6.57	168	---	---	---
5	22.3	5.2	6.59	171	---	---	---
6	22.4	5.4	6.62	172	---	---	---
7	22.5	5.6	6.66	170	20	20	4.5
8	22.5	5.1	6.61	170	---	---	---
9	22.1	5.4	6.68	170	---	---	---
10	22.3	7.1	6.91	167	---	---	---
11	22.1	5.9	6.94	167	---	---	---
12	22.0	6.6	7.04	154	---	---	---
13	22.1	5.1	6.81	150	---	---	---
14	22.1	5.2	6.85	151	28	28	5.1
15	22.1	5.1	6.80	152	---	---	---
16	22.1	5.2	6.74	152	---	---	---
17	22.1	5.1	6.79	152	---	---	---
18	21.7	6.1	6.90	151	---	---	---
19	22.0	5.6	6.91	157	---	---	---
20	22.1	5.5	6.93	156	---	---	---
21	22.0	5.0	6.87	158	28	32	4.7
22	22.1	5.5	6.88	159	---	---	---
23	21.5	5.5	6.91	157	---	---	---
24	22.2	5.2	6.93	163	---	---	---
25	21.3	5.7	6.97	158	---	---	---
26	22.0	5.4	6.83	156	---	---	---
27	21.4	7.1	7.45	166	---	---	---
28	22.5	7.5	7.64	171	44	52	4.9

0005970

Attachment B-5

28-day *Eisenia fetida* Environmental Quality Measurements

Attachment Table B-5. 28-day Bioaccumulation Test (*Eisenia fetida*)
Longhorn Army Ammunition Plant
Soil Quality Parameters

Site	% Moisture			pH (units)			Conductivity (umhos.com)		
	Day 0	Day 14	Day 28	Day 0	Day 14	Day 28	Day 0	Day 14	Day 28
Control	45	52	49	8.02	8.09	7.34	660	724	1286
LH0S24-01-BERA-SS01	45	47	52	5.18	5.14	4.53	77	110	538
LH-DL723-01-BERA-SS02	20	18	25	7.89	7.59	7.71	158	211	690
25C56-BERA-SS03	25	25	30	5.93	5.80	4.38	56	106	642
LHSMW02-BERA-SS04	25	25	27	5.70	5.82	5.65	52	45	215
LHSMW02-BERA-SS05	20	17	25	5.18	5.29	5.85	34	36	106
17-SD07-BERA-SS06	25	29	33	6.16	6.07	5.48	228	268	650
N50E25-BERA-SS07	20	25	27	6.57	6.73	5.37	23	78	615
17SS22-BERA-SS08	25	35	34	6.14	6.39	6.00	120	110	497
17SB02-BERA-SS09	25	27	27	7.89	7.57	7.61	193	251	933
17SB04-BERA-SS10	20	18	19	5.12	5.78	5.92	60	47	146

Test Day	Temp (°C)
0	20.1
1	21.3
2	21.2
3	21.0
4	20.9
5	20.9
6	20.9
7	21.0
8	21.0
9	21.0
10	21.0
11	21.1
12	21.0
13	21.0
14	21.0

Test Day	Temp (°C)
15	21.0
16	21.0
17	21.1
18	21.1
19	21.2
20	21.0
21	21.0
22	20.8
23	20.9
24	21.0
25	21.0
26	21.1
27	21.0
28	21.0

Nautilus Environmental
Earthworm test Day 0

00059710

Soil Weights

Site	Pan weight	Initial (wet)	Final (dry)	MF
01	1.21872	25.0032g	20.747799	28%
02	1.25359	25.05688g	23.89395	10.5%
03	1.25865	25.02956g	22.88608	15.8%
04	1.24372	25.04903g	23.05359	14.9%
05	1.25042	25.00102g	23.90835	10.4%
06	1.25516	25.04573g	23.24886	13.6%
07	1.25564	25.00862g	23.55639	12.1%
08	1.24228	25.0271g	23.38923	13.0%
09	1.26064	25.02375g	24.08800	9.6%
10	1.22869	25.0045g	23.77999	10.9%

MF= (I-F)/[A-(I-F)]*100

MF= Moisture fraction of bulk soil (in %)
I= Initial wet weight of sample + crucible (in grams)
F=Final dry weight of sample + crucible (in grams)
A= Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)
01	5.18	77	5.01	62
02	7.89	158	7.91	182
03	5.93	56	5.94	71
04	5.70	52	5.38	55
05	5.18	34	5.15	34
06	6.16	228	6.13	253
07	6.57	23	6.88	22
08	6.14	120	6.30	109
09	7.89	193	7.93	246
10	5.12	60	5.13	56
control	8.802	660	/	/

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

Nautilus Environmental

00059711

Soil Weights Day 28

Site	Pan weight	Initial (wet)	Final (dry)	MF
CON	1.405	~~26.298~~ *	18.570	49
01	1.473	25.192	17.052	52
02	1.447	26.060	21.115	25
03	1.459	~~26.908~~ *	20.802	30
04	1.374	26.422	21.027	27
05	1.419	26.932	21.908	25
06	1.451	26.126	19.959	33
07	1.605	26.118	20.893	27
08	1.472	26.405	20.088	34
09	1.527	26.317	21.099	27
10	1.422	25.777	21.948	19

* 27.030

* 26.573

MF= (I-F)/[A-(I-F)]*100

MF= Moisture fraction of bulk soil (in %)
I= Initial wet weight of sample + crucible (in grams)
F=Final dry weight of sample + crucible (in grams)
A= Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)
CON	7.34	1286		
01	4.53	~~690~~ *		
02	7.71	690		
03	4.38	642		
04	5.65	215		
05	5.85	106		
06	5.48	650		
07	5.37	615		
08	6.00	497		
09	7.61	933		
10	5.97	146		

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

* 538

00059712

Nautilus Environmental
Washington Laboratory
5009 Pacific Hwy. E., Suite 2
Tacoma, WA 98424

***Eisenia fetida* Bioassay**

Client/Project ID: Shaw / LHAAP 0610-T014

Start Date/Time: 10/13/06 1100

End Date/Time: 11/10/06 1100

Sur

Jar Random #	Pre-test Org. wt. (gm)	Pre-test No. Worms	Pre-test Avg. per Organism (gm)	Post-test Org. wt. (gm)	Post-test No. Worms	Post-test Avg. per Organism (gm)
con	3.983	30				
01	4.601	30				
02	3.411	30				
03	4.182	30				
04	3.795	30				
05	3.544	30				
06	4.978	30				
07	4.787	30				
08	5.044	30				
09	4.614	30				
10	3.675	30				
con	4.842	30				
01	4.357	30				
02	5.566	30				
03	5.574	30				
04	5853	30				
05	5.870	30				
06	5.776	30				
07	5.110	30				
08	5.383	30				
09	5.194	30				
10	5.190	30				
	PAN PAN		~~SEDIMENT~~ SOIL			DRY ~~SEDIMENT~~ SOIL
CON	1.37523		25.01697			17.74186
1	1.37784		25.03013			18.30398
2	1.40273		25.07431			22.54444
3	1.38213		25.04403			21.38151
4	1.38892		25.01263			21.35923
5	1.26424		25.02908			22.65483
6	1.40739		25.00312			20.76543
7	1.45159		25.05311			21.45732
8	1.50124		25.05507			19.93981
9	1.45402		25.02651			21.14618
10	1.34883		25.04170			22.40059

Tissue Dry weight Jars

Day 14

Soil Weights

Pre-test Tech Initials: JH

Weigh Date: 10/26/06

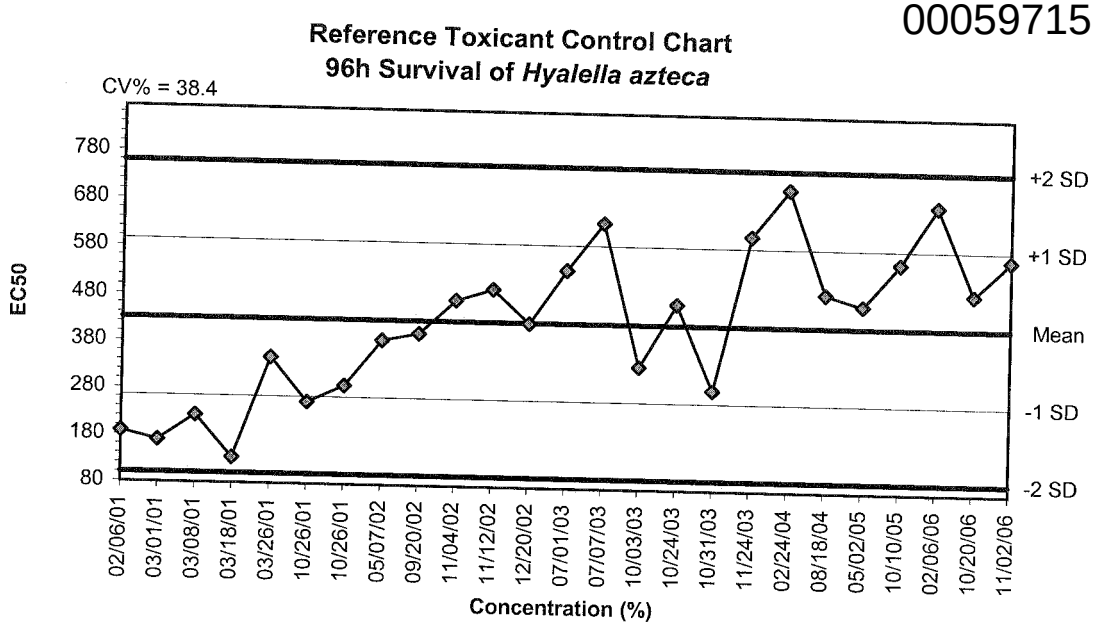
QA KB

Post-test Tech Initials: CT

Weigh Date: 10/29/06

ATTACHMENT C – Reference Toxicant Tests

Attachment C-1
Hyalella azteca



Dates	Values	Mean	-1 SD	-2 SD	+1 SD	+2 SD
02/06/01	187.9825	429.9075	264.9918	100.0760	594.8233	759.7391
03/01/01	169.3743	429.9075	264.9918	100.0760	594.8233	759.7391
03/08/01	222.8646	429.9075	264.9918	100.0760	594.8233	759.7391
03/18/01	132.8283	429.9075	264.9918	100.0760	594.8233	759.7391
03/26/01	347.4598	429.9075	264.9918	100.0760	594.8233	759.7391
10/26/01	253.1055	429.9075	264.9918	100.0760	594.8233	759.7391
10/26/01	289.4106	429.9075	264.9918	100.0760	594.8233	759.7391
05/07/02	387.5000	429.9075	264.9918	100.0760	594.8233	759.7391
09/20/02	402.7778	429.9075	264.9918	100.0760	594.8233	759.7391
11/04/02	475.2931	429.9075	264.9918	100.0760	594.8233	759.7391
11/12/02	500.0000	429.9075	264.9918	100.0760	594.8233	759.7391
12/20/02	428.5714	429.9075	264.9918	100.0760	594.8233	759.7391
07/01/03	542.4136	429.9075	264.9918	100.0760	594.8233	759.7391
07/07/03	643.2100	429.9075	264.9918	100.0760	594.8233	759.7391
10/03/03	341.2267	429.9075	264.9918	100.0760	594.8233	759.7391
10/24/03	475.0896	429.9075	264.9918	100.0760	594.8233	759.7391
10/31/03	292.7254	429.9075	264.9918	100.0760	594.8233	759.7391
11/24/03	620.2026	429.9075	264.9918	100.0760	594.8233	759.7391
02/24/04	720.4711	429.9075	264.9918	100.0760	594.8233	759.7391
08/18/04	501.1497	429.9075	264.9918	100.0760	594.8233	759.7391
05/02/05	477.3894	429.9075	264.9918	100.0760	594.8233	759.7391
10/10/05	567.4711	429.9075	264.9918	100.0760	594.8233	759.7391
02/06/06	689.1646	429.9075	264.9918	100.0760	594.8233	759.7391
10/20/06	503.4647	429.9075	264.9918	100.0760	594.8233	759.7391
11/02/06	576.5422	429.9075	264.9918	100.0760	594.8233	759.7391

KS

CETIS Test Summary

00059716

Report Date: 21 Dec-06 10:12 PM
Link: 10-2603-2608/RT102006HA

Acute Amphipod Survival Test — **Nautilus Environmental WA**

Test No:	14-4915-2219	**Test Type:**	Survival	**Duration:**	96h
Start Date:	20 Oct-06 02:50 PM	**Protocol:**	ASTM E1706-00 (2000)	**Species:**	Hyalella azteca
Ending Date:	24 Oct-06 02:50 PM	**Dil Water:**	Mod-Hard Synthetic Water	**Source:**	Aquatic Biosystems, CO
Setup Date:	20 Oct-06 02:50 PM	**Brine:**			

Sample No:	07-3888-1020	**Material:**	Copper chloride	**Client:**	Reference Toxicant Test
Sample Date:	20 Oct-06	**Code:**	RT102006HA	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	15h	**Station:**			

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
05-1924-5921	Proportion Survived	50	503.46470	435.38080	582.19540	Trimmed Spearman-Karber

Proportion Survived Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
187.5		4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
375		4	0.65000	0.40000	0.80000	0.09574	0.19149	29.46%
750		4	0.25000	0.00000	0.40000	0.09574	0.19149	76.59%
1500		4	0.02500	0.00000	0.10000	0.02500	0.05000	200.00
3000		4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00%

Proportion Survived Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1.00000	1.00000	1.00000	1.00000
187.5		1.00000	1.00000	1.00000	1.00000
375		0.80000	0.80000	0.60000	0.40000
750		0.40000	0.40000	0.20000	0.00000
1500		0.00000	0.10000	0.00000	0.00000
3000		0.00000	0.00000	0.00000	0.00000

Spearman-Karber: 00059717
Report Date: 21 Dec-06 10:12 PM
Analysis: 05-1924-5921/RT102006HA

CETIS Analysis Detail

Acute Amphipod Survival Test — **Nautilus Environmental WA**

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
Proportion Survived	Trimmed Spearman-Karber	10-2603-2608	10-2603-2608	21 Dec-06 10:12 PM	CETISv1.025

Spearman-Karber Options

Threshold Option	Lower Threshold	Trim Level	Mu	Sigma
Control Threshold	0	0.00%	2.701969	0.03154986

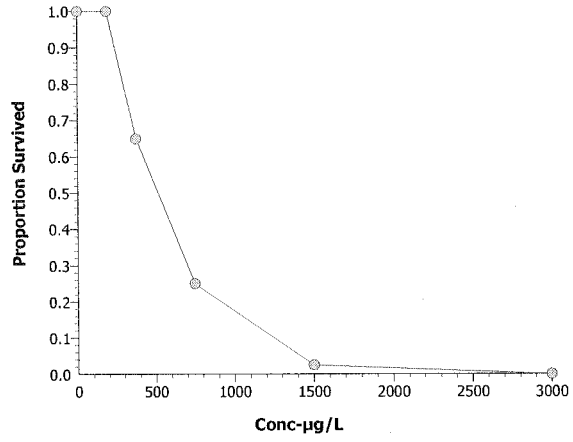
Point Estimates

EC50/LC50	95% LCL	95% UCL
503.46470	435.38080	582.19540

Data Summary

			Calculated Variate(A/B)						
Conc-µg/L	Control Type	Count	Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	4	1.00000	1.00000	1.00000	0.00000	0.00000	40	40
187.5		4	1.00000	1.00000	1.00000	0.00000	0.00000	40	40
375		4	0.65000	0.40000	0.80000	0.03909	0.19149	26	40
750		4	0.25000	0.00000	0.40000	0.03909	0.19149	10	40
1500		4	0.02500	0.00000	0.10000	0.01021	0.05000	1	40
3000		4	0.00000	0.00000	0.00000	0.00000	0.00000	0	40

Graphics



96 Hour Reference Toxicity Test Data Sheet - Nautilus Environmental

Freshwater Sediment 96-hr Chronic

Client: Reference Toxicant
Sample ID: g/L $CuCl_2$
Test #: RT 102006 HA

Start Date & Time: 10/20/06 1450
End Date & Time: 10/24/06 1450
Test Organism: *H. azteca*

Conc. $CuCl_2$	Cont. #	Survival 0	Survival 96	Dissolved O_2 (mg/L) 0	24	48	72	96	pH (units) 0	24	48	72	96	Cond. µS/cm 0	24	48	72	96	Temperature (°C) 0	24	48	72	96
0 ug/L	8	10	10	8.4	8.3	7.9	7.8	7.6	8.12	7.87	7.94	7.80	7.83	291	301	310	305	313	22.5	22.7	22.5	22.7	22.7
	20	10	10																				
	16	10	10																				
	9	10	10																				
187.5	18	10	10	8.3	8.1	8.0	7.5	7.1	8.05	7.73	7.89	7.78	7.84	286	299	301	304	313	22.5	22.6	22.1	22.5	22.1
	21	10	10																				
	4	10	10																				
	13	10	10																				
375	7	10	8	8.3	8.1	7.9	7.6	7.5	7.98	7.72	7.87	7.82	7.84	286	297	297	298	304	22.5	22.7	22.3	22.6	22.7
	17	10	8																				
	1	10	6																				
	22	10	4																				
750	23	10	4	8.2	8.2	8.0	7.7	7.5	7.87	7.70	7.85	7.82	7.83	285	295	295	298	306	22.5	22.7	22.2	22.5	22.6
	5	10	4																				
	11	10	2																				
	3	10	0																				
1500	12	10	0	8.2	8.2	8.0	7.8	7.2	7.65	7.70	7.87	7.85	7.84	286	298	300	304	313	22.5	22.6	22.1	22.4	22.5
	19	10	1																				
	24	10	0																				
	6	10	0																				
3000	15	10	0	8.2	8.2	8.1	7.7	7.5	7.37	7.58	7.91	7.79	7.78	285	297	298	302	311	22.5	22.8	22.2	22.5	22.4
	10	10	0																				
	14	10	0																				
	2	10	0																				
Tech Initials				LeS	AH	AH	CP	LeS															

Animal Source: ABS
Date Received: 10/17/06
Age at test initiation: 12-14 day

Comments: _____

00059718

00059719

CETIS Test Summary

Report Date: 27 Dec-06 10:08 PM
Link: 04-1292-4263/RT110206HA

Acute Amphipod Survival Test — **Nautilus Environmental WA**

Test No:	11-1365-9851	**Test Type:**	Survival	**Duration:**	96h
Start Date:	02 Nov-06 03:45 PM	**Protocol:**	ASTM E1706-00 (2000)	**Species:**	Hyalella azteca
Ending Date:	06 Nov-06 03:30 PM	**Dil Water:**	Mod-Hard Synthetic Water	**Source:**	Aquatic Biosystems, CO
Setup Date:	02 Nov-06 03:45 PM	**Brine:**			

Sample No:	11-0783-6001	**Material:**	Copper chloride	**Client:**	Reference Toxicant Test
Sample Date:	02 Nov-06	**Code:**	RT110206HA	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	16h	**Station:**			

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-µg/L	95% LCL	95% UCL	Method
07-3082-5987	Proportion Survived	50	576.54220	468.16130	710.01370	Trimmed Spearman-Karber

Proportion Survived Summary

Conc-µg/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	0.90000	0.80000	1.00000	0.04082	0.08165	9.07%
187.5		4	0.65000	0.50000	0.80000	0.06455	0.12910	19.86%
375		4	0.65000	0.50000	0.90000	0.09574	0.19149	29.46%
750		4	0.32500	0.20000	0.40000	0.04787	0.09574	29.46%
1500		4	0.05000	0.00000	0.10000	0.02887	0.05774	115.47
3000		4	0.07500	0.00000	0.20000	0.04787	0.09574	127.66

Proportion Survived Detail

Conc-µg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	0.90000	0.90000	1.00000	0.80000
187.5		0.80000	0.70000	0.50000	0.60000
375		0.70000	0.90000	0.50000	0.50000
750		0.40000	0.30000	0.40000	0.20000
1500		0.10000	0.00000	0.10000	0.00000
3000		0.10000	0.00000	0.00000	0.20000

CETIS Analysis Detail

Spearman-Karber: 00059720
Report Date: 21 Dec-06 10:08 PM
Analysis: 07-3082-5987/RT110206HA

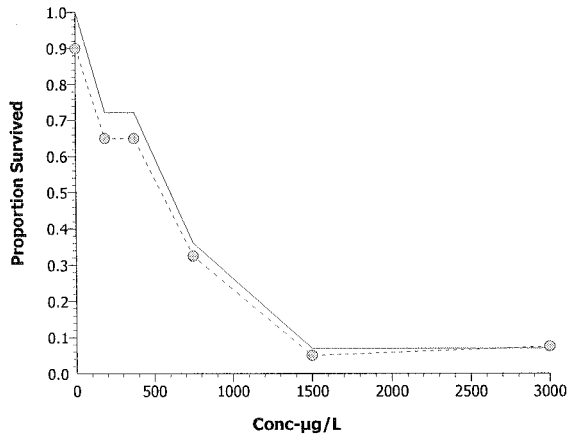
Acute Amphipod Survival Test					Nautilus Environmental WA
Endpoint	**Analysis Type**	**Sample Link**	**Control Link**	**Date Analyzed**	**Version**
Proportion Survived	Trimmed Spearman-Karber	04-1292-4263	04-1292-4263	21 Dec-06 10:08 PM	CETISv1.025

Spearman-Karber Options					Point Estimates		
Threshold Option	**Lower Threshold**	**Trim Level**	**Mu**	**Sigma**	**EC50/LC50**	**95% LCL**	**95% UCL**
Control Threshold	0.1	27.78%	2.760831	0.04521781	576.54220	468.16130	710.01370

Data Summary

			Calculated Variate(A/B)						
Conc-µg/L	**Control Type**	**Count**	**Mean**	**Minimum**	**Maximum**	**SE**	**SD**	**A**	**B**
0	Dilution Water	4	0.90000	0.80000	1.00000	0.01667	0.08165	36	40
187.5		4	0.65000	0.50000	0.80000	0.02635	0.12910	26	40
375		4	0.65000	0.50000	0.90000	0.03909	0.19149	26	40
750		4	0.32500	0.20000	0.40000	0.01954	0.09574	13	40
1500		4	0.05000	0.00000	0.10000	0.01179	0.05774	2	40
3000		4	0.07500	0.00000	0.20000	0.01954	0.09574	3	40

Graphics



96 Hour Reference Toxicity Test Data Sheet - Nautilus Environmental

Freshwater Sediment 96-hr Chronic

Client: Reference Toxicant
Sample ID: CuCl2
Test #: RT110206HA

Start Date & Time: 11/2/06 1545
End Date & Time: 11/6/06 1530
Test Organism: *H. azteca*

Conc. $CuCl_2$	Cont. #	Survival 0	Survival 96	Dissolved O_2 (mg/L) 0	24	48	72	96	pH (units) 0	24	48	72	96	Cond. µS/cm 0	24	48	72	96	Temperature (°C) 0	24	48	72	96
0 ug/L	22	10	9	8.1	7.8	7.9	7.6	7.8	7.88	7.95	7.93	7.98	7.81	309	334	335	315	324	22.7	22.7	22.8	22.3	22.8
	9	10	9																				
	14	10	10																				
	1	10	8																				
187.5	7	10	8	8.1	8.0	8.0	7.6	7.7	7.76	7.87	7.91	7.91	7.84	312	332	331	319	325	22.7	22.7	22.8	22.2	22.8
	19	10	7																				
	2	10	5																				
	6	10	6																				
375	20	10	7	8.2	8.0	7.9	7.7	7.7	7.79	7.89	7.90	7.89	7.88	313	337	340	319	321	22.8	22.8	22.8	22.2	22.8
	11	10	9																				
	12	10	5																				
	13	10	5																				
750	8	10	4	8.1	8.0	7.8	7.6	7.8	7.66	7.84	7.86	7.83	7.84	314	334	325	327	321	22.8	22.8	22.7	22.3	22.7
	4	10	3																				
	16	10	4																				
	23	10	2																				
1500	15	10	1	8.1	8.0	7.8	7.5	7.6	7.49	7.78	7.81	7.77	7.81	314	338	339	323	324	22.7	22.7	22.9	22.3	22.6
	24	10	0																				
	5	10	1																				
	10	10	0																				
3000	18	10	1	8.2	8.1	7.9	7.6	7.7	7.30	7.70	7.75	7.72	7.78	314	334	337	325	325	22.7	22.8	22.9	22.3	22.8
	21	10	0																				
	3	10	0																				
	17	10	2																				
Tech Initials				CT	CT	CT	CT	CT															

Animal Source: ABS
Date Received: 10/28/06
Age at test initiation: _____

Comments: _____

00059721

Attachment C-2

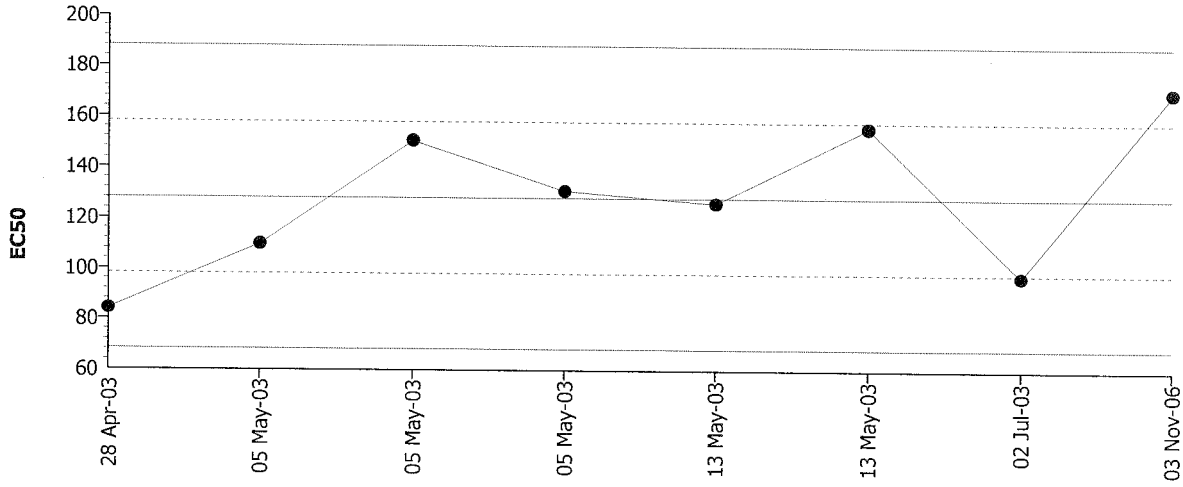
Lumbriculus variegatus

CETIS QC Chart

Report Date: 21 Dec-06 9:13 PM

96-Hour Acute Lumbriculus Survival Test — **Nautilus Environmental WA**

Test Type: Survival (96h) **Organism:** Lumbriculus variegatus (FW Oligoch **Material:** Copper chloride
Protocol: EPA/600/R-99/064 (2000) **Endpoint:** 96h Proportion Survived **Source:** Reference Toxicant-REF



Mean: 128.131 **Count:** 8 **-1s Warning Limit:** 98.1466 **-2s Action Limit:** 68.1626
Sigma: 29.9840 **CV:** 23.40% **+1s Warning Limit:** 158.115 **+2s Action Limit:** 188.099

Quality Control Data

Point	Year	Month	Day	Data	Delta	Sigma	Warning	Action	Link	Analysis
1	2003	Apr	28	84.08965	-44.0409	-1.46881	(-)		06-9237-5469	13-9775-8396
2		May	5	109.8064	-18.3241	-0.61113			09-1313-5671	15-6370-0765
3			5	150.6856	22.55501	0.75223			08-3523-4292	14-5929-7647
4			5	130.9268	2.79621	0.09326			01-1706-5450	09-0018-6693
5			13	126.1345	-1.99609	-0.06657			06-1882-3926	03-9552-9302
6			13	155.8889	27.75831	0.92577			04-4688-9037	10-4471-7113
7		Jul	2	97.26297	-30.8676	-1.02947	(-)		15-8641-1110	04-9866-1118
8	2006	Nov	3	170.2500	42.11941	1.40473	(+)		12-2023-1990	05-1217-9381

CETIS Test Summary

00059724

Report Date: 21 Dec-06 9:13 PM
Link: 12-2023-1990/RT110306LV

96-Hour Acute Lumbriculus Survival Test

Nautilus Environmental WA

Test No:	09-9173-9628	**Test Type:**	Survival (96h)	**Duration:**	4d 0h
Start Date:	03 Nov-06 01:00 PM	**Protocol:**	EPA/600/R-99/064 (2000)	**Species:**	Lumbriculus variegatus
Ending Date:	07 Nov-06 01:15 PM	**Dil Water:**		**Source:**	
Setup Date:	03 Nov-06 01:00 PM	**Brine:**			

Sample No:	17-1994-8276	**Material:**	Copper chloride	**Client:**	
Sample Date:	21 Nov-06 09:58 AM	**Code:**	RT110306LV	**Project:**	
Receive Date:		**Source:**	Reference Toxicant		
Sample Age:	N/A	**Station:**			

Comparison Summary

Analysis	Endpoint	NOEL	LOEL	ChV	MSDp	Method
05-2096-4682	96h Proportion Survived	75	150	106.066	12.33%	Steel's Many-One Rank

Point Estimate Summary

Analysis	Endpoint	% Effect	Conc-ug/L	95% LCL	95% UCL	Method
05-1217-9381	96h Proportion Survived	50	170.25000	138.76890	208.87290	Trimmed Spearman-Karber

96h Proportion Survived Summary

Conc-ug/L	Control Type	Reps	Mean	Minimum	Maximum	SE	SD	CV
0	Dilution Water	4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
18.75		4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
37.5		4	1.00000	1.00000	1.00000	0.00000	0.00000	0.00%
75		4	0.90000	0.80000	1.00000	0.04082	0.08165	9.07%
150		4	0.57500	0.50000	0.70000	0.04787	0.09574	16.65%
300		4	0.20000	0.00000	0.40000	0.09129	0.18257	91.29%

96h Proportion Survived Detail

Conc-ug/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1.00000	1.00000	1.00000	1.00000
18.75		1.00000	1.00000	1.00000	1.00000
37.5		1.00000	1.00000	1.00000	1.00000
75		0.80000	0.90000	1.00000	0.90000
150		0.60000	0.70000	0.50000	0.50000
300		0.10000	0.30000	0.00000	0.40000

CETIS Analysis Detail

Comparisons: 00059725
Report Date: 21 Dec-06 9:13 PM
Analysis: 05-2096-4682/RT110306LV

96-Hour Acute Lumbriculus Survival Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
96h Proportion Survived	Comparison	12-2023-1990	12-2023-1990	21 Nov-06 10:01 AM	CETISv1.025

Method	Alt H	Data Transform	Z
Steel's Many-One Rank	C > T	Angular (Corrected)	

NOEL	LOEL	Toxic Units	ChV	MSDp
75	150	1.33	106.066	12.33%

ANOVA Assumptions

Attribute	Test	Statistic	Critical	P Level	Decision(0.01)
Variances	Modified Levene	8.35288	4.24788	0.00031	Unequal Variances
Distribution	Shapiro-Wilk W	0.85478	0.88421	0.00232	Non-normal Distribution

ANOVA Table

Source	Sum of Squares	Mean Square	DF	F Statistic	P Level	Decision(0.05)
Between	3.228753	0.6457506	5	46.87	0.00000	Significant Effect
Error	0.2479771	0.0137765	18			
Total	3.47673015	0.6595271	23			

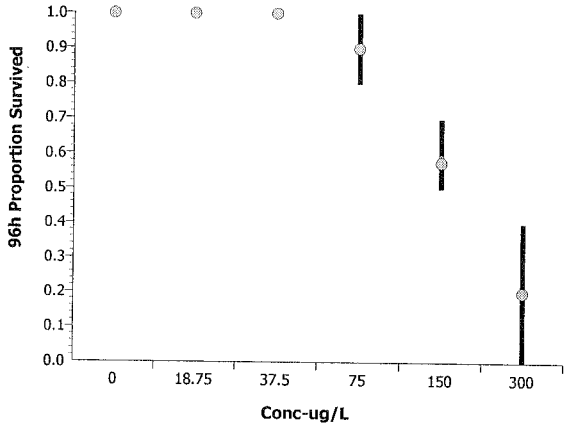
Group Comparisons

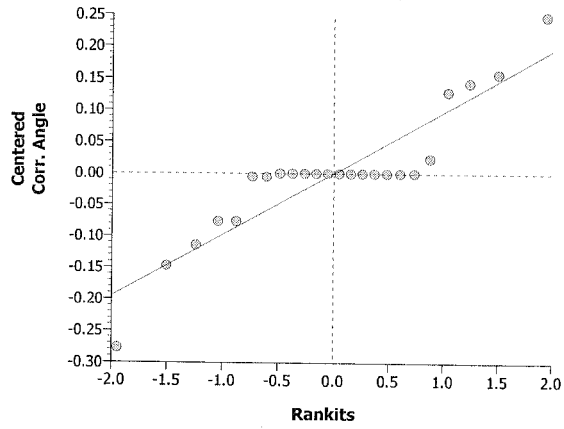
Control	vs	Conc-ug/L	Statistic	Critical	P Level	Ties	Decision(0.05)
Dilution Water		18.75	18	10	> 0.0500	1	Non-Significant Effect
		37.5	18	10	> 0.0500	1	Non-Significant Effect
		75	12	10	> 0.0500	2	Non-Significant Effect
		150	10	10	<= 0.0500	2	Significant Effect
		300	10	10	<= 0.0500	1	Significant Effect

Data Summary

			Original Data				Transformed Data			
Conc-ug/L	Control Type	Count	Mean	Minimum	Maximum	SD	Mean	Minimum	Maximum	SD
0	Dilution Water	4	1.00000	1.00000	1.00000	0.00000	1.41202	1.41202	1.41202	0.00027
18.75		4	1.00000	1.00000	1.00000	0.00000	1.41202	1.41202	1.41202	0.00027
37.5		4	1.00000	1.00000	1.00000	0.00000	1.41202	1.41202	1.41202	0.00027
75		4	0.90000	0.80000	1.00000	0.08165	1.25431	1.10715	1.41202	0.12461
150		4	0.57500	0.50000	0.70000	0.09574	0.86201	0.78540	0.99116	0.09831
300		4	0.20000	0.00000	0.40000	0.18257	0.43622	0.15878	0.68472	0.23972

Graphics





CETIS Analysis Detail

Spearman-Karber: 00059726
Report Date: 21 Dec-06 9:13 PM
Analysis: 05-1217-9381/RT110306LV

96-Hour Acute Lumbriculus Survival Test — Nautilus Environmental WA

Endpoint	Analysis Type	Sample Link	Control Link	Date Analyzed	Version
96h Proportion Survived	Trimmed Spearman-Karber	12-2023-1990	12-2023-1990	21 Nov-06 10:01 AM	CETISv1.025

Spearman-Karber Options

Threshold Option	Lower Threshold	Trim Level	Mu	Sigma
Control Threshold	0	20.00%	2.231087	0.04439748

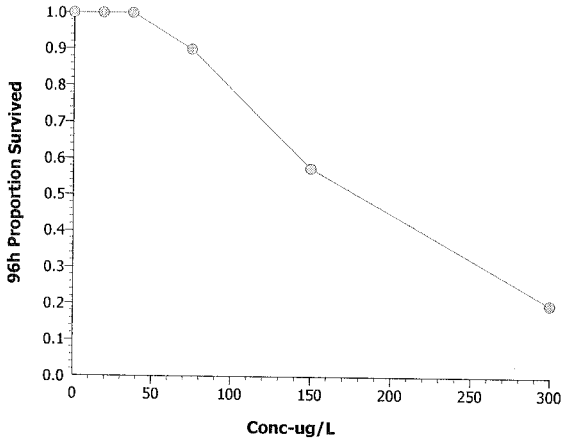
Point Estimates

EC50/LC50	95% LCL	95% UCL
170.25000	138.76890	208.87290

Data Summary

Conc-ug/L	Control Type	Count	Calculated Variate(A/B) Mean	Minimum	Maximum	SE	SD	A	B
0	Dilution Water	4	1.00000	1.00000	1.00000	0.00000	0.00000	40	40
18.75		4	1.00000	1.00000	1.00000	0.00000	0.00000	40	40
37.5		4	1.00000	1.00000	1.00000	0.00000	0.00000	40	40
75		4	0.90000	0.80000	1.00000	0.01667	0.08165	36	40
150		4	0.57500	0.50000	0.70000	0.01954	0.09574	23	40
300		4	0.20000	0.00000	0.40000	0.03727	0.18257	8	40

Graphics



96 Hour Reference Toxicity Data Sheet - Nautilus Environmental

Freshwater Sediment 96-hr

Client: Reference Toxicant
Sample ID: 300ug/L CuCl2
Test #: RT110306LV

Start Date & Time: 11/3/06 1300
End Date & Time: 11/7/06 1315
Test Organism: *Lumbriculus variegatus*

conc. CuCl	Cont. #	Survival 0	Survival 96	Dissolved O_2 (mg/L) 0	24	48	72	96	pH (units) 0	24	48	72	96	Cond. µS/cm 0	24	48	72	96	Temperature (°C) 0	24	48	72	96
control	5	10	10	7.8	8.0	7.7	7.9	7.5	8.12	8.05	7.97	7.92	7.95	309	312	307	322	319	22.0	22.3	22.1	22.9	22.3
	14	10	10																				
	17	10	10																				
	11	10	10																				
18.75	19	10	10	7.9	7.9	7.6	7.7	7.6	8.13	8.04	7.98	7.97	8.00	311	313	312	324	316	22.0	22.4	22.2	22.8	22.5
	12	10	10																				
	9	10	10																				
	6	10	10																				
37.5	16	10	10	7.8	7.8	7.6	7.9	7.6	8.13	8.04	7.98	7.99	8.01	311	311	308	324	317	22.0	22.2	22.2	~~22.4~~ 22.8	22.6
	4	10	10																				
	20	10	10																				
	23	10	10																				
75	22	10	8	8.0	7.9	7.7	8.0	7.5	8.11	8.06	7.97	8.00	8.01	310	310	311	322	318	22.0	22.3	22.3	22.9	22.6
	1	10	9																				
	13	10	10																				
	2	10	9																				
150	10	10	6	7.9	7.8	7.6	7.9	7.5	8.08	8.03	7.97	8.01	8.01	310	311	309	324	317	22.0	22.3	22.2	22.9	22.5
	21	10	7																				
	18	10	5																				
	15	10	5																				
300	3	10	1	7.9	7.8	7.6	8.0	7.3	8.03	8.01	7.95	8.02	7.96	310	309	308	331	316	22.0	22.3	22.3	22.8	22.6
	7	10	3																				
	8	10	0																				
	24	10	4																				
	Tech.	MV	RT																				

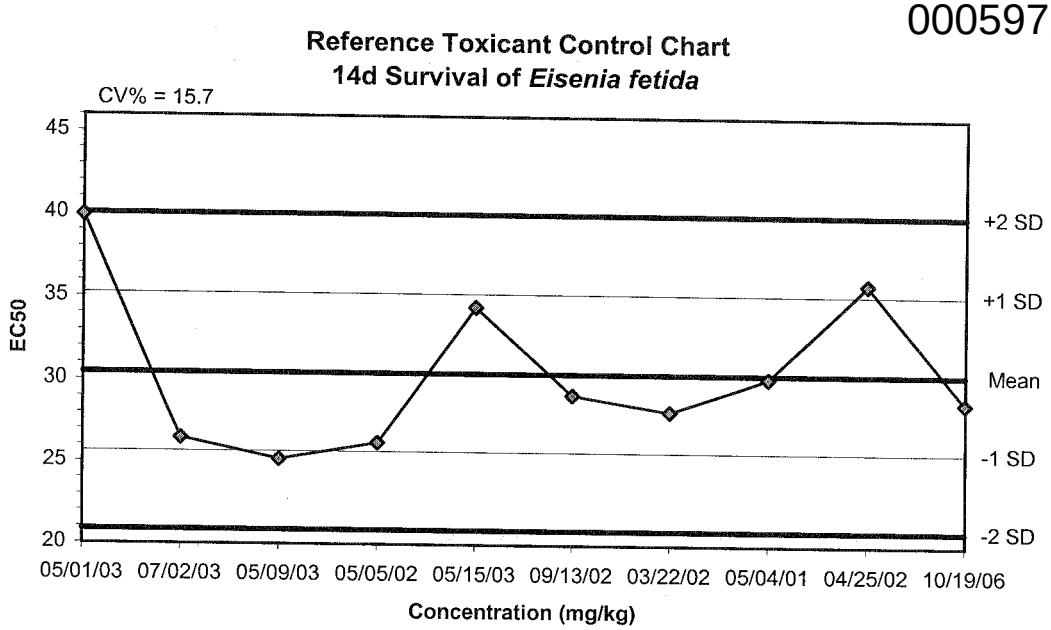
Comments: _____

Analysts: MV, RT

00059727

Attachment C-3

Eisenia fetida



Dates	Values	Mean	-1 SD	-2 SD	+1 SD	+2 SD
05/01/03	39.9054	30.4353	25.6419	20.8485	35.2286	40.0220
07/02/03	26.4486	30.4353	25.6419	20.8485	35.2286	40.0220
05/09/03	25.1643	30.4353	25.6419	20.8485	35.2286	40.0220
05/05/02	26.1707	30.4353	25.6419	20.8485	35.2286	40.0220
05/15/03	34.4320	30.4353	25.6419	20.8485	35.2286	40.0220
09/13/02	29.1775	30.4353	25.6419	20.8485	35.2286	40.0220
03/22/02	28.1836	30.4353	25.6419	20.8485	35.2286	40.0220
05/04/01	30.2262	30.4353	25.6419	20.8485	35.2286	40.0220
04/25/02	35.8894	30.4353	25.6419	20.8485	35.2286	40.0220
10/19/06	28.7549	30.4353	25.6419	20.8485	35.2286	40.0220

-14-day

00059730

Start Date:	10/19/06	Test ID:	RT101906EF	Sample ID:	REF-REFERENCE TOXICANT
End Date:	11/2/06	Lab ID:	NENW-Nautilus Environment	Sample Type:	-2-CHLOROACETAMIDE
Sample Date:		Protocol:	ASTM E1676	Test Species:	EF-Eisenia fetida
Comments:					

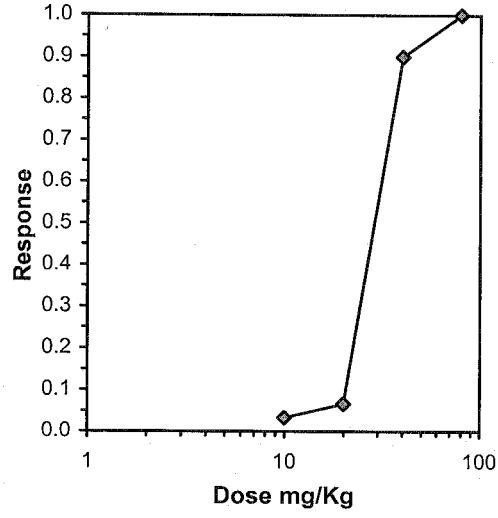
Conc-mg/Kg	1	2	3
S-Control	1.0000	1.0000	1.0000
10	1.0000	1.0000	0.9000
20	0.9000	0.9000	1.0000
40	0.0000	0.3000	0.0000
80	0.0000	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/Kg	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
S-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	3	0	30
10	0.9667	0.9667	1.3577	1.2490	1.4120	6.930	3	1	30
20	0.9333	0.9333	1.3034	1.2490	1.4120	7.219	3	2	30
40	0.1000	0.1000	0.2991	0.1588	0.5796	81.247	3	27	30
80	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	3	30	30

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90972	0.805	1.09632	1.86229
Equality of variance cannot be confirmed				

Trimmed Spearman-Karber

Trim Level	EC50	95% CL	
0.0%			
5.0%	28.834	26.189	31.746
10.0%	28.679	27.016	30.444
20.0%	28.679	27.016	30.444
Auto-3.3%	28.755	25.883	31.946



ToxCalc v5.0.23

Reviewed by: KB

Environmental Quality Results - 14-Day Soil Reftox
Nautilus Environmental

Test# RT101906EF

Client/ Project ID: Reference Toxicant

Site ID: ~~80 mg/L~~ 2-Chloroacetamide 80 mg/kg

Organism Tested: Eisenia fetida

Start Date/Time: 10/19/06 #1600

End Date/Time: 11/02/06 1600

Test Day	Temp (°C)	Tech Initials
0	20.9	LES
1	21.0	LES
2	21.0	SM
3	21.0	SM
4	21.0	LES
5	21.1	LES
6	21.0	LES
7	21.0	LES
8	21.0	LES
9	21.0	LES
10	21.0	MM
11	21.1	LES
12	21.1	LES
13	21.2	LES
14	21.0	SM

Conc. mg/kg	Rep.	Container	% Moisture initial	% Moisture final	pH (units) initial	pH (units) final	Conductivity (uhom-cm) initial	Conductivity (uhom-cm) final	Survival initial	Survival final
CON	1	7	20%	24	7.23	6.65	279	~~353~~ MM 375 ~~422~~	10	10
	2	3							10	10
	3	1						2	10	10
10 mg/kg	1	14	20%	22	7.23	6.58	279	~~488~~	10	10
	2	11						MM 465	10	10
	3	5							10	9
20mg/kg	1	15	20%	24	7.23	6.68	279	290	10	9
	2	9							10	9
	3	2							10	10
40mg/kg	1	6	20%	24	7.23	6.72	279	318	10	0
	2	12							10	3
	3	8							10	0
80mg/kg	1	13	20%	27	7.23	6.75	279	284	10	0
	2	10							10	0
	3	4							10	0

QA Review/Date: MM 11/3/06

Final Review/Date: _____

00059731

Soil Weights

Site	Pan weight g	Initial (wet) g	Final (dry) g	MF
CON	1.42529	25.0g	21.5378	
10	1.30550	25.0	21.6683	
20	1.35780	25.0	21.5411	
40	1.36850	25.0	21.5158	
80	1.57311	25.0	21.2557	

MF= (I-F)/[A-(I-F)]*100

MF= Moisture fraction of bulk soil (in %)
I= Initial wet weight of sample + crucible (in grams)
F=Final dry weight of sample + crucible (in grams)
A= Initial aliquot weight (in grams)

pH/ Conductivity

Site	pH (5 min)	Cond (5min)	pH (30 min)	Cond (30 min)

To measure pH/Conductivity make a slurry of soil and DI in a 1:1 ratio. Put on stir plate for 5 minutes and record reading. Allow slurry to settle for 30 minutes and record reading

Nautilus Environmental
Soil Hydration Calculation Day 14

Soil Weights

Site	Pan wt.	Initial (wet)	Initial minus Pan wt	Final (dry)	Final minus Pan wt.	% Hydration
con	1.42529		25	21.5378	20.11251	24.30074615
10	1.3055		25	21.6683	20.3628	22.7728996
20	1.3578		25	21.5158	20.158	24.0202401
40	1.3685		25	21.5158	20.1473	24.08610583
80	1.57311		25	21.2557	19.68259	27.01580432

ATTACHMENT D – Chain-of-Custody Forms

Attachment D-1
Sediment Sample Transport

Nautilus Environmental

Chain of Custody

☐ **CALIFORNIA**
5550 Morehouse Drive • Suite 150
San Diego, California 92121
Phone 858.587.7333
Fax 858.587.3961

☒ **WASHINGTON**
5009 Pacific Highway East • Suite 2
Tacoma, Washington 98424
Phone 253.922.4296
Fax 253.922.5814

☐ **BRITISH COLUMBIA**
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Date Oct 4, 2006 Page 1 of 2

Sample Collection by: M.Weisberg, J. Lindberg, W. Hudgins

Report to:
Company Shaw E&I
Address 2790 Mosside Blvd
City Monroeville State PA Zip 15146
Contact Mark Weisberg
Phone/Email (412) 858-3996

Invoice to:
Company ~~SHAW~~ E&I
Address 3010 Briarpark 4N
City Houston State TX Zip 77042
Contact Tom Cating
Phone/Email ~~(225) 987-8508~~ (713) 996-4406

ANALYSES REQUIRED

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	SED BIOACCUMULATION LUMBRICULUS	SED TOXICITY 10-d Hyalella	RECEIPT TEMPERATURE (°C)
IWSD-BERA-SD06	10/3/06	9:45 AM	SED	4L	2	06-013	X	X	2.5/2.6
GPWSD#3-BERA-SD07	10/3/06	10:50 AM	SED	4L	2	06-012	X	X	Sample Temp on 10/6/06 2.5
GPWSD#2-BERA-SD11	10/3/06	11:10 AM	SED	4L	2	1 10/6/06, 1 10/7/06 06-017 one on each day	X	X	Sample Temp on 10/7/06 2.7
GRCSD#3-BERA-SD12	10/3/06	12:30 PM	SED	4L	2	1 10/6/06, 1 10/7/06 06-018 one on each day	X	X	
BKGSD04-BERA-REFSD01	10/3/06	2:20 PM	SED	4L	1	No Bioaccum test needed 10/7/06 06-019		X	
50SD05-BERA-SD08	10/3/06	3:05 PM	SED	4L	2	10/7/06 06-020	X	X	
32SD09-BERA-SD05	10/3/06	3:55 PM	SED	4L	2	0660-010	X	X	
CL-GPSS-3-BERA-SD10	10/4/06	12:20 PM	SED	4L	2	06-015	X	X	
BKG-CL-SD12-BERA-REFSD02	10/4/06	8:55 AM	SED	4L	1	No Bioaccum test needed 06-011		X	

PROJECT INFORMATION	SAMPLE RECEIPT	
CLIENT Shaw E&I	TOTAL NO. OF CONTAINERS	20
~~P.O. NO.~~ PROJ. NO. 117591.0003A100	REC'D GOOD CONDITION	Y
SHIPPED VIA: UPS	MATCHES TEST SCHEDULE	Y

SPECIAL INSTRUCTIONS/COMMENTS:
4 coolers total
Do Not initiate tests until Weisberg calls Karen.

RELINQUISHED BY (CLIENT)
(Signature) Mark Weisberg (Time) 8:15 AM
(Printed Name) Mark Weisberg (Date) 10/5/06
(Company) Shaw E&I

RECEIVED BY (COURIER) 3 of 4 coolers
(Signature) (Time)
(Printed Name) Matthew J Lindl (Date) 10/6/06
(Company) Nautilus Environmental

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY) 4 of 4 coolers
(Signature) Eric Tollefson (Time) 1115
(Printed Name) ERIC TOLLEFSON (Date) 10/7/06
Nautilus Environmental Log-in No. SO6-010-SO6-020

00059636

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Nautilus Environmental

Chain of Custody

☐ **CALIFORNIA**
5550 Morehouse Drive • Suite 150
San Diego, California 92121
Phone 858.587.7333
Fax 858.587.3961

☒ **WASHINGTON**
5009 Pacific Highway East • Suite 2
Tacoma, Washington 98424
Phone 253.922.4296
Fax 253.922.5814

☐ **BRITISH COLUMBIA**
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Date Oct 4, 2006 Page 2 of 2

Sample Collection by: M. Weisberg, J. Lindberg, W. Hudgins

Report to:
Company Shaw E&I
Address 2790 Mosside Blvd
City Monroeville State PA Zip 15146
Contact Mark Weisberg
Phone/Email (412) 858-3996

Invoice to:
Company Shaw E&I
Address 3010 BriarPark 4N
City Houston State TX Zip 77042
Contact TOM Catney
Phone/Email (713) 996-4406

ANALYSES REQUIRED

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	SED Bioaccumulation Lumbriculus	SED Toxicity 10-day Hyalella	RECEIPT TEMPERATURE (°C)
√ CL-GP55-2-BERA-SD04	10/4/06	12:45 PM	SED	4L	2	06-014	X	X	
√ CL-GP55-1-BERA-SD03	10/4/06	1:10 PM	SED	4L	2	06-016	X	X	

PROJECT INFORMATION
CLIENT Shaw E&I
P.O. NO. Proj. No. 117591.0003A100
SHIPPED VIA: UPS

SAMPLE RECEIPT
TOTAL NO. OF CONTAINERS 20
REC'D GOOD CONDITION Y
MATCHES TEST SCHEDULE Y

SPECIAL INSTRUCTIONS/COMMENTS:
4 coolers total
Do Not initiate tests until Weisberg calls Karen

RELINQUISHED BY (CLIENT)
(Signature) Mark Weisberg 8:14 AM (Time)
(Printed Name) Mark Weisberg 10/5/06 (Date)
(Company) Shaw E&I

RECEIVED BY (COURIER) 3 of 4 coolers
(Signature) (Time)
(Printed Name) Matthew J Liell 10/6/06 (Date)
(Company) Nautilus Environmental

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY) 4 of 4 coolers
(Signature) Eric Tollefson 11:15 (Time)
(Printed Name) ERIC TOLLEFSON DTHG (Date)
Nautilus Environmental Log-in No. (SOG-010)-(SOG-020)

00059737

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

6 Coolers 2 of 2

Chain of Custody

Nautilus Environmental

☐ **CALIFORNIA**
5550 Morehouse Drive • Suite 150
San Diego, California 92121
Phone 858.587.7333
Fax 858.587.3961

☒ **WASHINGTON**
5009 Pacific Highway East • Suite 2
Tacoma, Washington 98424
Phone 253.922.4296
Fax 253.922.5814

☐ **BRITISH COLUMBIA**
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Date 10/6/06 Page 1 of 1

Sample Collection by: J. Lindberg, W. Hudgins

Report to:
Company Shaw E&I
Address 2790 Mosside Blvd
City Monroeville, State PA Zip 15146
Contact Mark Weisberg
Phone/Email (412) 858-3996

Invoice to:
Company Shaw E&I
Address 3010 Briarpark 4N
City Houston State TX Zip 77042
Contact Tom Cating
Phone/Email (713) 996-4406

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Sediment Bioaccumulation Lumbriculus	ANALYSES REQUIRED: Sed Toxicity 10-day Hyalella	RECEIPT TEMPERATURE (°C)
CL-GPSN-4-BERA-SD01	10/6	8:45 am	Sed	4L	2	Login#506-021	X	X	3.1
CL-GPSN-3-BERA-SD02	10/6	9:00 am	Sed	4L	2	Login#506-022	X	X	3.1
CL-GPSN-2-BERA-SD09	10/6	9:15 am	Sed	4L	2	Login#506-023	X	X	3.1

PROJECT INFORMATION
CLIENT Shaw E&I
~~P.O. NO.~~ Proj.# 117591.0003A100
SHIPPED VIA:

SAMPLE RECEIPT
TOTAL NO. OF CONTAINERS 6
REC'D GOOD CONDITION Y
MATCHES TEST SCHEDULE Y

SPECIAL INSTRUCTIONS/COMMENTS:
Do not initiate tests until M. Weisberg called Karen

RELINQUISHED BY (CLIENT)
(Signature) Jon Lindberg (Time) 1:45 pm
(Printed Name) Jon Lindberg (Date) 10/6/06
(Company) Shaw E&I

RECEIVED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY)
(Signature) Eric Tollefson 11:15 (Time)
(Printed Name) ERIC TOLLEFSON 10/7/06 (Date)
Nautilus Environmental Log-in No. 06-021,022,023

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

0005978

Nautilus Environmental

(6 Coolers) 1 of 2

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Fax 858.587.3961

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Phone 253.922.4296
Fax 253.922.5814

☐ BRITISH COLUMBIA
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Chain of Custody

Date 10/5/06 Page 1 of 1

Sample Collection by: M. Weisberg, J. Lindberg, W. Hudgins

Report to:
Company Shaw E&I
Address 2790 Mosside Blvd
City Monroeville State PA Zip 15146
Contact Mark Weisberg
Phone/Email (412) 858-3996 Mark.weisberg@shawgrp.com

Invoice to:
Company Shaw E&I
Address 3010 Briarpark 4N
City Houston State TX Zip 77042
Contact Tom Carling
Phone/Email (713) 996-4406

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Earthworm Bioaccumulation		RECEIPT TEMPERATURE (°C)
175D07-BERA-SS06	10/5/06	9:55 AM	soil	2 gal bucket	1		X	Log in # 06-024	2.7
175S22-BERA-SS08		10:20 AM					X	06-025	2.5
175B02-BERA-SS09		10:10 AM					X	06-026	2.7
175B04-BERA-SS10		11:00 AM					X	06-027	3.0
N50E25-BERA-SS07		11:15 AM					X	06-028	2.5
25C56-BERA-SS03		1:00 PM					X	06-029	2.6
LH-S24-01-BERA-SS01		1:40 PM					X	06-030	2.6
LH-DL723-01-BERA-SS02		2:05 PM					X	06-031	3.0
LHSMW02-BERA-SS04		2:38 PM					X	06-032	2.5
LHSMW50-BERA-SS05		3:00 PM					X	06-033	2.5

PROJECT INFORMATION		SAMPLE RECEIPT	
CLIENT	Shaw E&I	TOTAL NO. OF CONTAINERS	10
~~P.O. NO.~~ Proj. No.	117591.0003A100	REC'D GOOD CONDITION	Y
SHIPPED VIA:	UPS	MATCHES TEST SCHEDULE	Y

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature) Jon Lindberg	(Time) 1:15 PM	(Signature)	(Time)
(Printed Name) Jon Lindberg	(Date) 10/6/06	(Printed Name)	(Date)
(Company) Shaw E&I		(Company)	
RECEIVED BY (COURIER)		**RECEIVED BY (LABORATORY)**	
(Signature)	(Time)	(Signature) Eric Tollefson	(Time) 11:15
(Printed Name)	(Date)	(Printed Name) ERIC TOLLEFSON	(Date) 10/7/06
(Company)		Nautilus Environmental Log-in No. 06-024 – 06-033	

00059739

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Attachment D-2
Tissue Sample Transport

Nautilus Environmental

TO: STL West Sac
880 Riverside Parkway
West Sacramento, CA 95605
Att: Robert Hrabak

☐ **CALIFORNIA**
5550 Morehouse Drive • Suite 150
San Diego, California 92121
Phone 858.587.7333
Fax 858.587.3961

☑ **WASHINGTON**
5009 Pacific Highway East • Suite 2
Tacoma, Washington 98424
Phone 253.922.4296
Fax 253.922.5814

☐ **BRITISH COLUMBIA**
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Chain of Custody

Date 11/13/06 Page 1 of 2

Sample Collection by: Matt Liebl

Report to:
Company Shaw Environmental
Address 2790 Mosside Blvd
City Monroeville State Penn Zip 15146
Contact Mark Weisberg
Phone/Email Mark.Weisberg@shawgrp.com

Invoice to:
Company Same
Address
City State Zip
Contact
Phone/Email

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Explosive analysis-method 8330	RECEIPT TEMPERATURE (°C)
Control EF	11/11	2300			1	Standard TAT	X	
LH-S24-01-BERA-SS01EF					1		X	
LH-DL723-01-BERA-SS02EF					1		X	
25C56-BERA-SS03EF					1		X	
LHSMW02-BERA-SS04EF					1		X	
LHSMW50-BERA-SS05EF					1		X	
175D07-BERA-SS06EF					1		X	
N50E25-BERA-SS07EF					1		X	
175S22-BERA-SS08EF					1		X	

PROJECT INFORMATION
CLIENT
P.O. NO.
SHIPPED VIA:

SAMPLE RECEIPT
TOTAL NO. OF CONTAINERS
REC'D GOOD CONDITION
MATCHES TEST SCHEDULE

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY (CLIENT)
(Signature) [signature] (Time) 1500
(Printed Name) Matthew J Liebl (Date) 11/13/06
(Company) Nautilus Environmental

RECEIVED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY)
(Signature) (Time)
(Printed Name) (Date)
Nautilus Environmental Log-in No.

0059771

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Nautilus Environmental

Chain of Custody

To: STL West Sac
880 Riverside Parkway
West Sacramento, CA 95605
Attn: Robert Hrabak

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Fax 858.587.3961

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Fax 253.922.5814

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Burnaby, British Columbia, Canada V5A 4N3
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Fax 604.357.1361

Date 11/13/06 **Page** 2 **of** 2

Sample Collection by: Matt Liebl

Report to:
Company Shaw Environmental
Address 2790 Mosside Blvd
City Monroeville State Penn Zip 15146
Contact Mark Weisberg
Phone/Email Mark.Weisberg@shawgrp.com

Invoice to:
Company SAME
Address
City State Zip
Contact
Phone/Email

ANALYSES REQUIRED

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	Explosive analysis - Method 8330	RECEIPT TEMPERATURE (°C)
175B07-BERA-SS09EF	11/11	2300			1	Standard TAT	X	
175B04-BERA-SS10EF	↓	↓			1		X	

PROJECT INFORMATION
CLIENT
P.O. NO.
SHIPPED VIA:

SAMPLE RECEIPT
TOTAL NO. OF CONTAINERS
REC'D GOOD CONDITION
MATCHES TEST SCHEDULE

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY (CLIENT)
(Signature) 1500 (Time)
(Printed Name) Matthew J Liebl 11/13/06 (Date)
(Company) Nautilus Environmental

RECEIVED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY)
(Signature) (Time)
(Printed Name) (Date)
Nautilus Environmental Log-in No.

0005974

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Nautilus Environmental

Chain of Custody

To: STL Burlington
208 South Park Dr, Suite 1
Colchester, VT 05446
Att: Kris Dusablon

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San Diego, California 92121
Phone 858.587.7333
Fax 858.587.3961

☑ **WASHINGTON**
5009 Pacific Highway East • Suite 2
Tacoma, Washington 98424
Phone 253.922.4296
Fax 253.922.5814

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8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Date 11/13/06 **Page** 1 **of** 2

Sample Collection by: Matthew Liebl

Report to:
Company Shaw Environmental
Address 2790 Mosside Blvd
City Monroeville State Penn Zip 15146
Contact Mark Weisberg
Phone/Email Mark.Weisberg@shawgrp.com

Invoice to:
Company SAME
Address
City State Zip
Contact
Phone/Email

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Metals Method 6020	ANALYSES REQUIRED: % Lipids analysis	RECEIPT TEMPERATURE (°C)
Initial Tissue EF	10/31	2300			1		X	X	
control EF	11/1				1		X	X	
LH-S24-01-BERA-SS01EF					1		X	X	
LH-DL723-01-BERA-SS02EF					1		X	X	
25C56-BERA-SS03EF					1		X	X	
LHSMW02-BERA-SS04EF					1		X	X	
LH SMW50-BERA-SS05EF					1		X	X	
175D07-BERA-SS06EF					1		X	X	
N50E25-BERA-SS07EF					1		X	X	

PROJECT INFORMATION	SAMPLE RECEIPT
CLIENT	TOTAL NO. OF CONTAINERS
P.O. NO.	REC'D GOOD CONDITION
SHIPPED VIA:	MATCHES TEST SCHEDULE

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY (CLIENT)	RELINQUISHED BY (COURIER)
(Signature) (Time) 1530	(Signature) (Time)
(Printed Name) Matthew J Liebl (Date) 11/13/06	(Printed Name) (Date)
(Company) Nautilus Environmental	(Company)
RECEIVED BY (COURIER)	**RECEIVED BY (LABORATORY)**
(Signature) (Time)	(Signature) (Time)
(Printed Name) (Date)	(Printed Name) (Date)
(Company)	Nautilus Environmental Log-in No.

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

00059743

Nautilus Environmental

To: STL Burlington
208 South Park Dr, Suite 1
Colchester, VT 05446
Att: Kris Dusablon

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Phone 253.922.4296
Fax 253.922.5814

☐ **BRITISH COLUMBIA**
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Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Chain of Custody

Date 11/13/06 **Page** 2 **of** 2

Sample Collection by: Matthew Liesl

Report to:
Company Shaw Environmental
Address 2790 Mosside Blvd
City Monroeville State Penn Zip 15146
Contact Mark Weisberg
Phone/Email Mark.Weisberg@shawgrp.com

Invoice to:
Company Same
Address
City State Zip
Contact
Phone/Email

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Metals method 6020	ANALYSES REQUIRED: % Lipids analysis	RECEIPT TEMPERATURE (°C)
175522-BERA-5508	EF 11/11	2300			1		X	X	
175B02-BERA-5509	EF	↓			1		X	X	
175B04-BERA-5510	EF	↓			1		X	X	

PROJECT INFORMATION
CLIENT
P.O. NO.
SHIPPED VIA:

SAMPLE RECEIPT
TOTAL NO. OF CONTAINERS
REC'D GOOD CONDITION
MATCHES TEST SCHEDULE

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY (CLIENT)
(Signature) 1530 (Time)
(Printed Name) Matthew J Liesl 11/13/06 (Date)
(Company) Nautilus Environmental

RECEIVED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY)
(Signature) (Time)
(Printed Name) (Date)
Nautilus Environmental Log-in No.

0059744

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Nautilus Environmental

To: STL Burlington
208 South Park Dr, Suite 1
Colchester, VT 05446
Att: Kris Ducablon

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Burnaby, British Columbia, Canada V5A 4N3
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Fax 604.357.1361

Chain of Custody

Date 11/30/06 Page 1 of 2

Sample Collection by: Matthew Liebl

Report to:
Company Shaw Environmental
Address 2790 Mosside Blvd
City Monroeville State PA Zip 15146
Contact Mark Weisberg
Phone/Email Mark.Weisberg@shawgrp.com

Invoice to:
Company SAME
Address
City State Zip
Contact
Phone/Email

ANALYSES REQUIRED

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	metals Method (6020)	(7471A)	RECEIPT TEMPERATURE (°C)
CL-GPSN-2LV	11/29			Plastic	1	3.32 grams Tissue wet weight	✓	✓	
CL-GPSN-3LV						3.86 grams Tissue wet weight	✓	✓	
CL-GPSN-4LV						3.89 grams Tissue wet weight	✓	✓	
CL-GPSS-2LV						3.58 grams Tissue wet weight	✓	✓	
CL-GPSS-3LV						3.89 grams Tissue wet weight	✓	✓	
IWSD06LV						3.24 grams Tissue Wet weight	✓	✓	
GPWSD03LV						4.58 grams Tissue Wet weight	✓	✓	
GPWSD02LV						5.35 grams Tissue Wet weight	✓	✓	
Control LV						3.36 gram Tissue wet weight	✓	✓	

PROJECT INFORMATION
CLIENT
P.O. NO.
SHIPPED VIA:

SAMPLE RECEIPT
TOTAL NO. OF CONTAINERS
REC'D GOOD CONDITION
MATCHES TEST SCHEDULE

SPECIAL INSTRUCTIONS/COMMENTS:
Two week TAT requested

RELINQUISHED BY (CLIENT)
(Signature) (Time) 1330
(Printed Name) Matthew J Liebl (Date) 11/30/06
(Company) Nautilus Environmental

RECEIVED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY)
(Signature) (Time)
(Printed Name) (Date)
Nautilus Environmental Log-in No.

00059745

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Nautilus Environmental

Chain of Custody

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Fax 604.357.1361

Date 11/31/06 **Page** 2 **of** 2

Sample Collection by: Matthew Liebl

Report to:
Company Shaw Environmental
Address 2790 Mosside Blvd
City Monroeville State PA Zip 15146
Contact Mark Weisberg
Phone/Email Mark.Weisberg@shawgrp.com

Invoice to:
Company
Address
City State Zip
Contact
Phone/Email

ANALYSES REQUIRED

SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	COMMENTS	metals Method (6020)	(7471A)	RECEIPT TEMPERATURE (°C)
Initial LV	10/31/06			Plastic	1	15 grams Tissue wetweight		✓	✓	

PROJECT INFORMATION
CLIENT
P.O. NO.
SHIPPED VIA:

SAMPLE RECEIPT
TOTAL NO. OF CONTAINERS
REC'D GOOD CONDITION
MATCHES TEST SCHEDULE

SPECIAL INSTRUCTIONS/COMMENTS:
Two week TAT requested

RELINQUISHED BY (CLIENT)
(Signature) 1330 (Time)
(Printed Name) Matthew J Liebl 11/30/06 (Date)
(Company) Nautilus Environmental

RECEIVED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RELINQUISHED BY (COURIER)
(Signature) (Time)
(Printed Name) (Date)
(Company)

RECEIVED BY (LABORATORY)
(Signature) (Time)
(Printed Name) (Date)
Nautilus Environmental Log-in No.

00059746

Additional costs may be required for sample disposal or storage. Net 30 unless otherwise contracted.

DISTRIBUTION: WHITE - Nautilus Environmental, COLOR - Originator

Appendix O

Food Chain Model Results Using Site-Specific Data (on Compact Disk)

Table O-1
BERA Tier 1 COPCs
EEQs and HIs for the Deer Mouse at the LHAAP Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.58E-09	0.00E+00	1.73E-08	0.00E+00	0.00E+00	9.63E-06	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06	1.00E-06	9.65E+00	1.00E-05	9.65E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.28E-06	0.00E+00	0.00E+00	1.27E-03	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	8.00E-01	1.60E-03	4.00E+00	3.21E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	1.32E-02	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	8.00E-01	1.72E-02	4.00E+00	3.43E-03
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	4.54E-03	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-03	8.00E-01	5.71E-03	4.00E+00	1.14E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.79E-06	0.00E+00	0.00E+00	1.12E-03	0.00E+00	4.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	2.00E-01	5.61E-03	1.00E+00	1.12E-03
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.86E-06	0.00E+00	0.00E+00	1.52E-03	0.00E+00	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	4.58E+00	3.34E-04	9.16E+00	1.67E-04
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.29E-01	0.00E+00	1.37E+01	0.00E+00	0.00E+00	4.04E+01	0.00E+00	7.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E+01	1.93E+00	2.88E+01	1.93E+01	2.88E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.68E-03	0.00E+00	0.00E+00	1.33E-01	0.00E+00	8.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	1.25E-01	1.17E+00	1.25E+00	1.17E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	5.09E-03	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-03	6.85E-02	7.53E-02	6.85E-01	7.53E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.69E-06	0.00E+00	0.00E+00	1.06E-03	0.00E+00	6.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	6.80E-02	1.57E-02	6.80E-01	1.57E-03
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	4.25E-02	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-02	6.80E-02	6.27E-01	6.80E-01	6.27E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	1.34E-02	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-02	6.80E-02	1.97E-01	6.80E-01	1.97E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	7.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03	1.83E+01	3.97E-04	1.83E+02	3.98E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	7.48E-04	0.00E+00	0.00E+00	5.09E-02	0.00E+00	1.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-02	1.00E+00	6.90E-02	1.00E+01	6.90E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.41E-07	0.00E+00	0.00E+00	1.34E-04	0.00E+00	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	4.58E+00	2.95E-05	9.16E+00	1.48E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	3.32E-02	0.00E+00	0.00E+00	1.58E-02	0.00E+00	3.99E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-01	2.74E+03	1.64E-04	2.74E+04	1.64E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	2.24E-04	0.00E+00	5.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-03	3.28E+00	1.94E-03	1.31E+01	4.84E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.31E-07	0.00E+00	0.00E+00	2.49E-04	0.00E+00	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	4.58E+00	5.46E-05	9.16E+00	2.73E-05
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	4.25E-03	0.00E+00	3.47E-02	0.00E+00	0.00E+00	5.66E-01	0.00E+00	2.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-01	1.17E+01	7.60E-02	1.51E+01	5.87E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.10E-07	0.00E+00	0.00E+00	2.33E-04	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	2.00E-02	1.29E-02	2.00E-01	1.29E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	7.05E-07	0.00E+00	0.00E+00	2.69E-04	0.00E+00	6.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	9.20E-02	2.94E-03	9.20E-01	2.94E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	7.11E-03	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-03	4.58E+00	1.56E-03	9.16E+00	7.81E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.91E-07	0.00E+00	0.00E+00	1.52E-04	0.00E+00	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	1.00E-01	1.52E-03	1.00E+00	1.52E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.28E-07	0.00E+00	0.00E+00	1.27E-04	0.00E+00	1.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	8.00E-02	1.60E-03	2.90E-01	4.41E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	9.43E-01	0.00E+00	3.12E+01	0.00E+00	0.00E+00	6.08E+01	0.00E+00	3.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.33E-03	0.00E+00	3.30E-01	0.00E+00	0.00E+00	1.53E-01	0.00E+00	2.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-01	8.00E+00	8.86E-02	8.00E+01	8.86E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	8.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-02	8.80E+01	9.31E-04	2.84E+02	2.88E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.48E-03	0.00E+00	0.00E+00	4.65E-02	NA	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-02	1.32E+01	4.78E-03	3.96E+01	1.59E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	7.00E-01	0.00E+00	7.00E+00	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.65E-02	0.00E+00	0.00E+00	1.95E+00	NA	2.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E+00	4.00E+01	4.97E-02	8.00E+01	2.49E-02
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.66E-01	0.00E+00	2.07E-03	0.00E+00	0.00E+00	5.90E-02	0.00E+00	1.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-01	5.07E+02	6.81E-04	1.13E+03	3.05E-04
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-02	5.07E+02	4.80E-05	1.13E+03	2.16E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.33E-06	0.00E+00	0.00E+00	5.04E-04	0.00E+00	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-04	2.40E-01	2.11E-03	2.40E+00	2.11E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.71E-03	0.00E+00	0.00E+00	1.91E-01	NA	1.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	8.50E+00	1.53E-01	2.55E+01	5.09E-02
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	1.12E-03	0.00E+00	4.87E-03	0.00E+00	0.00E+00	8.71E-02	0.00E+00	6.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-01	2.00E-01	8.05E-01	3.30E-01	4.88E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.92E-02	0.00E+00	0.00E+00	3.42E-01	0.00E+00	4.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-01	2.63E+02	3.12E-03	7.89E+02	1.04E-03
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.27E+00	0.00E+00	3.25E-01	0.00E+00	0.00E+00	9.27E+00	0.00E+00	2.85E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	7.40E-03	6.89E-02	7.40E-02	6.89E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.66E-07	0.00E+00	0.00E+00	2.62E-04	0.00E+00	6.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	4.58E+00	5.75E-05	9.16E+00	2.88E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	4.71E-02	0.00E+00	0.00E+00	1.04E-01	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-01	2.10E-01	7.40E-01	2.10E+00	7.40E-02
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	2.63E-02	0.00E+00	1.41E-01	0.00E+00	0.00E+00	1.70E+00	0.00

Table O-2
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.10E-09	0.00E+00	1.37E-08	0.00E+00	0.00E+00	3.77E-06	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	3.79E-06	1.00E-06	3.79E+00	1.00E-05	3.79E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-06	0.00E+00	0.00E+00	6.25E-04	0.00E+00	1.95E-06	0.00E+00	6.30E-04	8.00E-01	7.87E-04	4.00E+00	1.57E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	5.96E-03	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03	8.00E-01	7.59E-03	4.00E+00	1.52E-03
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	9.25E-06	0.00E+00	0.00E+00	2.15E-03	0.00E+00	6.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-03	8.00E-01	2.70E-03	4.00E+00	5.40E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	5.93E-04	0.00E+00	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-04	2.00E-01	2.98E-03	1.00E+00	5.96E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	5.41E-04	0.00E+00	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	4.58E+00	1.19E-04	9.16E+00	5.94E-05
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	5.19E-01	0.00E+00	1.31E+01	0.00E+00	0.00E+00	1.40E+01	0.00E+00	4.90E-01	0.00E+00	0.00E+00	0.00E+00	2.81E+01	1.93E+00	1.46E+01	1.93E+01	1.46E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.42E-03	0.00E+00	0.00E+00	3.31E-02	0.00E+00	4.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-02	1.25E-01	3.33E-01	1.25E+00	3.33E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	2.49E-03	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	6.85E-02	3.66E-02	6.85E-01	3.66E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.36E-06	0.00E+00	0.00E+00	5.38E-04	0.00E+00	4.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-04	6.80E-02	7.96E-03	6.80E-01	7.96E-04
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	1.88E-02	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-02	6.80E-02	2.78E-01	6.80E-01	2.78E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	6.72E-03	0.00E+00	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-03	6.80E-02	9.92E-02	6.80E-01	9.92E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03	1.83E+01	2.34E-04	1.83E+02	2.34E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	4.98E-02	0.00E+00	1.68E-02	0.00E+00	0.00E+00	0.00E+00	6.73E-02	1.00E+00	6.73E-02	1.00E+01	6.73E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.96E-07	0.00E+00	0.00E+00	6.72E-05	0.00E+00	6.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	4.58E+00	1.48E-05	9.16E+00	7.38E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.17E-02	0.00E+00	0.00E+00	1.50E-02	0.00E+00	3.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-02	2.74E+03	2.89E-05	2.74E+04	2.89E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	2.14E-04	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	3.28E+00	3.43E-04	1.31E+01	8.56E-05
cis-Nonachlor	0.00E+00	mg/L	2.76E-04	mg/kg	1.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.12E-07	0.00E+00	0.00E+00	1.16E-04	0.00E+00	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	4.58E+00	2.55E-05	9.16E+00	1.28E-05
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	3.68E-03	0.00E+00	3.26E-02	0.00E+00	0.00E+00	5.58E-01	0.00E+00	2.77E-01	0.00E+00	0.00E+00	0.00E+00	8.71E-01	1.17E+01	7.45E-02	1.51E+01	5.75E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.16E-07	0.00E+00	0.00E+00	1.14E-04	0.00E+00	3.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	2.00E-02	5.72E-03	2.00E-01	5.72E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	6.15E-07	0.00E+00	0.00E+00	1.35E-04	0.00E+00	4.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	9.20E-02	1.48E-03	9.20E-01	1.48E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	2.28E-03	0.00E+00	2.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	4.58E+00	4.99E-04	9.16E+00	2.50E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.45E-07	0.00E+00	0.00E+00	7.72E-05	0.00E+00	9.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.76E-05	1.00E-01	7.76E-04	1.00E+00	7.76E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.86E-07	0.00E+00	0.00E+00	6.39E-05	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05	8.00E-02	8.04E-04	2.90E-01	2.22E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.05E-01	0.00E+00	2.94E+01	0.00E+00	0.00E+00	2.65E+01	0.00E+00	2.94E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.88E-03	0.00E+00	2.45E-01	0.00E+00	0.00E+00	1.13E-01	0.00E+00	1.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-01	8.00E+00	6.87E-02	8.00E+01	6.87E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-02	8.80E+01	7.23E-04	2.84E+02	2.24E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	3.87E-02	NA	1.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-02	1.32E+01	3.84E-03	3.96E+01	1.28E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	4.09E-01	NA	2.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-01	4.00E+01	1.12E-02	8.00E+01	5.61E-03
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.41E-01	0.00E+00	1.69E-03	0.00E+00	0.00E+00	1.27E-02	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	1.64E-01	5.07E+02	3.24E-04	1.13E+03	1.45E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-02	5.07E+02	3.66E-05	1.13E+03	1.64E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.43E-07	0.00E+00	0.00E+00	2.06E-04	0.00E+00	6.46E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	2.40E-01	8.67E-04	2.40E+00	8.67E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.92E-03	0.00E+00	0.00E+00	2.94E-02	NA	8.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-01	8.50E+00	9.84E-02	2.55E+01	3.28E-02
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	9.68E-04	0.00E+00	3.67E-03	0.00E+00	0.00E+00	7.08E-02	0.00E+00	4.98E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-01	2.00E-01	6.26E-01	3.30E-01	3.79E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.56E-02	0.00E+00	0.00E+00	9.93E-02	0.00E+00	2.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-01	2.63E+02	1.46E-03	7.89E+02	4.87E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.30E+00	0.00E+00	2.16E-01	0.00E+00	0.00E+00	1.62E+00	0.00E+00	1.13E+00	0.00E+00	0.00E+00	0.00E+00	6.27E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	7.40E-03	4.06E-02	7.40E-02	4.06E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.22E-07	0.00E+00	0.00E+00	1.19E-04	0.00E+00	1.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	4.58E+00	2.61E-05	9.16E+00	1.30E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	4.42E-02	0.00E+00	0.00E+00	4.64E-02	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-02	2.10E-01	4.50E-01	2.10E+00	4.50E-02
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	1.95E-02	0.00E+00	1.31E-01	0.00E+00	0.00E+00	1.57E+00	0.00E+00	2.44E+00	0.00E+00	0.00E+00	0.00E+00	4.15E+00	1.60E+02	2.60E-02	3.20E+02	1.30E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:

Table O-3
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.07E-10	3.68E-09	2.20E-08	3.66E-06	2.57E-07	1.56E-06	0.00E+00	1.28E-09	0.00E+00	1.43E-09	0.00E+00	5.51E-06	1.00E-06	5.51E+00	1.00E-05	5.51E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	7.01E-06	4.17E-06	0.00E+00	9.40E-06	2.07E-04	0.00E+00	4.26E-06	0.00E+00	5.12E-06	0.00E+00	2.37E-04	8.00E-01	2.96E-04	4.00E+00	5.92E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	2.14E-03	0.00E+00	3.40E-04	0.00E+00	4.54E-05	0.00E+00	2.57E-03	8.00E-01	3.21E-03	4.00E+00	6.41E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	7.17E-06	1.43E-05	0.00E+00	3.85E-05	7.36E-04	0.00E+00	1.46E-05	0.00E+00	2.54E-05	0.00E+00	8.36E-04	8.00E-01	1.05E-03	4.00E+00	2.09E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	1.82E-04	0.00E+00	3.06E-07	0.00E+00	4.34E-06	0.00E+00	1.90E-04	2.00E-01	9.49E-04	1.00E+00	1.90E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.90E-06	0.00E+00	0.00E+00	2.47E-04	0.00E+00	2.52E-06	0.00E+00	6.01E-06	0.00E+00	2.60E-04	4.58E+00	5.68E-05	9.16E+00	2.84E-05
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.73E-01	2.43E+01	1.74E+01	2.26E-02	3.49E+02	6.56E+00	0.00E+00	5.11E-01	0.00E+00	1.60E-01	0.00E+00	3.98E+02	1.93E+00	2.06E+02	1.93E+01	2.06E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.96E-03	0.00E+00	0.00E+00	2.17E-02	0.00E+00	5.32E-03	0.00E+00	1.05E-03	0.00E+00	3.40E-02	1.25E-01	2.72E-01	1.25E+00	2.72E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	8.26E-04	0.00E+00	3.41E-05	0.00E+00	2.01E-05	0.00E+00	8.97E-04	6.85E-02	1.31E-02	6.85E-01	1.31E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.43E-06	0.00E+00	0.00E+00	1.73E-04	0.00E+00	4.42E-07	0.00E+00	4.20E-06	0.00E+00	1.81E-04	6.80E-02	2.66E-03	6.90E-01	2.62E-04
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	1.20E-04	1.33E-04	0.00E+00	8.40E-03	6.90E-03	0.00E+00	1.51E-05	0.00E+00	1.51E-04	0.00E+00	1.57E-02	6.80E-02	2.31E-01	6.90E-01	2.28E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.99E-05	0.00E+00	0.00E+00	2.17E-03	0.00E+00	2.32E-06	0.00E+00	8.15E-05	0.00E+00	2.30E-03	6.80E-02	3.38E-02	6.90E-01	3.33E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.15E-01	0.00E+00	0.00E+00	4.53E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E+00	5.10E+00	9.50E-01	1.98E+01	2.45E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.00E-03	0.00E+00	0.00E+00	9.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-02	1.83E+01	5.26E-03	1.83E+02	5.27E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	1.24E-03	9.51E-04	0.00E+00	3.15E-02	8.26E-03	0.00E+00	1.13E-02	0.00E+00	9.33E-04	0.00E+00	5.42E-02	1.00E+00	5.42E-02	1.00E+01	5.42E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.34E-07	0.00E+00	0.00E+00	2.18E-05	0.00E+00	2.23E-07	0.00E+00	5.32E-07	0.00E+00	2.30E-05	4.58E+00	5.02E-06	9.16E+00	2.51E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-03	0.00E+00	2.59E-01	0.00E+00	1.50E-02	0.00E+00	3.19E-01	2.74E+03	1.16E-04	2.74E+04	1.16E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	3.68E-03	0.00E+00	2.13E-04	0.00E+00	4.53E-03	3.28E+00	1.38E-03	1.31E+01	3.44E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.03E-07	0.00E+00	0.00E+00	4.04E-05	0.00E+00	4.13E-07	0.00E+00	9.84E-07	0.00E+00	4.26E-05	4.58E+00	9.29E-06	9.16E+00	4.65E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	1.17E-03	2.99E-02	4.41E-02	2.10E-01	5.00E-01	9.19E-02	0.00E+00	1.84E-01	0.00E+00	7.00E-03	0.00E+00	1.07E+00	1.17E+01	9.14E-02	1.51E+01	7.06E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	7.07E-06	7.76E-07	0.00E+00	1.31E-04	3.78E-05	0.00E+00	1.62E-05	0.00E+00	9.51E-07	0.00E+00	1.94E-04	2.00E-02	9.68E-03	2.00E-01	9.68E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	8.96E-07	0.00E+00	0.00E+00	4.37E-05	0.00E+00	4.37E-07	0.00E+00	1.16E-06	0.00E+00	4.62E-05	9.20E-02	5.02E-04	9.20E-01	5.02E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	1.15E-03	0.00E+00	1.18E-05	0.00E+00	2.81E-05	0.00E+00	1.22E-03	4.58E+00	2.66E-04	9.16E+00	1.33E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.97E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	1.01E-07	0.00E+00	6.09E-07	0.00E+00	2.58E-05	1.00E-01	2.58E-04	1.00E+00	2.58E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.18E-07	0.00E+00	0.00E+00	2.07E-05	0.00E+00	1.01E-07	0.00E+00	5.12E-07	0.00E+00	2.17E-05	8.00E-02	2.71E-04	2.90E-01	7.49E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.59E-01	0.00E+00	3.97E+01	7.88E+00	0.00E+00	9.87E+00	0.00E+00	2.03E+00	0.00E+00	8.73E-02	0.00E+00	5.98E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	6.39E-04	1.81E-01	4.20E-01	2.92E-02	1.43E-01	2.48E-02	0.00E+00	1.45E-01	0.00E+00	5.94E-03	0.00E+00	9.49E-01	8.00E+00	1.19E-01	8.00E+01	1.19E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.25E-02	0.00E+00	0.00E+00	1.37E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E+00	8.80E+01	1.58E-02	2.84E+02	4.90E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.88E-03	0.00E+00	0.00E+00	7.55E-03	NA	9.79E-03	0.00E+00	2.06E-04	0.00E+00	1.94E-02	1.00E+00	1.94E-02	3.00E+00	6.47E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	6.24E-04	0.00E+00	0.00E+00	1.49E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.12E-03	1.50E-02	1.41E-01	2.50E-02	8.47E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	2.09E-02	0.00E+00	0.00E+00	3.16E-01	NA	1.68E-02	0.00E+00	2.25E-03	0.00E+00	3.56E-01	4.00E+01	8.90E-03	8.00E+01	4.45E-03
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.30E-02	0.00E+00	2.63E-03	2.37E+00	0.00E+00	9.58E-03	0.00E+00	1.18E-02	0.00E+00	4.66E-04	0.00E+00	2.47E+00	5.07E+02	4.87E-03	1.13E+03	2.19E-03
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.69E-03	0.00E+00	0.00E+00	2.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-01	5.07E+02	4.42E-04	1.13E+03	1.98E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	8.19E-05	0.00E+00	7.22E-07	0.00E+00	2.07E-06	0.00E+00	8.63E-05	2.40E-01	3.60E-04	2.40E+00	3.60E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.53E-03	0.00E+00	0.00E+00	3.10E-02	NA	7.15E-01	0.00E+00	1.51E-03	0.00E+00	7.56E-01	8.50E+00	8.89E-02	2.55E+01	2.96E-02
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	3.08E-04	3.04E-03	6.20E-03	1.92E-03	4.37E-02	1.41E-02	0.00E+00	4.42E-02	0.00E+00	1.29E-03	0.00E+00	1.15E-01	2.00E-01	5.74E-01	3.30E-01	3.48E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	6.27E-03	0.00E+00	0.00E+00	9.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-02	1.90E+01	5.07E-03	5.70E+01	1.69E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.25E-02	0.00E+00	0.00E+00	5.55E-02	0.00E+00	2.79E-01	0.00E+00	1.11E-02	0.00E+00	4.08E-01	2.63E+02	1.55E-03	7.89E+02	5.18E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.17E+00	1.43E-02	4.14E-01	3.82E+01	9.56E-02	1.50E+00	0.00E+00	1.85E+00	0.00E+00	7.31E-02	0.00E+00	4.33E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.40E-04	1.66E-03	0.00E+00	6.78E-02	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-02	7.40E-03	1.26E+01	7.40E-02	1.26E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.46E-07	0.00E+00	0.00E+00	4.26E-05	0.00E+00	4.36E-07	0.00E+00	1.04E-06	0.00E+00	4.49E-05	4.58E+00	9.80E-06	9.16E+00	4.90E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	5.99E-02	0.00E+00	0.00E+00	1.68E-02	0.00E+00	3.06E-03	0.00E+00	3.77E-04	0.00E+00	8.01E-02	2.10E-01	3.82E-01	2.10E+00	3.82E-02
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	7.23E-03	2.22E-01	1.80E-01	1.10E+00	5.33E+00	2.75E-01	0.00E+00	1.65E+00	0.00E+00	8.62E-02	0.00E+00	8.86E+00	1.60E+02	5.53E-02	3.20E+02	2.77E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	6.0E-04	2.0E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.5E-03	9.1E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.8E-01	2.8E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	5.3E-03	5.3E-04
**Aldrin/

Table O-4
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	5.76E-10	2.99E-09	1.74E-08	4.05E-07	4.46E-08	6.12E-07	0.00E+00	8.62E-10	0.00E+00	8.76E-10	0.00E+00	1.08E-06	1.00E-06	1.08E+00	1.00E-05	1.08E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	6.03E-06	3.55E-06	0.00E+00	8.09E-06	1.01E-04	0.00E+00	1.27E-06	0.00E+00	3.31E-06	0.00E+00	1.24E-04	8.00E-01	1.55E-04	4.00E+00	3.09E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	9.67E-04	0.00E+00	5.85E-05	0.00E+00	3.38E-05	0.00E+00	1.09E-03	8.00E-01	1.37E-03	4.00E+00	2.73E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	6.16E-06	1.18E-05	0.00E+00	3.30E-05	3.48E-04	0.00E+00	4.20E-06	0.00E+00	1.11E-05	0.00E+00	4.15E-04	8.00E-01	5.18E-04	4.00E+00	1.04E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.26E-06	0.00E+00	0.00E+00	9.63E-05	0.00E+00	2.02E-07	0.00E+00	3.04E-06	0.00E+00	1.03E-04	2.00E-01	5.14E-04	1.00E+00	1.03E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.03E-06	0.00E+00	0.00E+00	8.78E-05	0.00E+00	3.60E-07	0.00E+00	2.82E-06	0.00E+00	9.40E-05	4.58E+00	2.05E-05	9.16E+00	1.03E-05
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.42E-01	2.12E+01	1.66E+01	1.87E-02	3.04E+02	2.28E+00	0.00E+00	3.18E-01	0.00E+00	1.17E-01	0.00E+00	3.45E+02	1.93E+00	1.79E+02	1.93E+01	1.79E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.62E-03	0.00E+00	0.00E+00	5.38E-03	0.00E+00	2.65E-03	0.00E+00	6.62E-04	0.00E+00	1.43E-02	1.25E-01	1.15E-01	1.25E+00	1.15E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	4.04E-04	0.00E+00	1.49E-06	0.00E+00	1.30E-05	0.00E+00	4.33E-04	6.85E-02	6.32E-03	6.85E-01	6.32E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.00E-06	0.00E+00	0.00E+00	8.74E-05	0.00E+00	3.21E-07	0.00E+00	2.80E-06	0.00E+00	9.35E-05	6.80E-02	1.38E-03	6.90E-01	1.36E-04
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	9.90E-05	1.02E-04	0.00E+00	1.48E-03	3.05E-03	0.00E+00	4.67E-06	0.00E+00	5.41E-05	0.00E+00	4.79E-03	6.80E-02	7.04E-02	6.90E-01	6.94E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.47E-05	0.00E+00	0.00E+00	1.09E-03	0.00E+00	2.85E-07	0.00E+00	6.17E-05	0.00E+00	1.19E-03	6.80E-02	1.75E-02	6.90E-01	1.72E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0.00E+00	4.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E+00	5.10E+00	8.39E-01	1.98E+01	2.16E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.18E-03	0.00E+00	0.00E+00	2.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02	1.83E+01	1.46E-03	1.83E+02	1.46E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	1.14E-03	8.93E-04	0.00E+00	2.19E-03	8.08E-03	0.00E+00	1.09E-02	0.00E+00	6.39E-04	0.00E+00	2.39E-02	1.00E+00	2.39E-02	1.00E+01	2.39E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.76E-07	0.00E+00	0.00E+00	1.09E-05	0.00E+00	4.48E-08	0.00E+00	3.51E-07	0.00E+00	1.17E-05	4.58E+00	2.55E-06	9.16E+00	1.28E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	4.03E-02	0.00E+00	0.00E+00	2.44E-03	0.00E+00	2.11E-02	0.00E+00	3.62E-03	0.00E+00	6.74E-02	2.74E-03	2.46E-05	2.74E+04	2.46E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	3.47E-05	0.00E+00	2.99E-04	0.00E+00	5.15E-05	0.00E+00	9.57E-04	3.28E+00	2.92E-04	1.31E+01	7.29E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.51E-07	0.00E+00	0.00E+00	1.89E-05	0.00E+00	7.75E-08	0.00E+00	6.07E-07	0.00E+00	2.02E-05	4.58E+00	4.41E-06	9.16E+00	2.21E-06
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	1.01E-03	2.55E-02	4.14E-02	3.42E-02	1.27E-01	9.06E-02	0.00E+00	1.80E-01	0.00E+00	3.95E-03	0.00E+00	5.04E-01	1.17E+01	4.31E-02	1.51E+01	3.33E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	6.06E-06	6.56E-07	0.00E+00	1.12E-04	1.84E-05	0.00E+00	2.01E-07	0.00E+00	6.12E-07	0.00E+00	1.38E-04	2.00E-02	6.91E-03	2.00E-01	6.91E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	7.82E-07	0.00E+00	0.00E+00	2.20E-05	0.00E+00	2.73E-07	0.00E+00	1.01E-06	0.00E+00	2.40E-05	9.20E-02	2.61E-04	9.20E-01	2.61E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	3.69E-04	0.00E+00	1.52E-06	0.00E+00	1.19E-05	0.00E+00	3.95E-04	4.58E+00	8.63E-05	9.16E+00	4.32E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.39E-07	0.00E+00	0.00E+00	1.25E-05	0.00E+00	6.46E-08	0.00E+00	4.09E-07	0.00E+00	1.34E-05	1.00E-01	1.34E-04	1.00E+00	1.34E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.63E-07	0.00E+00	0.00E+00	1.04E-05	0.00E+00	7.37E-08	0.00E+00	3.39E-07	0.00E+00	1.11E-05	8.00E-02	1.39E-04	2.90E-01	3.84E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.21E-01	0.00E+00	3.74E+01	1.68E+00	0.00E+00	4.30E+00	0.00E+00	1.91E+00	0.00E+00	7.00E-02	0.00E+00	4.56E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.15E-04	1.41E-01	3.12E-01	7.03E-03	1.01E-01	1.84E-02	0.00E+00	1.23E-01	0.00E+00	3.86E-03	0.00E+00	7.07E-01	8.00E+00	8.83E-02	8.00E+01	8.83E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.75E-02	0.00E+00	0.00E+00	1.33E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-01	8.80E+01	1.71E-03	2.84E+02	5.30E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	6.28E-03	NA	7.25E-03	0.00E+00	1.05E-04	0.00E+00	1.47E-02	1.00E+00	1.47E-02	3.00E+00	4.91E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	4.92E-04	0.00E+00	0.00E+00	1.18E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.67E-03	1.50E-02	1.11E-01	2.50E-02	6.68E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.96E-02	0.00E+00	0.00E+00	6.64E-02	NA	1.60E-02	0.00E+00	1.82E-03	0.00E+00	1.04E-01	4.00E+01	2.60E-03	8.00E+01	1.30E-03
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.87E-02	0.00E+00	2.15E-03	3.55E-01	0.00E+00	2.06E-03	0.00E+00	5.76E-03	0.00E+00	2.53E-04	0.00E+00	4.04E-01	5.07E+02	7.97E-04	1.13E+03	3.57E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.09E-03	0.00E+00	0.00E+00	4.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-02	5.07E+02	1.02E-04	1.13E+03	4.58E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.20E-06	0.00E+00	0.00E+00	3.35E-05	0.00E+00	4.20E-07	0.00E+00	1.12E-06	0.00E+00	3.62E-05	2.40E-01	1.51E-04	2.40E+00	1.51E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.99E-03	0.00E+00	0.00E+00	4.78E-03	NA	5.21E-01	0.00E+00	5.88E-04	0.00E+00	5.32E-01	8.50E+00	6.25E-02	2.55E+01	2.08E-02
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	2.66E-04	2.60E-03	4.67E-03	1.66E-03	3.73E-02	1.15E-02	0.00E+00	3.23E-02	0.00E+00	7.50E-04	0.00E+00	9.11E-02	2.00E-01	4.55E-01	3.30E-01	2.76E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	4.83E-03	0.00E+00	0.00E+00	6.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-02	1.90E+01	3.91E-03	5.70E+01	1.30E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.80E-02	0.00E+00	0.00E+00	1.61E-02	0.00E+00	1.56E-01	0.00E+00	6.84E-03	0.00E+00	2.37E-01	2.63E+02	9.00E-04	7.89E+02	3.00E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.07E-01	1.08E-02	2.75E-01	8.31E+00	1.45E-02	2.63E-01	0.00E+00	7.36E-01	0.00E+00	3.24E-02	0.00E+00	1.06E+01	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							8.25E-05	1.47E-03	0.00E+00	1.89E-04	2.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-02	7.40E-03	3.08E+00	7.40E-02	3.08E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.64E-07	0.00E+00	0.00E+00	1.93E-05	0.00E+00	7.91E-08	0.00E+00	6.19E-07	0.00E+00	2.06E-05	4.58E+00	4.50E-06	9.16E+00	2.25E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	5.62E-02	0.00E+00	0.00E+00	7.53E-03	0.00E+00	2.58E-03	0.00E+00	3.28E-04	0.00E+00	6.66E-02	2.10E-01	3.17E-01	2.10E+00	3.17E-02
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	5.35E-03	1.84E-01	1.66E-01	4.75E-01	1.13E+00	2.54E-01	0.00E+00	1.58E+00	0.00E+00	3.25E-02	0.00E+00	3.83E+00	1.60E+02	2.40E-02	3.20E+02	1.20E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.5E-04	7.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-03	4.1E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	9.6E-02	9.4E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.5E-03

Table O-5
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon (LBB) at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.07E-10	6.46E-10	3.87E-09	2.16E-06	1.52E-07	9.21E-07	0.00E+00	7.54E-10	0.00E+00	8.41E-10	0.00E+00	3.24E-06	1.00E-06	3.24E+00	1.00E-05	3.24E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	1.23E-06	7.33E-07	0.00E+00	5.54E-06	1.22E-04	0.00E+00	2.51E-06	0.00E+00	3.02E-06	0.00E+00	1.35E-04	8.00E-01	1.69E-04	4.00E+00	3.37E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	1.26E-03	0.00E+00	2.00E-04	0.00E+00	2.68E-05	0.00E+00	1.49E-03	8.00E-01	1.87E-03	4.00E+00	3.74E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	1.26E-06	2.52E-06	0.00E+00	2.27E-05	4.34E-04	0.00E+00	8.63E-06	0.00E+00	1.49E-05	0.00E+00	4.84E-04	8.00E-01	6.05E-04	4.00E+00	1.21E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.22E-07	0.00E+00	0.00E+00	1.07E-04	0.00E+00	1.81E-07	0.00E+00	2.56E-06	0.00E+00	1.10E-04	2.00E-01	5.52E-04	1.00E+00	1.10E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.61E-07	0.00E+00	0.00E+00	1.45E-04	0.00E+00	1.49E-06	0.00E+00	3.55E-06	0.00E+00	1.51E-04	4.58E+00	3.31E-05	9.16E+00	1.65E-05
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.73E-01	4.26E+00	3.06E+00	1.33E-02	2.06E+02	3.87E+00	0.00E+00	3.01E-01	0.00E+00	9.46E-02	0.00E+00	2.17E+02	1.93E+00	1.13E+02	1.93E+01	1.13E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.05E-03	0.00E+00	0.00E+00	1.28E-02	0.00E+00	3.14E-03	0.00E+00	6.21E-04	0.00E+00	1.76E-02	1.25E-01	1.41E-01	1.25E+00	1.41E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	4.87E-04	0.00E+00	2.01E-05	0.00E+00	1.18E-05	0.00E+00	5.22E-04	6.85E-02	7.62E-03	6.85E-01	7.62E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.02E-07	0.00E+00	0.00E+00	1.02E-04	0.00E+00	2.61E-07	0.00E+00	2.48E-06	0.00E+00	1.05E-04	6.80E-02	1.55E-03	6.90E-01	1.53E-04
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	2.11E-05	2.34E-05	0.00E+00	4.96E-03	4.07E-03	0.00E+00	8.88E-06	0.00E+00	8.89E-05	0.00E+00	9.17E-03	6.80E-02	1.35E-01	6.90E-01	1.33E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	7.01E-06	0.00E+00	0.00E+00	1.28E-03	0.00E+00	1.37E-06	0.00E+00	4.81E-05	0.00E+00	1.34E-03	6.80E-02	1.97E-02	6.90E-01	1.94E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	5.54E-02	0.00E+00	0.00E+00	2.67E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E+00	5.10E+00	5.35E-01	1.98E+01	1.38E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.00E-03	0.00E+00	0.00E+00	5.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-02	1.83E+01	3.15E-03	1.83E+02	3.15E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	2.17E-04	1.67E-04	0.00E+00	1.86E-02	4.87E-03	0.00E+00	6.66E-03	0.00E+00	5.50E-04	0.00E+00	3.11E-02	1.00E+00	3.11E-02	1.00E+01	3.11E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.62E-08	0.00E+00	0.00E+00	1.29E-05	0.00E+00	1.32E-07	0.00E+00	3.14E-07	0.00E+00	1.34E-05	4.58E+00	2.92E-06	9.16E+00	1.46E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.42E-03	0.00E+00	0.00E+00	1.51E-03	0.00E+00	1.53E-01	0.00E+00	8.83E-03	0.00E+00	1.70E-01	2.74E+03	6.23E-05	2.74E+04	6.23E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	2.15E-05	0.00E+00	2.17E-03	0.00E+00	1.25E-04	0.00E+00	2.42E-03	3.28E+00	7.38E-04	1.31E+01	1.84E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E-07	0.00E+00	0.00E+00	2.38E-05	0.00E+00	2.44E-07	0.00E+00	5.80E-07	0.00E+00	2.48E-05	4.58E+00	5.41E-06	9.16E+00	2.70E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	1.17E-03	5.24E-03	7.74E-03	1.24E-01	2.95E-01	5.42E-02	0.00E+00	1.09E-01	0.00E+00	4.13E-03	0.00E+00	6.00E-01	1.17E+01	5.13E-02	1.51E+01	3.96E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	1.24E-06	1.36E-07	0.00E+00	7.71E-05	2.23E-05	0.00E+00	9.58E-06	0.00E+00	5.61E-07	0.00E+00	1.11E-04	2.00E-02	5.55E-03	2.00E-01	5.55E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	2.58E-05	0.00E+00	2.58E-07	0.00E+00	6.84E-07	0.00E+00	2.69E-05	9.20E-02	2.92E-04	9.20E-01	2.92E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	6.81E-04	0.00E+00	6.97E-06	0.00E+00	1.66E-05	0.00E+00	7.09E-04	4.58E+00	1.55E-04	9.16E+00	7.73E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.73E-08	0.00E+00	0.00E+00	1.45E-05	0.00E+00	5.94E-08	0.00E+00	3.59E-07	0.00E+00	1.50E-05	1.00E-01	1.50E-04	1.00E+00	1.50E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.33E-08	0.00E+00	0.00E+00	1.22E-05	0.00E+00	5.94E-08	0.00E+00	3.02E-07	0.00E+00	1.26E-05	8.00E-02	1.58E-04	2.90E-01	4.35E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.59E-01	0.00E+00	6.97E+00	4.65E+00	0.00E+00	5.82E+00	0.00E+00	1.19E+00	0.00E+00	5.15E-02	0.00E+00	1.89E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	6.39E-04	3.17E-02	7.38E-02	1.72E-02	8.42E-02	1.46E-02	0.00E+00	8.55E-02	0.00E+00	3.50E-03	0.00E+00	3.11E-01	8.00E+00	3.89E-02	8.00E+01	3.89E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.25E-02	0.00E+00	0.00E+00	8.08E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-01	8.80E+01	9.43E-03	2.84E+02	2.92E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	4.45E-03	NA	5.77E-03	0.00E+00	1.21E-04	0.00E+00	1.07E-02	1.00E+00	1.07E-02	3.00E+00	3.56E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	1.10E-04	0.00E+00	0.00E+00	8.81E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.90E-04	1.50E-02	6.60E-02	2.50E-02	3.96E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	3.68E-03	0.00E+00	0.00E+00	1.86E-01	NA	9.92E-03	0.00E+00	1.33E-03	0.00E+00	2.01E-01	4.00E+01	5.03E-03	8.00E+01	2.52E-03
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.30E-02	0.00E+00	4.63E-04	1.40E+00	0.00E+00	5.65E-03	0.00E+00	6.94E-03	0.00E+00	2.75E-04	0.00E+00	1.49E+00	5.07E+02	2.93E-03	1.13E+03	1.31E-03
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.69E-03	0.00E+00	0.00E+00	1.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-01	5.07E+02	2.66E-04	1.13E+03	1.19E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.97E-07	0.00E+00	0.00E+00	4.83E-05	0.00E+00	4.26E-07	0.00E+00	1.22E-06	0.00E+00	5.02E-05	2.40E-01	2.09E-04	2.40E+00	2.09E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	1.83E-02	NA	4.21E-01	0.00E+00	8.89E-04	0.00E+00	4.42E-01	8.50E+00	5.20E-02	2.55E+01	1.73E-02
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	3.08E-04	5.34E-04	1.09E-03	1.13E-03	2.58E-02	8.34E-03	0.00E+00	2.60E-02	0.00E+00	7.58E-04	0.00E+00	6.40E-02	2.00E-01	3.20E-01	3.30E-01	1.94E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	1.10E-03	0.00E+00	0.00E+00	5.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-02	1.90E+01	2.85E-03	5.70E+01	9.51E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	3.27E-02	0.00E+00	1.65E-01	0.00E+00	6.52E-03	0.00E+00	2.15E-01	2.63E+02	8.17E-04	7.89E+02	2.72E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.17E+00	2.51E-03	7.27E-02	2.25E+01	5.64E-02	8.87E-01	0.00E+00	1.09E+00	0.00E+00	4.31E-02	0.00E+00	2.58E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.40E-04	2.91E-04	0.00E+00	4.00E-02	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-02	7.40E-03	7.36E+00	7.40E-02	7.36E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.49E-07	0.00E+00	0.00E+00	2.51E-05	0.00E+00	2.57E-07	0.00E+00	6.12E-07	0.00E+00	2.61E-05	4.58E+00	5.70E-06	9.16E+00	2.85E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	9.92E-03	0.00E+00	1.80E-03	0.00E+00	2.22E-04	0.00E+00	2.25E-02	2.10E-01	1.07E-01	2.10E+00	1.07E-02
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	7.23E-03	3.90E-02	3.16E-02	6.49E-01	3.14E+00	1.62E-01	0.00E+00	9.76E-01	0.00E+00	5.08E-02	0.00E+00	5.06E+00	1.60E+02	3.16E-02	3.20E+02	1.58E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	3.5E-04	1.2E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.6E-03	5.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.6E-01	1.6E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	3.1E-03	3.2E-04

Table O-6
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon (LBB) at the LHAAP Industrial Sub-Area/Goose PrairIe Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	5.76E-10	5.26E-10	3.06E-09	2.39E-07	2.63E-08	3.61E-07	0.00E+00	5.08E-10	0.00E+00	5.17E-10	0.00E+00	6.31E-07	1.00E-06	6.31E-01	1.00E-05	6.31E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	1.06E-06	6.24E-07	0.00E+00	4.77E-06	5.98E-05	0.00E+00	7.48E-07	0.00E+00	1.95E-06	0.00E+00	6.90E-05	8.00E-01	8.62E-05	4.00E+00	1.72E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	5.92E-06	0.00E+00	0.00E+00	5.70E-04	0.00E+00	3.45E-05	0.00E+00	1.99E-05	0.00E+00	6.31E-04	8.00E-01	7.88E-04	4.00E+00	1.58E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	1.08E-06	2.07E-06	0.00E+00	1.95E-05	2.05E-04	0.00E+00	2.48E-06	0.00E+00	6.54E-06	0.00E+00	2.37E-04	8.00E-01	2.96E-04	4.00E+00	5.93E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.72E-07	0.00E+00	0.00E+00	5.68E-05	0.00E+00	1.19E-07	0.00E+00	1.79E-06	0.00E+00	5.92E-05	2.00E-01	2.96E-04	1.00E+00	5.92E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.32E-07	0.00E+00	0.00E+00	5.18E-05	0.00E+00	2.12E-07	0.00E+00	1.66E-06	0.00E+00	5.42E-05	4.58E+00	1.18E-05	9.16E+00	5.91E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.42E-01	3.72E+00	2.92E+00	1.10E-02	1.79E+02	1.34E+00	0.00E+00	1.88E-01	0.00E+00	6.90E-02	0.00E+00	1.88E+02	1.93E+00	9.72E+01	1.93E+01	9.72E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.87E-04	0.00E+00	0.00E+00	3.17E-03	0.00E+00	1.56E-03	0.00E+00	3.90E-04	0.00E+00	6.11E-03	1.25E-01	4.89E-02	1.25E+00	4.89E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.44E-06	0.00E+00	0.00E+00	2.38E-04	0.00E+00	8.77E-07	0.00E+00	7.64E-06	0.00E+00	2.49E-04	6.85E-02	3.64E-03	6.85E-01	3.64E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.28E-07	0.00E+00	0.00E+00	5.15E-05	0.00E+00	1.90E-07	0.00E+00	1.65E-06	0.00E+00	5.39E-05	6.80E-02	7.93E-04	6.90E-01	7.81E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	1.74E-05	1.80E-05	0.00E+00	8.70E-04	1.80E-03	0.00E+00	2.75E-06	0.00E+00	3.19E-05	0.00E+00	2.74E-03	6.80E-02	4.03E-02	6.90E-01	3.97E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	6.43E-04	0.00E+00	1.68E-07	0.00E+00	3.64E-05	0.00E+00	6.85E-04	6.80E-02	1.01E-02	6.90E-01	9.93E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	4.89E-02	0.00E+00	0.00E+00	2.36E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	5.10E+00	4.72E-01	1.98E+01	1.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.18E-03	0.00E+00	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	1.83E+01	8.88E-04	1.83E+02	8.90E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	2.00E-04	1.57E-04	0.00E+00	1.29E-03	4.76E-03	0.00E+00	6.44E-03	0.00E+00	3.77E-04	0.00E+00	1.32E-02	1.00E+00	1.32E-02	1.00E+01	1.32E-03
Chlordane	0.00E+00	mg/L	1.60E-04	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.61E-08	0.00E+00	0.00E+00	6.43E-06	0.00E+00	2.64E-08	0.00E+00	2.07E-07	0.00E+00	6.73E-06	4.58E+00	1.47E-06	9.16E+00	7.35E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	7.07E-03	0.00E+00	0.00E+00	1.44E-03	0.00E+00	1.24E-02	0.00E+00	2.14E-03	0.00E+00	2.31E-02	2.74E+03	8.43E-06	2.74E+04	8.43E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	2.04E-05	0.00E+00	1.76E-04	0.00E+00	3.03E-05	0.00E+00	3.28E-04	3.28E+00	9.99E-05	1.31E+01	2.49E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	1.11E-05	0.00E+00	4.57E-08	0.00E+00	3.58E-07	0.00E+00	1.16E-05	4.58E+00	2.54E-06	9.16E+00	1.27E-06
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	1.01E-03	4.49E-03	7.27E-03	2.01E-02	7.50E-02	5.34E-02	0.00E+00	1.06E-01	0.00E+00	2.33E-03	0.00E+00	2.70E-01	1.17E+01	2.31E-02	1.51E+01	1.78E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	1.06E-06	1.15E-07	0.00E+00	6.61E-05	1.09E-05	0.00E+00	1.19E-07	0.00E+00	3.61E-07	0.00E+00	7.87E-05	2.00E-02	3.93E-03	2.00E-01	3.93E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	1.37E-07	0.00E+00	0.00E+00	1.29E-05	0.00E+00	1.61E-07	0.00E+00	5.95E-07	0.00E+00	1.38E-05	9.20E-02	1.50E-04	9.20E-01	1.50E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-06	0.00E+00	0.00E+00	2.18E-04	0.00E+00	8.94E-07	0.00E+00	7.00E-06	0.00E+00	2.28E-04	4.58E+00	4.98E-05	9.16E+00	2.49E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.70E-08	0.00E+00	0.00E+00	7.39E-06	0.00E+00	3.81E-08	0.00E+00	2.41E-07	0.00E+00	7.74E-06	1.00E-01	7.74E-05	1.00E+00	7.74E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.38E-08	0.00E+00	0.00E+00	6.12E-06	0.00E+00	4.34E-08	0.00E+00	2.00E-07	0.00E+00	6.42E-06	8.00E-02	8.03E-05	2.90E-01	2.21E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.21E-01	0.00E+00	6.57E+00	9.92E-01	0.00E+00	2.53E+00	0.00E+00	1.13E+00	0.00E+00	4.13E-02	0.00E+00	1.15E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.15E-04	2.47E-02	5.48E-02	4.15E-03	5.98E-02	1.08E-02	0.00E+00	7.24E-02	0.00E+00	2.28E-03	0.00E+00	2.29E-01	8.00E+00	2.87E-02	8.00E+01	2.87E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.75E-02	0.00E+00	0.00E+00	7.84E-02	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-02	8.80E+01	1.09E-03	2.84E+02	3.38E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	3.70E-03	NA	4.28E-03	0.00E+00	6.18E-05	0.00E+00	8.23E-03	1.00E+00	8.23E-03	3.00E+00	2.74E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	8.65E-05	0.00E+00	0.00E+00	6.95E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.81E-04	1.50E-02	5.21E-02	2.50E-02	3.13E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	3.91E-02	NA	9.45E-03	0.00E+00	1.07E-03	0.00E+00	5.31E-02	4.00E+01	1.33E-03	8.00E+01	6.64E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.87E-02	0.00E+00	3.78E-04	2.09E-01	0.00E+00	1.21E-03	0.00E+00	3.40E-03	0.00E+00	1.49E-04	0.00E+00	2.53E-01	5.07E+02	4.99E-04	1.13E+03	2.24E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.09E-03	0.00E+00	0.00E+00	2.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-02	5.07E+02	6.43E-05	1.13E+03	2.89E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-07	0.00E+00	0.00E+00	1.98E-05	0.00E+00	2.47E-07	0.00E+00	6.59E-07	0.00E+00	2.09E-05	2.40E-01	8.70E-05	2.40E+00	8.70E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	2.82E-03	NA	3.07E-01	0.00E+00	3.47E-04	0.00E+00	3.11E-01	8.50E+00	3.66E-02	2.55E+01	1.22E-02
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	2.66E-04	4.56E-04	8.20E-04	9.78E-04	2.20E-02	6.78E-03	0.00E+00	1.91E-02	0.00E+00	4.42E-04	0.00E+00	5.08E-02	2.00E-01	2.54E-01	3.30E-01	1.54E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	8.48E-04	0.00E+00	0.00E+00	4.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-02	1.90E+01	2.20E-03	5.70E+01	7.33E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	9.50E-03	0.00E+00	9.17E-02	0.00E+00	4.03E-03	0.00E+00	1.15E-01	2.63E+02	4.39E-04	7.89E+02	1.46E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.07E-01	1.90E-03	4.82E-02	4.90E+00	8.55E-03	1.55E-01	0.00E+00	4.34E-01	0.00E+00	1.91E-02	0.00E+00	6.48E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							8.25E-05	2.58E-04	0.00E+00	1.11E-04	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	7.40E-03	1.74E+00	7.40E-02	1.74E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.17E-07	0.00E+00	0.00E+00	1.14E-05	0.00E+00	4.66E-08	0.00E+00	3.65E-07	0.00E+00	1.19E-05	4.58E+00	2.60E-06	9.16E+00	1.30E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	9.87E-03	0.00E+00	0.00E+00	4.44E-03	0.00E+00	1.52E-03	0.00E+00	1.93E-04	0.00E+00	1.60E-02	2.10E-01	7.63E-02	2.10E+00	7.63E-03
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	5.35E-03	3.22E-02	2.92E-02	2.80E-01	6.69E-01	1.50E-01	0.00E+00	9.33E-01	0.00E+00	1.92E-02	0.00E+00	2.12E+00	1.60E+02	1.32E-02	3.20E+02	6.62E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.5E-04	4.2E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.2E-03	2.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	5.5E-02	5.4E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	8.9E-04	8.9E-05
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Table O-7
BERA Tier 1 COPCs EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	7.62E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.89E-09	0.00E+00	1.06E-07	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	1.00E-06	1.83E+01	1.00E-05	1.83E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.88E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03	8.00E-01	3.94E-03	4.00E+00	7.89E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	2.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-02	8.00E-01	3.64E-02	4.00E+00	7.28E-03
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.89E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	9.63E-05	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	8.00E-01	1.50E-02	4.00E+00	3.00E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	2.00E-01	2.45E-02	1.00E+00	4.91E-03
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	4.58E+00	9.71E-04	9.16E+00	4.85E-04
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	9.54E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.61E-01	0.00E+00	1.33E+02	0.00E+00	0.00E+00	1.21E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E+02	1.93E+00	1.32E+02	1.93E+01	1.32E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.94E-02	0.00E+00	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-01	1.25E-01	2.30E+00	1.25E+00	2.30E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	7.40E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	6.85E-02	1.85E-01	6.85E-01	1.85E-02
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	6.80E-02	3.32E-02	6.80E-01	3.32E-03
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.39E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.52E-04	0.00E+00	0.00E+00	9.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-02	6.80E-02	1.39E+00	6.80E-01	1.39E-01
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	3.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-02	6.80E-02	5.23E-01	6.80E-01	5.23E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	1.83E+01	2.91E-04	1.83E+02	2.92E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	8.87E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.64E+00	8.28E-01	6.53E-01	6.53E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-01	1.00E+00	1.69E-01	1.00E+01	1.69E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.83E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	4.58E+00	6.80E-05	9.16E+00	3.40E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.85E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	2.58E-01	0.00E+00	0.00E+00	3.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-01	2.74E+03	1.08E-04	2.74E+04	1.08E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	3.67E-03	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03	3.28E+00	1.28E-03	1.31E+01	3.20E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.91E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.46E-06	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	4.58E+00	1.46E-04	9.16E+00	7.28E-05
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.83E-01	4.15E-01	3.39E-01	3.39E-01	1.49E-01	1.49E-01	3.12E-03	0.00E+00	2.46E-01	0.00E+00	0.00E+00	1.29E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+00	1.17E+01	1.32E-01	1.51E+01	1.02E-01
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.70E-03	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	2.00E-02	1.41E-01	2.00E-01	1.41E-02
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.03E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	9.20E-02	7.25E-03	9.20E-01	7.25E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.38E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	0.00E+00	9.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-03	4.58E+00	2.00E-03	9.16E+00	1.00E-03
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.61E-06	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	1.00E-01	3.14E-03	1.00E+00	3.14E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-02	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	2.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-02	8.00E-02	3.60E-01	2.90E-01	9.93E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.74E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.91E-01	0.00E+00	2.43E+02	0.00E+00	0.00E+00	1.46E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.91E-02	2.91E-02	1.33E-02	1.33E-02	1.71E-03	0.00E+00	2.11E+00	0.00E+00	0.00E+00	3.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	8.00E+00	3.02E-01	8.00E+01	3.02E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	6.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-02	8.80E+01	6.82E-04	2.84E+02	2.11E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.89E-01	mg/kg	1.00E+00		7.50E-01	1.54E+00	NA	4.69E-01	4.69E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	8.22E-03	0.00E+00	0.00E+00	9.75E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-01	1.32E+01	8.01E-03	3.96E+01	2.67E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.00E-02	6.00E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.50E-01	0.00E+00	0.00E+00	5.45E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E+00	4.00E+01	1.40E-01	8.00E+01	7.00E-02
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.95E-01	0.00E+00	2.59E-02	0.00E+00	0.00E+00	2.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-01	5.07E+02	8.84E-04	1.13E+03	3.97E-04
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	5.07E+02	3.52E-05	1.13E+03	1.58E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.77E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	2.40E-01	6.01E-03	2.40E+00	6.01E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.79E+00	mg/kg	1.00E+00			1.14E+00	NA	6.44E+00	6.44E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.29E-02	0.00E+00	0.00E+00	4.64E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-01	8.50E+00	6.08E-02	2.55E+01	2.03E-02
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	1.50E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.32E-01	5.20E-01	5.28E-01	5.28E-01	1.95E-01	1.95E-01	8.22E-04	0.00E+00	2.09E-02	0.00E+00	0.00E+00	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-01	2.00E-01	7.78E-01	3.30E-01	4.72E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	5.39E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.53E-01	0.00E+00	0.00E+00	1.61E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E+00	2.63E+02	8.98E-03	7.89E+02	2.99E-03
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.35E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.13E+00	0.00E+00	1.88E+00	0.00E+00	0.00E+00	1.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	7.40E-03	5.05E-02	7.40E-02	5.05E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.80E-06	0.00E+00	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	4.58E+00	1.55E-04	9.16E+00	7.74E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	3.63E-01	0.00E+00	0.00E+00	2.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-01	2.10E-01	2.90E+00	2.10E+00	2.90E-01
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	6.16E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.92E-01	7.92E-01	4.51E-01	4.51E-01	1.93E-02	0.00E+00	8.60E-01	0.00E+00	0.00E+00	3.18E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E+00	1.60E+02	2.54E-02	3.20E+02	1.27E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	6.5E-03	2.0E-03

Table O-8
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	5.82E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.54E-09	0.00E+00	8.12E-08	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-06	6.96E+00	1.00E-05	6.96E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.64E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.29E-05	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	8.00E-01	2.00E-03	4.00E+00	4.00E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.20E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	8.00E-01	1.47E-02	4.00E+00	2.94E-03
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	5.57E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	5.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-03	8.00E-01	7.03E-03	4.00E+00	1.41E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	2.00E-01	8.87E-03	1.00E+00	1.77E-03
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.34E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	4.58E+00	2.90E-04	9.16E+00	1.45E-04
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	8.99E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.81E-01	0.00E+00	1.26E+02	0.00E+00	0.00E+00	4.15E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+02	1.93E+00	8.67E+01	1.93E+01	8.67E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.86E-02	0.00E+00	0.00E+00	6.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-02	1.25E-01	7.58E-01	1.25E+00	7.58E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.31E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	6.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-03	6.85E-02	9.15E-02	6.85E-01	9.15E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.11E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	6.80E-02	1.61E-02	6.80E-01	1.61E-03
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.78E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	5.28E-04	0.00E+00	0.00E+00	3.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-02	6.80E-02	5.66E-01	6.80E-01	5.66E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.70E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-02	6.80E-02	2.68E-01	6.80E-01	2.68E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03	1.83E+01	1.71E-04	1.83E+02	1.72E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	7.47E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	1.83E+00	8.58E-01	7.06E-01	7.06E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	1.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-01	1.00E+00	1.58E-01	1.00E+01	1.58E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	4.58E+00	3.45E-05	9.16E+00	1.72E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.74E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.43E-01	0.00E+00	0.00E+00	3.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-01	2.74E+03	1.02E-04	2.74E+04	1.02E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.45E-03	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03	3.28E+00	1.21E-03	1.31E+01	3.01E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.70E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.77E-06	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	4.58E+00	5.83E-05	9.16E+00	2.92E-05
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.33E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	8.47E-01	4.57E-01	4.03E-01	4.03E-01	8.97E-02	8.97E-02	2.70E-03	0.00E+00	1.86E-01	0.00E+00	0.00E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+00	1.17E+01	1.19E-01	1.51E+01	9.23E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	2.00E-02	7.26E-02	2.00E-01	7.26E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.95E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	9.20E-02	3.07E-03	9.20E-01	3.07E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.61E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	4.58E+00	7.79E-04	9.16E+00	3.90E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.65E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.30E-06	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	1.00E-01	1.60E-03	1.00E+00	1.60E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	8.00E-02	1.80E-01	2.90E-01	4.97E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.64E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	5.90E-01	0.00E+00	2.29E+02	0.00E+00	0.00E+00	6.35E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.84E-02	4.37E-02	3.21E-02	3.21E-02	1.16E-02	1.16E-02	1.38E-03	0.00E+00	1.68E+00	0.00E+00	0.00E+00	2.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+00	8.00E+00	2.40E-01	8.00E+01	2.40E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-02	8.80E+01	5.30E-04	2.84E+02	1.64E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E-01	mg/kg	1.00E+00		7.50E-01	2.63E+00	NA	6.77E-01	6.77E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	3.70E-03	0.00E+00	0.00E+00	7.49E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-02	1.32E+01	5.96E-03	3.96E+01	1.99E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	9.95E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.11E-02	6.11E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.39E-01	0.00E+00	0.00E+00	1.13E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	4.00E+01	3.18E-02	8.00E+01	1.59E-02
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	1.21E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-01	0.00E+00	1.68E-02	0.00E+00	0.00E+00	3.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-01	5.07E+02	3.14E-04	1.13E+03	1.41E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	5.07E+02	2.68E-05	1.13E+03	1.20E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.08E-06	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	2.40E-01	2.01E-03	2.40E+00	2.01E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E+00	mg/kg	1.00E+00			3.00E-01	NA	7.16E+00	7.16E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.09E-02	0.00E+00	0.00E+00	9.43E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-01	8.50E+00	1.59E-02	2.55E+01	5.30E-03
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.17E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.89E-01	5.12E-01	5.15E-01	5.15E-01	1.51E-01	1.51E-01	7.10E-04	0.00E+00	1.64E-02	0.00E+00	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-01	2.00E-01	6.45E-01	3.30E-01	3.91E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.84E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.36E-01	0.00E+00	0.00E+00	3.59E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-01	2.63E+02	3.40E-03	7.89E+02	1.13E-03
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	9.41E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.42E+00	0.00E+00	1.31E+00	0.00E+00	0.00E+00	3.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	7.40E-03	2.98E-02	7.40E-02	2.98E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.72E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.79E-06	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	4.58E+00	5.87E-05	9.16E+00	2.93E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	3.47E-01	0.00E+00	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-01	2.10E-01	2.18E+00	2.10E+00	2.18E-01
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	5.34E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.44E-01	8.44E-01	1.84E-01	1.84E-01	1.43E-02	0.00E+00	7.45E-01	0.00E

Table O-9
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Red Fox at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	7.62E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.25E-10	0.00E+00	7.21E-09	0.00E+00	0.00E+00	1.72E-07	0.00E+00	1.40E-10	0.00E+00	1.10E-08	2.35E-09	1.93E-07	1.00E-06	1.93E-01	1.00E-05	1.93E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L		mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.88E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.78E-06	0.00E+00	0.00E+00	2.95E-05	0.00E+00	6.08E-07	0.00E+00	5.11E-05	1.10E-05	9.40E-05	8.00E-01	1.17E-04	4.00E+00	2.35E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	2.72E-04	0.00E+00	4.33E-05	0.00E+00	4.05E-04	8.68E-05	8.24E-04	8.00E-01	1.03E-03	4.00E+00	2.06E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.89E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	6.53E-06	0.00E+00	0.00E+00	1.12E-04	0.00E+00	2.24E-06	0.00E+00	2.71E-04	5.81E-05	4.50E-04	8.00E-01	5.63E-04	4.00E+00	1.13E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.67E-06	0.00E+00	0.00E+00	4.59E-05	0.00E+00	7.75E-08	0.00E+00	7.68E-05	1.65E-05	1.42E-04	2.00E-01	7.10E-04	1.00E+00	1.42E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.47E-06	0.00E+00	0.00E+00	4.16E-05	0.00E+00	4.26E-07	0.00E+00	7.10E-05	1.52E-05	1.31E-04	4.58E+00	2.85E-05	9.16E+00	1.43E-05
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	9.54E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.77E-01	0.00E+00	9.03E+00	0.00E+00	0.00E+00	1.14E+00	0.00E+00	8.89E-02	0.00E+00	1.95E+00	4.18E-01	1.28E+01	1.93E+00	6.64E+00	1.93E+01	6.64E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	2.43E-03	0.00E+00	5.97E-04	0.00E+00	8.27E-03	1.77E-03	1.51E-02	1.25E-01	1.21E-01	1.25E+00	1.21E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	7.40E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	1.18E-04	0.00E+00	4.89E-06	0.00E+00	2.01E-04	4.32E-05	3.75E-04	6.85E-02	5.47E-03	6.85E-01	5.47E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	2.12E-05	0.00E+00	5.41E-08	0.00E+00	3.60E-05	7.71E-06	6.61E-05	6.80E-02	9.73E-04	6.90E-01	9.59E-05
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.39E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.11E-05	0.00E+00	0.00E+00	8.85E-04	0.00E+00	1.93E-06	0.00E+00	1.35E-03	2.90E-04	2.58E-03	6.80E-02	3.80E-02	6.90E-01	3.74E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	3.33E-04	0.00E+00	3.55E-07	0.00E+00	8.74E-04	1.87E-04	1.41E-03	6.80E-02	2.08E-02	6.90E-01	2.05E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-03	1.83E+01	1.12E-04	1.83E+02	1.12E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	8.87E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.64E+00	8.28E-01	6.53E-01	6.53E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	8.40E-04	0.00E+00	0.00E+00	1.48E-03	0.00E+00	2.35E-03	0.00E+00	1.94E-02	4.15E-03	2.82E-02	1.00E+00	2.82E-02	1.00E+01	2.82E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.83E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.73E-07	0.00E+00	0.00E+00	2.92E-06	0.00E+00	2.98E-08	0.00E+00	4.97E-06	1.07E-06	9.16E-06	4.58E+00	2.00E-06	9.16E+00	1.00E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.85E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	3.56E-04	0.00E+00	3.60E-02	0.00E+00	1.46E-01	3.12E-02	2.31E-01	2.74E+03	8.44E-05	2.74E+04	8.44E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	5.06E-06	0.00E+00	5.11E-04	0.00E+00	2.07E-03	4.44E-04	3.28E-03	3.28E+00	9.99E-04	1.31E+01	2.49E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.91E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.70E-07	0.00E+00	0.00E+00	6.24E-06	0.00E+00	6.39E-08	0.00E+00	1.07E-05	2.28E-06	1.96E-05	4.58E+00	4.28E-06	9.16E+00	2.14E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.83E-01	4.15E-01	3.39E-01	3.39E-01	1.49E-01	1.49E-01	1.20E-03	0.00E+00	1.67E-02	0.00E+00	0.00E+00	1.22E-02	0.00E+00	2.43E-02	0.00E+00	6.23E-02	1.33E-02	1.30E-01	1.17E+01	1.11E-02	1.51E+01	8.58E-03
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.70E-03	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.61E-06	0.00E+00	0.00E+00	2.64E-05	0.00E+00	1.13E-05	0.00E+00	4.64E-05	9.95E-06	9.57E-05	2.00E-02	4.79E-03	2.00E-01	4.79E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.03E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.82E-07	0.00E+00	0.00E+00	6.24E-06	0.00E+00	6.25E-08	0.00E+00	1.16E-05	2.49E-06	2.08E-05	9.20E-02	2.26E-04	9.20E-01	2.26E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.38E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.09E-06	0.00E+00	0.00E+00	8.59E-05	0.00E+00	8.79E-07	0.00E+00	1.47E-04	3.14E-05	2.70E-04	4.58E+00	5.89E-05	9.16E+00	2.94E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.77E-07	0.00E+00	0.00E+00	2.93E-06	0.00E+00	1.20E-08	0.00E+00	5.09E-06	1.09E-06	9.30E-06	1.00E-01	9.30E-05	1.00E+00	9.30E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-02	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	2.70E-04	0.00E+00	1.31E-06	0.00E+00	4.67E-04	1.00E-04	8.54E-04	8.00E-02	1.07E-02	2.90E-01	2.95E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.74E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.65E-01	0.00E+00	1.65E+01	0.00E+00	0.00E+00	1.37E+00	0.00E+00	2.82E-01	0.00E+00	8.50E-01	1.82E-01	1.94E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.91E-02	2.91E-02	1.33E-02	1.33E-02	6.56E-04	0.00E+00	1.43E-01	0.00E+00	0.00E+00	2.83E-03	0.00E+00	1.78E-02	0.00E+00	4.76E-02	1.02E-02	2.22E-01	8.00E+00	2.78E-02	8.00E+01	2.78E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-02	8.80E+01	2.62E-04	2.84E+02	8.12E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.89E-01	mg/kg	1.00E+00		7.50E-01	1.54E+00	NA	4.69E-01	4.69E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	9.20E-04	NA	1.12E-03	0.00E+00	1.43E-03	3.07E-04	4.34E-03	1.00E+00	4.34E-03	3.00E+00	1.45E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.00E-02	6.00E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	5.15E-02	NA	2.61E-03	0.00E+00	2.57E-02	5.50E-03	9.54E-02	4.00E+01	2.38E-03	8.00E+01	1.19E-03
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.48E-02	0.00E+00	1.76E-03	0.00E+00	0.00E+00	2.15E-03	0.00E+00	2.64E-03	0.00E+00	7.30E-03	1.56E-03	9.02E-02	5.07E+02	1.78E-04	1.13E+03	7.98E-05
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	5.07E+02	1.35E-05	1.13E+03	6.07E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.77E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.31E-07	0.00E+00	0.00E+00	1.35E-05	0.00E+00	1.19E-07	0.00E+00	2.39E-05	5.12E-06	4.35E-05	2.40E-01	1.81E-04	2.40E+00	1.81E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.79E+00	mg/kg	1.00E+00			1.14E+00	NA	6.44E+00	6.44E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.59E-03	0.00E+00	0.00E+00	4.37E-03	NA	9.89E-02	0.00E+00	1.49E-02	3.19E-03	1.25E-01	8.50E+00	1.47E-02	2.55E+01	4.90E-03
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	1.50E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.32E-01	5.20E-01	5.28E-01	5.28E-01	1.95E-01	1.95E-01	3.16E-04	0.00E+00	1.42E-03	0.00E+00	0.00E+00	1.26E-03	0.00E+00	3.20E-03	0.00E+00	6.91E-03	1.48E-03	1.46E-02	2.00E-01	7.30E-02	3.30E-01	4.42E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	5.39E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.11E-02	0.00E+00	0.00E+00	1.52E-02	0.00E+00	7.65E-02	0.00E+00	2.12E-01	4.54E-02	4.00E-01	2.63E+02	1.52E-03	7.89E+02	5.07E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.35E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.20E+00	0.00E+00	1.28E-01	0.00E+00	0.00E+00	1.56E-01	0.00E+00	1.91E-01	0.00E+00	5.30E-01	1.14E-01	2.32E+00	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	7.40E-03	1.94E-02	7.40E-02	1.94E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.93E-07	0.00E+00	0.00E+00	6.63E-06	0.00E+00	6.79E-08	0.00E+00	1.13E-05	2.43E-06	2.08E-05	4.58E+00	4.55E-06	9.16E+00	2.27E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	2.46E-02	0.00E+00	0.00E+00	2.32E-03	0.00E+00	4.22E-04	0.00E+00	3.64E-03	7.80E-04	3.18E-02	2.10E-01	1.51E-01	2.10E+00	1.51E-02
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	6.16E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.92E-01	7.92E-01	4.51E-01	4.51E-01	7.41E-03	0.00E+00	5.84E-02	0.00E+00	0.00E+00	3.00E-02	0.00E+00	1.98E-01	0.00E+00	6.57E-01	1.41E-01	1.09E+00	1.60E+02	6.82E-03	3.20E+02	3.41E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.9E-04	5.8E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.7E-03	3.4E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.5E-02	6.4E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.1E-04	1.1E-05
**Aldrin/Dieldrin/Endrin EEQ

Table O-10
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	5.82E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	5.37E-10	0.00E+00	5.00E-09	0.00E+00	0.00E+00	5.89E-08	0.00E+00	8.30E-11	0.00E+00	5.90E-09	1.27E-09	7.17E-08	1.00E-06	7.17E-02	1.00E-05	7.17E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.64E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-06	0.00E+00	0.00E+00	1.35E-05	0.00E+00	3.09E-05	6.62E-06	5.26E-05	8.00E-01	6.57E-05	4.00E+00	1.31E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.20E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	9.92E-05	0.00E+00	6.00E-06	0.00E+00	2.42E-04	5.19E-05	4.10E-04	8.00E-01	5.12E-04	4.00E+00	1.02E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	5.57E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	4.79E-06	0.00E+00	0.00E+00	4.75E-05	0.00E+00	5.74E-07	0.00E+00	1.06E-04	2.27E-05	1.82E-04	8.00E-01	2.27E-04	4.00E+00	4.54E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.51E-06	0.00E+00	0.00E+00	1.50E-05	0.00E+00	3.14E-08	0.00E+00	3.31E-05	7.09E-06	5.67E-05	2.00E-01	2.84E-04	1.00E+00	5.67E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.34E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.16E-06	0.00E+00	0.00E+00	1.12E-05	0.00E+00	4.61E-08	0.00E+00	2.53E-05	5.42E-06	4.31E-05	4.58E+00	9.42E-06	9.16E+00	4.71E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	8.99E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.33E-01	0.00E+00	7.74E+00	0.00E+00	0.00E+00	3.56E-01	0.00E+00	4.97E-02	0.00E+00	1.28E+00	2.74E-01	9.83E+00	1.93E+00	5.09E+00	1.93E+01	5.09E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.77E-03	0.00E+00	0.00E+00	5.67E-04	0.00E+00	2.79E-04	0.00E+00	4.88E-03	1.05E-03	8.54E-03	1.25E-01	6.83E-02	1.25E+00	6.83E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.31E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.43E-06	0.00E+00	0.00E+00	5.30E-05	0.00E+00	1.95E-07	0.00E+00	1.19E-04	2.55E-05	2.03E-04	6.85E-02	2.96E-03	6.85E-01	2.96E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.11E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.51E-07	0.00E+00	0.00E+00	9.27E-06	0.00E+00	3.41E-08	0.00E+00	2.08E-05	4.46E-06	3.55E-05	6.80E-02	5.22E-04	6.90E-01	5.15E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.78E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	3.25E-04	0.00E+00	4.98E-07	0.00E+00	4.04E-04	8.66E-05	8.49E-04	6.80E-02	1.25E-02	6.90E-01	1.23E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.70E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	1.54E-04	0.00E+00	4.03E-08	0.00E+00	6.11E-04	1.31E-04	9.11E-04	6.80E-02	1.34E-02	6.90E-01	1.32E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	1.83E+01	5.98E-05	1.83E+02	5.99E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	7.47E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	1.83E+00	8.58E-01	7.06E-01	7.06E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-03	0.00E+00	1.94E-03	0.00E+00	1.08E-02	2.31E-03	1.69E-02	1.00E+00	1.69E-02	1.00E+01	1.69E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-07	0.00E+00	5.48E-09	0.00E+00	3.00E-06	6.43E-07	5.12E-06	4.58E+00	1.12E-06	9.16E+00	5.59E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.74E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	2.63E-03	0.00E+00	3.16E-02	6.78E-03	5.63E-02	2.74E+03	2.06E-05	2.74E+04	2.06E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-06	0.00E+00	3.73E-05	0.00E+00	4.49E-04	9.62E-05	7.99E-04	3.28E+00	2.44E-04	1.31E+01	6.08E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.70E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.32E-07	0.00E+00	0.00E+00	2.26E-06	0.00E+00	9.26E-09	0.00E+00	5.08E-06	1.09E-06	8.66E-06	4.58E+00	1.89E-06	9.16E+00	9.46E-07
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.33E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	8.47E-01	4.57E-01	4.03E-01	4.03E-01	8.97E-02	8.97E-02	9.40E-04	0.00E+00	1.14E-02	0.00E+00	0.00E+00	1.04E-02	0.00E+00	1.97E-02	0.00E+00	2.56E-02	5.49E-03	7.36E-02	1.17E+01	6.29E-03	1.51E+01	4.86E-03
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.30E-06	0.00E+00	0.00E+00	1.23E-05	0.00E+00	1.34E-07	0.00E+00	2.85E-05	6.11E-06	4.83E-05	2.00E-02	2.42E-03	2.00E-01	2.42E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.95E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.54E-07	0.00E+00	0.00E+00	2.39E-06	0.00E+00	2.98E-08	0.00E+00	7.69E-06	1.65E-06	1.20E-05	9.20E-02	1.31E-04	9.20E-01	1.31E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.61E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.10E-06	0.00E+00	0.00E+00	3.02E-05	0.00E+00	1.24E-07	0.00E+00	6.79E-05	1.45E-05	1.16E-04	4.58E+00	2.53E-05	9.16E+00	1.26E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.65E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.42E-07	0.00E+00	0.00E+00	1.36E-06	0.00E+00	6.99E-09	0.00E+00	3.10E-06	6.64E-07	5.26E-06	1.00E-01	5.26E-05	1.00E+00	5.26E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	1.22E-04	0.00E+00	8.64E-07	0.00E+00	2.78E-04	5.96E-05	4.73E-04	8.00E-02	5.91E-03	2.90E-01	1.63E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.64E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.06E-01	0.00E+00	1.41E+01	0.00E+00	0.00E+00	5.44E-01	0.00E+00	2.42E-01	0.00E+00	6.20E-01	1.33E-01	1.59E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.84E-02	4.37E-02	3.21E-02	3.21E-02	1.16E-02	1.16E-02	4.80E-04	0.00E+00	1.04E-01	0.00E+00	0.00E+00	2.04E-03	0.00E+00	1.42E-02	0.00E+00	3.01E-02	6.45E-03	1.57E-01	8.00E+00	1.96E-02	8.00E+01	1.96E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	8.80E+01	1.85E-04	2.84E+02	5.73E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E-01	mg/kg	1.00E+00		7.50E-01	2.63E+00	NA	6.77E-01	6.77E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	6.42E-04	NA	6.62E-04	0.00E+00	5.21E-04	1.12E-04	2.16E-03	1.00E+00	2.16E-03	3.00E+00	7.22E-04
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	9.95E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.11E-02	6.11E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.57E-03	0.00E+00	0.00E+00	9.70E-03	NA	2.24E-03	0.00E+00	1.86E-02	3.99E-03	4.31E-02	4.00E+01	1.08E-03	8.00E+01	5.39E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	1.21E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.61E-02	0.00E+00	1.04E-03	0.00E+00	0.00E+00	3.33E-04	0.00E+00	9.32E-04	0.00E+00	2.87E-03	6.15E-04	4.19E-02	5.07E+02	8.26E-05	1.13E+03	3.70E-05
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03	5.07E+02	9.36E-06	1.13E+03	4.20E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.36E-07	0.00E+00	0.00E+00	4.08E-06	0.00E+00	5.12E-08	0.00E+00	9.54E-06	2.04E-06	1.62E-05	2.40E-01	6.73E-05	2.40E+00	6.73E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E+00	mg/kg	1.00E+00			3.00E-01	NA	7.16E+00	7.16E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.52E-03	0.00E+00	0.00E+00	8.09E-04	NA	7.72E-02	0.00E+00	6.96E-03	1.49E-03	8.90E-02	8.50E+00	1.05E-02	2.55E+01	3.49E-03
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.17E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.89E-01	5.12E-01	5.15E-01	5.15E-01	1.51E-01	1.51E-01	2.47E-04	0.00E+00	1.01E-03	0.00E+00	0.00E+00	9.59E-04	0.00E+00	2.22E-03	0.00E+00	3.80E-03	8.15E-04	9.05E-03	2.00E-01	4.53E-02	3.30E-01	2.74E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.84E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.30E-02	0.00E+00	0.00E+00	3.08E-03	0.00E+00	2.97E-02	0.00E+00	9.13E-02	1.96E-02	1.77E-01	2.63E+02	6.72E-04	7.89E+02	2.24E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	9.41E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.45E-01	0.00E+00	8.09E-02	0.00E+00	0.00E+00	2.60E-02	0.00E+00	7.27E-02	0.00E+00	2.24E-01	4.79E-02	1.30E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							7.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	7.40E-03	1.04E-02	7.40E-02	1.04E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.72E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.34E-07	0.00E+00	0.00E+00	2.27E-06	0.00E+00	9.32E-09	0.00E+00	5.11E-06	1.10E-06	8.72E-06	4.58E+00	1.90E-06	9.16E+00	9.52E-07
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	2.14E-02	0.00E+00	0.00E+00	9.60E-04	0.00E+00	3.29E-04	0.00E+00	2.93E-03	6.27E-04	2.62E-02	2.10E-01	1.25E-01	2.10E+00	1.25E-02
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	5.34E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.44E-01	8.44E-01	1.84E-01	1.84E-01	4.99E-03	0.00E+00	4.59E-02	0.00E+00	0.00E+00	2.36E-02	0.00E+00	1.66E-01	0.00E+00	2.11E-01	4.53E-02	4.97E-01	1.60E+02	3.11E-03	3.20E+02	1.55E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	9.2E-05	2.5E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.1E-04	1.6E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.9E-02	2.9E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	6.0E-05	6.0E-06
**Aldrin/Dieldr

Table O-11
Tier 1 COPCs
EEQs and Hazard Indices for the Muskrat at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF
							-----------	-----------	-----------	-----------	-----Unitless-----	-----------	-----------		
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	8.28E-01	9.22E-01	9.22E-01
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	4.15E-01	1.49E-01	1.49E-01
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01		
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	3.92E-02	1.33E-02	1.33E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	NA	1.03E-01	1.03E-01
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	6.78E-01		
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	NA	1.01E-01	1.01E-01
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03							
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.20E-01	1.95E-01	1.95E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01		
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00						
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	6.57E-01	4.51E-01	4.51E-01

Chemical	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.34E-10	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-10	3.11E-10	2.34E-10	0.00E+00	0.00E+00	1.24E-08	1.00E-06	1.24E-02	1.00E-05	1.24E-03
2,4,6-Trinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06	1.04E-06	7.85E-06	0.00E+00	0.00E+00	3.73E-05	8.00E-01	4.66E-05	4.00E+00	9.31E-06
4,4'-DDE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	8.28E-05	8.00E-01	1.03E-04	4.00E+00	2.07E-05
4,4'-DDT	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-06	3.57E-06	8.03E-06	0.00E+00	0.00E+00	4.06E-05	8.00E-01	5.08E-05	4.00E+00	1.02E-05
Aldrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-08	0.00E+00	0.00E+00	0.00E+00	7.46E-08	2.00E-01	3.73E-07	1.00E+00	7.46E-08
alpha-Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-07	0.00E+00	0.00E+00	0.00E+00	6.15E-07	4.58E+00	1.34E-07	9.16E+00	6.71E-08
Aluminum	2.04E-01	7.10E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-01	1.25E-01	7.81E-01	0.00E+00	0.00E+00	7.29E+01	1.93E+00	3.77E+01	1.93E+01	3.77E+00
Antimony	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	1.30E-03	1.25E-01	1.04E-02	1.25E+00	1.04E-03
Aroclor 1242	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-06	0.00E+00	0.00E+00	0.00E+00	8.31E-06	6.85E-02	1.21E-04	6.85E-01	1.21E-05
Aroclor 1248	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-07	0.00E+00	0.00E+00	0.00E+00	1.08E-07	6.80E-02	1.58E-06	6.80E-01	1.58E-07
Aroclor 1254	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	3.67E-06	1.49E-05	0.00E+00	0.00E+00	3.85E-04	6.80E-02	5.66E-03	6.80E-01	5.66E-04
Aroclor 1260	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-07	0.00E+00	0.00E+00	0.00E+00	5.64E-07	6.80E-02	8.30E-06	6.80E-01	8.30E-07
Aroclor 1268	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	9.22E-01	0.00E+00	0.00E+00	0.00E+00	NA	3.22E+00	0.00E+00	3.22E+00	0.00E+00	0.00E+00	7.37E+00	5.10E+00	1.44E+00	1.98E+01	3.72E-01
Benzoic Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	1.83E+01	1.29E-04	1.83E+02	1.29E-05
Butylbenzyl phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	3.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	2.75E-03	1.43E-02	0.00E+00	0.00E+00	3.50E-02	1.00E+00	3.50E-02	1.00E+01	3.50E-03
Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-08	0.00E+00	0.00E+00	0.00E+00	5.44E-08	4.58E+00	1.19E-08	9.16E+00	5.94E-09
Chromium (trivalent)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-02	0.00E+00	0.00E+00	0.00E+00	6.31E-02	2.74E+03	2.30E-05	2.74E+04	2.30E-06
Chromium (hexavalent)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	8.96E-04	3.28E+00	2.73E-04	1.31E+01	6.82E-05
cis-Nonachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-07	0.00E+00	0.00E+00	0.00E+00	1.01E-07	4.58E+00	2.20E-08	9.16E+00	1.10E-08
Copper	1.38E-03	8.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-01	4.49E-02	1.74E-01	0.00E+00	0.00E+00	4.81E-01	1.17E+01	4.11E-02	1.51E+01	3.18E-02
Dieldrin	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	3.96E-06	1.62E-04	0.00E+00	0.00E+00	3.49E-04	2.00E-02	1.75E-02	2.00E-01	1.75E-03
Endrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-07	9.20E-02	1.16E-06	9.20E-01	1.16E-07
gamma-Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	0.00E+00	2.88E-06	4.58E+00	6.29E-07	9.16E+00	3.14E-07
Heptachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-08	0.00E+00	0.00E+00	0.00E+00	2.46E-08	1.00E-01	2.46E-07	1.00E+00	2.46E-08
Hexachlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	0.00E+00	2.45E-08	8.00E-02	3.07E-07	2.90E-01	8.46E-08
HMX	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.05E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-01	0.00E+00	0.00E+00	0.00E+00	7.99E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.54E-04	5.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-02	3.53E-02	9.91E-02	0.00E+00	0.00E+00	7.62E-01	8.00E+00	9.53E-02	8.00E+01	9.53E-03
Manganese	2.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-02	8.80E+01	3.01E-04	2.84E+02	9.33E-05
Mercury (inorganic)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.38E-03	NA	0.00E+00	0.00E+00	2.38E-03	1.32E+01	1.81E-04	3.96E+01	6.02E-05
Mercury (methyl)	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	NA	5.92E-03	NA	5.92E-03	0.00E+00	0.00E+00	1.37E-02	3.20E-02	4.27E-01	1.60E-01	8.54E-02
Mirex	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	4.10E-03	NA	0.00E+00	0.00E+00	4.10E-03	4.00E+01	1.02E-04	8.00E+01	5.12E-05
Nitrate	8.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	8.89E-02	5.07E+02	1.75E-04	1.13E+03	7.87E-05
Nitrate/Nitrite	7.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-03	5.07E+02	1.55E-05	1.13E+03	6.98E-06
Oxychlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-07	0.00E+00	0.00E+00	0.00E+00	1.76E-07	2.40E-01	7.33E-07	2.40E+00	7.33E-08
Pentachlorophenol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.74E-01	0.00E+00	0.00E+00	0.00E+00	1.74E-01	8.50E+00	2.05E-02	2.55E+01	6.83E-03
Selenium	3.63E-04	8.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-02	1.08E-02	2.21E-02	0.00E+00	0.00E+00	6.43E-02	2.00E-01	3.21E-01	3.30E-01	1.95E-01
Silver	0.00E+00	1.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-02	0.00E+00	1.49E-02	0.00E+00	0.00E+00	4.82E-02	1.90E+01	2.53E-03	5.70E+01	8.45E-04
Strontium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-02	0.00E+00	0.00E+00	0.00E+00	6.81E-02	2.63E+02	2.59E-04	7.89E+02	8.63E-05
Sulfate	1.38E+00	4.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-02	4.50E-01	6.99E-02	0.00E+00	0.00E+00	2.02E+00	NA	NA	NA	NA
Thallium	1.65E-04	4.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-03	7.40E-03	6.76E-01	7.40E-02	6.76E-02
trans-Nonachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	1.06E-07	4.58E+00	2.32E-08	9.16E+00	1.16E-08
Vanadium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-04	0.00E+00	0.00E+00	0.00E+00	7.45E-04	2.10E-01	3.55E-03	2.10E+00	3.55E-04
Zinc	8.52E-03	6.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E+00	4.03E-01	2.04E+00	0.00E+00	0.00E+00	5.14E+00	1.60E+02	3.21E-02	3.20E+02	1.61E-02

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.1E-06	4.3E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-04	4.0E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	5.8E-03	5.8E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.3E-04	1.3E-05
Aldrin/Dieldrin/Endrin EEQ:	1.7E-02	1.7E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR}\left[\sum_{i=1}^{m}\left(\frac{IRi\,x\,Cij}{BW}\right)\right]\right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): [n] See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Factor	Value	Units
Terrestrial plant diet fraction =	0.1	unitless
Aquatic plant diet fraction =	0.45	unitless
Plant root diet fraction =	0.45	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0080934	kg/d
Food ingestion rate =	0.0861	kg/d
Body weight =	1.174	kg
Home range =	0.1186101	acres
Water intake rate =	0.114	L/d
Site Area =	246	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-12
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Muskrat at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.80E-10	8.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-10	2.10E-10	1.62E-10	0.00E+00	0.00E+00	9.97E-09	1.00E-06	9.97E-03	1.00E-05	9.97E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-06	3.09E-07	2.36E-06	0.00E+00	0.00E+00	2.27E-05	8.00E-01	2.84E-05	4.00E+00	5.67E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-05	8.00E-01	1.78E-05	4.00E+00	3.56E-06
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-06	1.02E-06	2.41E-06	0.00E+00	0.00E+00	2.39E-05	8.00E-01	2.98E-05	4.00E+00	5.96E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	4.92E-08	2.00E-01	2.46E-07	1.00E+00	4.92E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-08	0.00E+00	0.00E+00	0.00E+00	8.78E-08	4.58E+00	1.92E-08	9.16E+00	9.58E-09
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.68E-01	6.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	7.75E-02	4.44E-01	0.00E+00	0.00E+00	6.30E+01	1.93E+00	3.27E+01	1.93E+01	3.27E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	6.47E-04	1.25E-01	5.17E-03	1.25E+00	5.17E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-07	0.00E+00	0.00E+00	0.00E+00	3.63E-07	6.85E-02	5.29E-06	6.85E-01	5.29E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-08	0.00E+00	0.00E+00	0.00E+00	7.83E-08	6.80E-02	1.15E-06	6.80E-01	1.15E-07
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-06	1.14E-06	4.96E-06	0.00E+00	0.00E+00	3.01E-04	6.80E-02	4.42E-03	6.80E-01	4.42E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-08	0.00E+00	0.00E+00	0.00E+00	6.94E-08	6.80E-02	1.02E-06	6.80E-01	1.02E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	8.14E-01	0.00E+00	0.00E+00	0.00E+00	NA	2.84E+00	0.00E+00	2.84E+00	0.00E+00	0.00E+00	6.50E+00	5.10E+00	1.28E+00	1.98E+01	3.28E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	1.83E+01	7.56E-05	1.83E+02	7.58E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	8.58E-01	6.72E-01	6.72E-01	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	2.66E-03	1.37E-02	0.00E+00	0.00E+00	3.34E-02	1.00E+00	3.34E-02	1.00E+01	3.34E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	1.09E-08	4.58E+00	2.38E-09	9.16E+00	1.19E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	0.00E+00	5.14E-03	2.74E+03	1.88E-06	2.74E+04	1.88E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	7.29E-05	3.28E+00	2.22E-05	1.31E+01	5.55E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	1.89E-08	4.58E+00	4.12E-09	9.16E+00	2.06E-09
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	4.57E-01	8.97E-02	8.97E-02	1.19E-03	7.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-01	4.38E-02	1.63E-01	0.00E+00	0.00E+00	4.46E-01	1.17E+01	3.82E-02	1.51E+01	2.95E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-06	4.90E-08	2.04E-06	0.00E+00	0.00E+00	2.18E-05	2.00E-02	1.09E-03	2.00E-01	1.09E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-08	0.00E+00	0.00E+00	0.00E+00	6.66E-08	9.20E-02	7.24E-07	9.20E-01	7.24E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-07	0.00E+00	0.00E+00	0.00E+00	3.69E-07	4.58E+00	8.07E-08	9.16E+00	4.03E-08
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-08	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.00E-01	1.57E-07	1.00E+00	1.57E-08
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-08	0.00E+00	0.00E+00	0.00E+00	1.79E-08	8.00E-02	2.24E-07	2.90E-01	6.19E-08
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-01	0.00E+00	0.00E+00	0.00E+00	7.26E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	4.37E-02	1.16E-02	1.16E-02	6.08E-04	4.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-02	2.99E-02	8.62E-02	0.00E+00	0.00E+00	6.15E-01	8.00E+00	7.68E-02	8.00E+01	7.68E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-02	8.80E+01	2.34E-04	2.84E+02	7.25E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.77E-03	NA	0.00E+00	0.00E+00	1.77E-03	1.32E+01	1.34E-04	3.96E+01	4.46E-05
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	7.56E-01			0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	NA	5.21E-03	NA	5.21E-03	0.00E+00	0.00E+00	1.19E-02	3.20E-02	3.71E-01	1.60E-01	7.41E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	NA	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.91E-03	NA	0.00E+00	0.00E+00	3.91E-03	4.00E+01	9.76E-05	8.00E+01	4.88E-05
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	0.00E+00	4.71E-02	5.07E+02	9.28E-05	1.13E+03	4.17E-05
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03	5.07E+02	1.18E-05	1.13E+03	5.31E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	1.02E-07	2.40E-01	4.26E-07	2.40E+00	4.26E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.27E-01	0.00E+00	0.00E+00	0.00E+00	1.27E-01	8.50E+00	1.49E-02	2.55E+01	4.98E-03
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.12E-01	1.51E-01	1.51E-01	3.13E-04	7.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-02	7.87E-03	1.86E-02	0.00E+00	0.00E+00	5.30E-02	2.00E-01	2.65E-01	3.30E-01	1.61E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	9.47E-04	0.00E+00	0.00E+00	1.60E-02	1.90E+01	8.43E-04	5.70E+01	2.81E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-02	0.00E+00	0.00E+00	0.00E+00	3.79E-02	2.63E+02	1.44E-04	7.89E+02	4.80E-05
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.07E+00	3.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-02	1.79E-01	3.18E-02	0.00E+00	0.00E+00	1.34E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							9.73E-05	4.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03	7.40E-03	5.93E-01	7.40E-02	5.93E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	1.93E-08	4.58E+00	4.21E-09	9.16E+00	2.10E-09
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	6.29E-04	2.10E-01	3.00E-03	2.10E+00	3.00E-04
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.15E-01	1.84E-01	1.84E-01	6.31E-03	5.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E+00	3.86E-01	1.84E+00	0.00E+00	0.00E+00	4.60E+00	1.60E+02	2.87E-02	3.20E+02	1.44E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.7E-07	7.1E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.6E-05	1.5E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.4E-03	4.4E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	7.6E-05	7.6E-06
**Aldrin/Dieldrin/Endrin EEQ

Table O-13
BERA Tier 1 COPCs
EEQs and Hazard Indices for the River Otter at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.35E-10	3.25E-10	0.00E+00	2.11E-05	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-10	2.11E-05	1.00E-06	2.11E+01	1.00E-05	2.11E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	6.20E-07	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-06	3.26E-06	8.00E-01	4.07E-06	4.00E+00	8.14E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	1.45E-05	8.00E-01	1.81E-05	4.00E+00	3.62E-06
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	6.34E-07	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06	1.28E-05	8.00E-01	1.60E-05	4.00E+00	3.21E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-06	1.39E-06	2.00E-01	6.93E-06	1.00E+00	1.39E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-06	1.92E-06	4.58E+00	4.19E-07	9.16E+00	2.10E-07
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.73E-02	2.14E+00	0.00E+00	1.30E-01	3.71E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-02	3.95E+01	1.93E+00	2.05E+01	1.93E+01	2.05E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	3.36E-04	1.25E-01	2.69E-03	1.25E+00	2.69E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	6.41E-06	6.85E-02	9.36E-05	6.85E-01	9.36E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-06	1.34E-06	6.80E-02	1.97E-05	6.90E-01	1.94E-06
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	8.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-05	9.54E-04	6.80E-02	1.40E-02	6.90E-01	1.38E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	2.60E-05	6.80E-02	3.83E-04	6.90E-01	3.77E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.79E-02	0.00E+00	0.00E+00	4.82E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-01	5.10E+00	1.00E-01	1.98E+01	2.58E-02	
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	6.64E-04	0.00E+00	0.00E+00	5.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-01	1.83E+01	2.96E-02	1.83E+02	2.97E-03	
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	1.09E-04	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	3.76E-03	1.00E+00	3.76E-03	1.00E+01	3.76E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-07	1.70E-07	4.58E+00	3.71E-08	9.16E+00	1.86E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	4.79E-03	2.74E+03	1.75E-06	2.74E+04	1.75E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05	6.80E-05	3.28E+00	2.07E-05	1.31E+01	5.17E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-07	3.14E-07	4.58E+00	6.86E-08	9.16E+00	3.43E-08
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	3.87E-04	2.64E-03	0.00E+00	1.21E+00	5.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	1.27E+00	1.17E+01	1.08E-01	1.51E+01	8.37E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	6.25E-07	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-07	1.49E-05	2.00E-02	7.43E-04	2.00E-01	7.43E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-07	3.71E-07	9.20E-02	4.03E-06	9.20E-01	4.03E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-06	8.99E-06	4.58E+00	1.96E-06	9.16E+00	9.82E-07
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-07	1.95E-07	1.00E-01	1.95E-06	1.00E+00	1.95E-07
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-07	1.64E-07	8.00E-02	2.04E-06	2.90E-01	5.64E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	8.59E-02	0.00E+00	0.00E+00	4.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-02	4.55E+01	NA	NA	NA	NA	
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.12E-04	1.60E-02	0.00E+00	1.68E-01	1.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	2.01E-01	8.00E+00	2.52E-02	8.00E+01	2.52E-03	
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.46E-03	0.00E+00	0.00E+00	7.88E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E+00	8.80E+01	8.96E-02	2.84E+02	2.78E-02	
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-05	6.57E-05	1.00E+00	6.57E-05	3.00E+00	2.19E-05	
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	5.51E-05	0.00E+00	0.00E+00	1.59E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	1.50E-02	1.43E-02	2.50E-02	8.57E-03	
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00		
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	7.19E-04	4.00E+01	1.80E-05	8.00E+01	8.99E-06	
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.42E-02	0.00E+00	0.00E+00	1.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	1.37E+01	5.07E+02	2.70E-02	1.13E+03	1.21E-02	
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.22E-03	0.00E+00	0.00E+00	1.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	5.07E+02	2.47E-03	1.13E+03	1.11E-03	
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-07	6.62E-07	2.40E-01	2.76E-06	2.40E+00	2.76E-07	
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00	
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-04	4.82E-04	8.50E+00	5.67E-05	2.55E+01	1.89E-05	
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	1.02E-04	2.69E-04	0.00E+00	1.11E-02	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	1.65E-02	2.00E-01	8.25E-02	3.30E-01	5.00E-02	
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	5.54E-04	0.00E+00	0.00E+00	9.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	1.90E+01	5.34E-04	5.70E+01	1.78E-04	
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-03	3.53E-03	2.63E+02	1.34E-05	7.89E+02	4.48E-06	
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.89E-01	1.26E-03	0.00E+00	2.19E+02	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-02	2.20E+02	NA	NA	NA	NA	
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							4.65E-05	1.46E-04	0.00E+00	3.90E-01	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-01	7.40E-03	5.31E+01	7.40E-02	5.31E+00	
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-07	3.31E-07	4.58E+00	7.24E-08	9.16E+00	3.62E-08	
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	1.21E-04	2.10E-01	5.74E-04	2.10E+00	5.74E-05	
Zinc	8.78E-02	mg/L	9.41E+01

Table O-14
BERA Tier 2 COPCs
EEQs and Hazard Indices for the River Otter at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.41E-10	1.95E-10	0.00E+00	1.72E-06	3.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-10	1.72E-06	1.00E-06	1.72E+00	1.00E-05	1.72E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	3.93E-07	0.00E+00	0.00E+00	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-07	1.81E-06	8.00E-01	2.26E-06	4.00E+00	4.52E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06	7.96E-06	8.00E-01	9.95E-06	4.00E+00	1.99E-06
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	4.02E-07	0.00E+00	0.00E+00	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-06	5.61E-06	8.00E-01	7.02E-06	4.00E+00	1.40E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-07	7.16E-07	2.00E-01	3.58E-06	1.00E+00	7.16E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-07	6.65E-07	4.58E+00	1.45E-07	9.16E+00	7.26E-08
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.49E-02	1.38E+00	0.00E+00	7.92E-02	2.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-02	2.54E+01	1.93E+00	1.32E+01	1.93E+01	1.32E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	1.56E-04	1.25E-01	1.25E-03	1.25E+00	1.25E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06	3.06E-06	6.85E-02	4.46E-05	6.85E-01	4.46E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-07	6.60E-07	6.80E-02	9.71E-06	6.90E-01	9.57E-07
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	6.46E-06	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	1.35E-04	6.80E-02	1.99E-03	6.90E-01	1.96E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	1.46E-05	6.80E-02	2.14E-04	6.90E-01	2.11E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.82E-02	0.00E+00	0.00E+00	3.14E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-01	5.10E+00	6.52E-02	1.98E+01	1.68E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	2.88E-04	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	1.83E+01	5.94E-03	1.83E+02	5.95E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	7.44E-05	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	3.97E-04	1.00E+00	3.97E-04	1.00E+01	3.97E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-08	8.27E-08	4.58E+00	1.80E-08	9.16E+00	9.02E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-04	8.54E-04	2.74E+03	3.12E-07	2.74E+04	3.12E-08
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	1.21E-05	3.28E+00	3.70E-06	1.31E+01	9.23E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-07	1.43E-07	4.58E+00	3.12E-08	9.16E+00	1.56E-08
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	2.47E-04	1.67E-03	0.00E+00	1.45E-01	9.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04	1.58E-01	1.17E+01	1.35E-02	1.51E+01	1.04E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	3.95E-07	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07	9.35E-06	2.00E-02	4.68E-04	2.00E-01	4.68E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-07	2.38E-07	9.20E-02	2.59E-06	9.20E-01	2.59E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-06	2.80E-06	4.58E+00	6.11E-07	9.16E+00	3.06E-07
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-08	9.64E-08	1.00E-01	9.64E-07	1.00E+00	9.64E-08
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-08	7.98E-08	8.00E-02	9.98E-07	2.90E-01	2.75E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	5.41E-02	0.00E+00	0.00E+00	7.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	7.21E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.26E-04	9.18E-03	0.00E+00	2.98E-02	7.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04	4.80E-02	8.00E+00	6.00E-03	8.00E+01	6.00E-04
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.28E-03	0.00E+00	0.00E+00	5.64E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-01	8.80E+01	6.46E-03	2.84E+02	2.00E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	2.47E-05	1.00E+00	2.47E-05	3.00E+00	8.24E-06
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	3.21E-05	0.00E+00	0.00E+00	9.26E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.25E-04	1.50E-02	8.31E-03	2.50E-02	4.99E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-04	4.29E-04	4.00E+01	1.07E-05	8.00E+01	5.36E-06
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.48E-03	0.00E+00	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	1.52E+00	5.07E+02	2.99E-03	1.13E+03	1.34E-03
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.25E-03	0.00E+00	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-01	5.07E+02	3.93E-04	1.13E+03	1.76E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-07	2.64E-07	2.40E-01	1.10E-06	2.40E+00	1.10E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	1.39E-04	8.50E+00	1.63E-05	2.55E+01	5.43E-06
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	6.51E-05	1.69E-04	0.00E+00	7.04E-03	2.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	1.04E-02	2.00E-01	5.19E-02	3.30E-01	3.15E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	3.15E-04	0.00E+00	0.00E+00	5.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03	1.90E+01	3.03E-04	5.70E+01	1.01E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-03	1.61E-03	2.63E+02	6.13E-06	7.89E+02	2.04E-06
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.22E-01	7.05E-04	0.00E+00	3.53E+01	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-03	3.55E+01	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.02E-05	9.56E-05	0.00E+00	8.00E-04	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	7.40E-03	3.47E-01	7.40E-02	3.47E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-07	1.46E-07	4.58E+00	3.19E-08	9.16E+00	1.59E-08
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	7.73E-05	2.10E-01	3.68E-04	2.10E+00	3.68E-05
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.

Table O-15
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Deer Mouse at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-09	1.00E-06	4.53E-03	1.00E-05	4.53E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	8.00E-01	1.32E-05	4.00E+00	2.65E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-04	8.00E-01	1.06E-03	4.00E+00	2.11E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	8.00E-01	4.55E-05	4.00E+00	9.10E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-07	2.00E-01	3.81E-06	1.00E+00	7.62E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06	4.58E+00	1.37E-06	9.16E+00	6.85E-07
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	3.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+00	1.93E+00	8.30E-01	1.93E+01	8.30E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-02	1.25E-01	1.06E-01	1.25E+00	1.06E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	6.85E-02	1.24E-03	6.85E-01	1.24E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-06	6.80E-02	1.62E-05	6.80E-01	1.62E-06
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	6.80E-02	5.51E-04	6.80E-01	5.51E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-06	6.80E-02	8.47E-05	6.80E-01	8.47E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03	1.83E+01	2.09E-04	1.83E+02	2.09E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-02	1.00E+00	2.81E-02	1.00E+01	2.81E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-07	4.58E+00	1.21E-07	9.16E+00	6.06E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-01	2.74E+03	2.35E-04	2.74E+04	2.35E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-03	3.28E+00	2.79E-03	1.31E+01	6.96E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-06	4.58E+00	2.24E-07	9.16E+00	1.12E-07
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-01	1.17E+01	3.93E-02	1.51E+01	3.04E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	2.00E-02	2.02E-03	2.00E-01	2.02E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	9.20E-02	1.18E-05	9.20E-01	1.18E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	4.58E+00	6.41E-06	9.16E+00	3.21E-06
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-07	1.00E-01	2.51E-06	1.00E+00	2.51E-07
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-07	8.00E-02	3.13E-06	2.90E-01	8.63E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.96E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-01	8.00E+00	4.52E-02	8.00E+01	4.52E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-02	8.80E+01	4.90E-04	2.84E+02	1.52E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-02	1.32E+01	1.84E-03	3.96E+01	6.15E-04
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	4.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-02	4.00E+01	1.05E-03	8.00E+01	5.23E-04
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-01	5.07E+02	3.34E-04	1.13E+03	1.50E-04
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	5.07E+02	2.53E-05	1.13E+03	1.13E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-06	2.40E-01	7.48E-06	2.40E+00	7.48E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.78E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E+00	8.50E+00	2.09E-01	2.55E+01	6.97E-02
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-01	2.00E-01	5.52E-01	3.30E-01	3.34E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-01	2.63E+02	2.64E-03	7.89E+02	8.80E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E+00	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	7.40E-03	3.63E-02	7.40E-02	3.63E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-06	4.58E+00	2.36E-07	9.16E+00	1.18E-07
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-03	2.10E-01	3.62E-02	2.10E+00	3.62E-03
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.

Table O-16
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Deer Mouse at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	1.93E-09	1.00E-06	1.93E-03	1.00E-05	1.93E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	0.00E+00	1.87E-06	8.00E-01	2.34E-06	4.00E+00	4.68E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	8.62E-05	8.00E-01	1.08E-04	4.00E+00	2.16E-05
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	6.20E-06	8.00E-01	7.75E-06	4.00E+00	1.55E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-07	0.00E+00	0.00E+00	0.00E+00	2.98E-07	2.00E-01	1.49E-06	1.00E+00	2.98E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-07	0.00E+00	0.00E+00	0.00E+00	5.31E-07	4.58E+00	1.16E-07	9.16E+00	5.80E-08
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.62E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-01	0.00E+00	0.00E+00	0.00E+00	6.31E-01	1.93E+00	3.27E-01	1.93E+01	3.27E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-03	0.00E+00	0.00E+00	0.00E+00	3.91E-03	1.25E-01	3.13E-02	1.25E+00	3.13E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	0.00E+00	2.19E-06	6.85E-02	3.20E-05	6.85E-01	3.20E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-07	0.00E+00	0.00E+00	0.00E+00	4.74E-07	6.80E-02	6.97E-06	6.80E-01	6.97E-07
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	6.88E-06	6.80E-02	1.01E-04	6.80E-01	1.01E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-07	0.00E+00	0.00E+00	0.00E+00	4.20E-07	6.80E-02	6.18E-06	6.80E-01	6.18E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	1.83E+01	7.29E-05	1.83E+02	7.30E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02	0.00E+00	0.00E+00	0.00E+00	1.61E-02	1.00E+00	1.61E-02	1.00E+01	1.61E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-08	0.00E+00	0.00E+00	0.00E+00	6.60E-08	4.58E+00	1.44E-08	9.16E+00	7.21E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-02	0.00E+00	0.00E+00	0.00E+00	3.11E-02	2.74E+03	1.14E-05	2.74E+04	1.14E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	4.41E-04	3.28E+00	1.34E-04	1.31E+01	3.36E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	1.14E-07	4.58E+00	2.49E-08	9.16E+00	1.25E-08
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-01	0.00E+00	0.00E+00	0.00E+00	2.66E-01	1.17E+01	2.28E-02	1.51E+01	1.76E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-07	0.00E+00	0.00E+00	0.00E+00	2.96E-07	2.00E-02	1.48E-05	2.00E-01	1.48E-06
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-07	0.00E+00	0.00E+00	0.00E+00	4.03E-07	9.20E-02	4.38E-06	9.20E-01	4.38E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	2.23E-06	4.58E+00	4.88E-07	9.16E+00	2.44E-07
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-08	0.00E+00	0.00E+00	0.00E+00	9.53E-08	1.00E-01	9.53E-07	1.00E+00	9.53E-08
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	1.09E-07	8.00E-02	1.36E-06	2.90E-01	3.74E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E+00	0.00E+00	0.00E+00	0.00E+00	3.07E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-01	0.00E+00	0.00E+00	0.00E+00	1.81E-01	8.00E+00	2.27E-02	8.00E+01	2.27E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.98E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	6.19E-07	0.00E+00	0.00E+00	0.00E+00	1.98E-02	8.80E+01	2.26E-04	2.84E+02	6.99E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.07E-02	0.00E+00	0.00E+00	0.00E+00	1.07E-02	1.32E+01	8.10E-04	3.96E+01	2.70E-04
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.36E-02	0.00E+00	0.00E+00	0.00E+00	2.36E-02	4.00E+01	5.91E-04	8.00E+01	2.95E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-03	0.00E+00	0.00E+00	0.00E+00	5.25E-02	5.07E+02	1.04E-04	1.13E+03	4.65E-05
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-03	5.07E+02	1.14E-05	1.13E+03	5.12E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-07	0.00E+00	0.00E+00	0.00E+00	6.19E-07	2.40E-01	2.58E-06	2.40E+00	2.58E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	7.68E-01	0.00E+00	0.00E+00	0.00E+00	7.68E-01	8.50E+00	9.04E-02	2.55E+01	3.01E-02
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-02	0.00E+00	0.00E+00	0.00E+00	4.79E-02	2.00E-01	2.40E-01	3.30E-01	1.45E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-01	0.00E+00	0.00E+00	0.00E+00	2.29E-01	2.63E+02	8.72E-04	7.89E+02	2.91E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+00	0.00E+00	0.00E+00	0.00E+00	2.12E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							9.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-05	7.40E-03	1.27E-02	7.40E-02	1.27E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-07	0.00E+00	0.00E+00	0.00E+00	1.17E-07	4.58E+00	2.55E-08	9.16E+00	1.27E-08
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	3.81E-03	2.10E-01	1.81E-02	2.10E+00	1.81E-03
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	6.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+00	0.00E+00	0.00E+00	0.00E+00	2.34E+00	1.60E+02	1.46E-02	3.20E+02	7.31E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.6E-06	4.3E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.2E-04	2.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.5E-04	1.5E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	7.3E-05	7.3E-06
**Aldrin/

Table O-17
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.72E-10	2.48E-10	0.00E+00	2.55E-06	5.43E-09	0.00E+00	7.89E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	4.72E-07	0.00E+00	0.00E+00	1.99E-07	0.00E+00	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-07	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	4.83E-07	0.00E+00	0.00E+00	8.12E-07	0.00E+00	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.19E-02	1.63E+00	0.00E+00	1.58E-02	7.36E+00	0.00E+00	2.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	8.10E-06	0.00E+00	0.00E+00	1.77E-04	0.00E+00	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.12E-02	0.00E+00	0.00E+00	9.57E-02	NA	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	4.85E-04	0.00E+00	0.00E+00	6.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-02	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	8.28E-01	9.22E-01	9.22E-01	0.00E+00	8.32E-05	0.00E+00	0.00E+00	6.66E-04	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	4.15E-01	1.49E-01	1.49E-01	2.83E-04	2.01E-03	0.00E+00	1.47E-01	1.06E-02	0.00E+00	5.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-01	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	4.76E-07	0.00E+00	0.00E+00	2.76E-06	0.00E+00	5.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.29E-02	0.00E+00	0.00E+00	5.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	3.92E-02	1.33E-02	1.33E-02	1.55E-04	1.22E-02	0.00E+00	2.04E-02	3.01E-03	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-02	NA	NA	NA	NA
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	5.46E-03	0.00E+00	0.00E+00	9.54E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-01	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	6.78E-01			0.00E+00	4.20E-05	0.00E+00	0.00E+00	3.15E-05	NA	2.00E-04	NA	0.00E+00	0.00E+00	0.00E+00	2.73E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	NA	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.77E-02	0.00E+00	0.00E+00	1.65E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+00	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.62E-03	0.00E+00	0.00E+00	1.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.20E-01	1.95E-01	1.95E-01	7.48E-05	2.05E-04	0.00E+00	1.34E-03	9.23E-04	0.00E+00	7.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	4.22E-04	0.00E+00	0.00E+00	1.90E-03	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.85E-01	9.61E-04	0.00E+00	2.66E+01	2.02E-03	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							3.40E-05	1.11E-04	0.00E+00	4.73E-02	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-02	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	6.57E-01	4.51E-01	4.51E-01	1.76E-03	1.49E-02	0.00E+00	7.67E-01	1.13E-01	0.00E+00	6.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-01	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.5930505	acres
Water intake rate =	0.112	L/d
Site Area =	246	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-18
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.40E-10	2.02E-10	0.00E+00	2.82E-07	9.43E-10	0.00E+00	5.47E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-07	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	4.06E-07	0.00E+00	0.00E+00	1.71E-07	0.00E+00	7.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-07	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	4.15E-07	0.00E+00	0.00E+00	6.97E-07	0.00E+00	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.46E-02	1.43E+00	0.00E+00	1.30E-02	6.42E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	6.67E-06	0.00E+00	0.00E+00	3.12E-05	0.00E+00	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	1.87E-02	0.00E+00	0.00E+00	8.44E-02	NA	9.59E-02	0.00E+00	0.00E+00	1.99E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	2.86E-04	0.00E+00	0.00E+00	1.78E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	8.58E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	4.57E-01	8.97E-02	8.97E-02	2.45E-04	1.72E-03	0.00E+00	2.38E-02	2.69E-03	0.00E+00	5.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-02	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	4.08E-07	0.00E+00	0.00E+00	2.37E-06	0.00E+00	6.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	5.37E-02	0.00E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	4.37E-02	1.16E-02	1.16E-02	1.25E-04	9.48E-03	0.00E+00	4.90E-03	2.14E-03	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02	NA	NA	NA	NA
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.24E-03	0.00E+00	0.00E+00	9.27E-02	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-02	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	7.56E-01			0.00E+00	3.31E-05	0.00E+00	0.00E+00	2.49E-05	NA	1.76E-04	NA	0.00E+00	0.00E+00	0.00E+00	2.34E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	NA	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.41E-03	0.00E+00	0.00E+00	2.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-01	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.24E-03	0.00E+00	0.00E+00	3.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.12E-01	1.51E-01	1.51E-01	6.45E-05	1.75E-04	0.00E+00	1.16E-03	7.88E-04	0.00E+00	6.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	3.25E-04	0.00E+00	0.00E+00	1.47E-03	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.20E-01	7.28E-04	0.00E+00	5.79E+00	3.06E-04	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.00E-05	9.88E-05	0.00E+00	1.31E-04	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.15E-01	1.84E-01	1.84E-01	1.30E-03	1.24E-02	0.00E+00	3.31E-01	2.39E-02	0.00E+00	6.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-01	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	11.21854	acres
Water intake rate =	0.112	L/d
Site Area =	246	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-19
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Bank Swallow at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.06E-09	3.67E-09	0.00E+00	0.00E+00	1.45E-06	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-06	1.40E-05	1.74E-01	1.40E-04	1.74E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	5.31E-05	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	2.80E-03	6.79E-02	2.80E-02	6.79E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	5.80E-02	2.31E-02	5.80E-01	2.31E-03
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	7.16E-06	0.00E+00	0.00E+00	2.17E-04	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	2.80E-03	2.45E-01	2.80E-02	2.45E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	2.14E+00	7.24E-05	1.07E+01	1.45E-05
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.03E-01	2.42E+01	0.00E+00	0.00E+00	1.97E+03	4.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+03	1.10E+02	1.82E+01	3.29E+02	6.07E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	4.10E-01	1.27E-03	1.23E+00	4.22E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	1.80E-01	6.03E-04	1.80E+00	6.03E-05
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	4.75E-02	4.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-02	1.80E-01	2.89E-01	1.80E+00	2.89E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	1.80E-01	7.58E-03	1.80E+00	7.58E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.15E-01	0.00E+00	0.00E+00	2.56E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E+01	2.08E+01	1.25E+00	4.17E+01	6.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	5.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-03	1.11E+00	5.24E-03	3.33E+00	1.75E-03
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	1.23E-03	0.00E+00	0.00E+00	1.78E-01	5.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-01	1.45E+00	1.27E-01	2.00E+01	9.23E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	2.14E+00	6.40E-06	1.07E+01	1.28E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	1.00E+00	1.63E-03	5.00E+00	3.26E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	2.14E+00	1.18E-05	1.07E+01	2.37E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	3.40E-03	2.98E-02	0.00E+00	0.00E+00	2.83E+00	5.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E+00	4.70E+01	6.21E-02	6.17E+01	4.73E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	7.39E-04	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-04	7.70E-02	1.00E-02	2.31E-01	3.33E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	3.00E-01	9.14E-05	9.00E-01	3.05E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	2.14E+00	3.39E-04	1.07E+01	6.78E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	9.20E-01	1.68E-05	2.76E+00	5.60E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	7.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.86E-03	1.80E-01	0.00E+00	0.00E+00	8.07E-01	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	1.13E+00	8.89E-01	1.13E+01	8.89E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	6.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-02	9.77E+02	6.70E-05	9.77E+03	6.70E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03	4.50E-01	1.05E-02	9.00E-01	5.26E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	6.23E-04	0.00E+00	0.00E+00	8.44E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.06E-03	6.40E-03	1.42E+00	6.40E-02	1.42E-01
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-01	7.74E+01	2.56E-03	1.07E+02	1.85E-03
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-01	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	6.73E+00	7.64E-06	6.73E+01	7.64E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-02	6.50E+01	3.00E-04	1.30E+02	1.50E-04
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	8.96E-04	3.04E-03	0.00E+00	0.00E+00	2.47E-01	8.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-01	1.80E+00	1.44E-01	5.40E+00	4.81E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	6.26E-03	0.00E+00	0.00E+00	5.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-01	5.44E+00	9.47E-02	5.44E+01	9.47E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-02	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.41E+00	1.42E-02	0.00E+00	0.00E+00	5.41E-01	9.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E+00	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							4.08E-04	1.65E-03	0.00E+00	0.00E+00	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	3.50E-01	3.90E-01	1.05E+00	1.30E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	2.14E+00	1.25E-05	1.07E+01	2.50E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	1.14E+01	9.26E-04	3.42E+01	3.09E-04
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	2.10E-02	2.21E-01	0.00E+00	0.00E+00	3.01E+01	1.73E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E+01	1.45E+01	2.11E+00	1.31E+02	2.33E-01

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.6E-04	9.4E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.4E-01	3.4E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.0E-01	3.0E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	5.2E-03	1.7E-03
Aldrin/Dieldrin/Endrin EEQ:	1.0E-02	3.4E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (

Table O-20
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Bank Swallow at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.68E-09	2.99E-09	0.00E+00	0.00E+00	2.52E-07	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-07	1.40E-05	4.58E-02	1.40E-04	4.58E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	6.02E-06	0.00E+00	0.00E+00	4.57E-05	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	2.80E-03	4.12E-02	2.80E-02	4.12E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04	5.80E-02	1.05E-02	5.80E-01	1.05E-03
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	6.15E-06	0.00E+00	0.00E+00	1.87E-04	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-04	2.80E-03	1.47E-01	2.80E-02	1.47E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	2.14E+00	2.58E-05	1.07E+01	5.15E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.15E-01	2.11E+01	0.00E+00	0.00E+00	1.72E+03	1.43E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E+03	1.10E+02	1.59E+01	3.29E+02	5.29E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	4.10E-01	6.19E-04	1.23E+00	2.06E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	1.80E-01	3.05E-04	1.80E+00	3.05E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	9.89E-05	0.00E+00	0.00E+00	8.34E-03	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	1.80E-01	5.75E-02	1.80E+00	5.75E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	1.80E-01	3.80E-03	1.80E+00	3.80E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0.00E+00	2.26E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+01	2.08E+01	1.10E+00	4.17E+01	5.49E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	1.11E+00	3.08E-03	3.33E+00	1.03E-03
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	1.14E-03	0.00E+00	0.00E+00	1.23E-02	5.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-02	1.45E+00	1.28E-02	2.00E+01	9.28E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	2.14E+00	3.20E-06	1.07E+01	6.40E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	1.00E+00	1.56E-03	5.00E+00	3.11E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.14E+00	5.54E-06	1.07E+01	1.11E-06
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	2.94E-03	2.55E-02	0.00E+00	0.00E+00	7.19E-01	5.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-01	4.70E+01	1.71E-02	6.17E+01	1.30E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	6.05E-06	0.00E+00	0.00E+00	6.34E-04	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	7.70E-02	8.46E-03	2.31E-01	2.82E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	3.00E-01	4.60E-05	9.00E-01	1.53E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	2.14E+00	1.08E-04	1.07E+01	2.17E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-06	9.20E-01	8.55E-06	2.76E+00	2.85E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.50E-03	1.41E-01	0.00E+00	0.00E+00	5.73E-01	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-01	1.13E+00	6.43E-01	1.13E+01	6.43E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-02	9.77E+02	5.20E-05	9.77E+03	5.20E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03	4.50E-01	8.77E-03	9.00E-01	4.38E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	4.91E-04	0.00E+00	0.00E+00	6.66E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-03	6.40E-03	1.12E+00	6.40E-02	1.12E-01
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-02	7.74E+00	5.39E-03	1.07E+02	3.90E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-01	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	6.73E+00	3.13E-06	6.73E+01	3.13E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	6.50E+01	4.62E-05	1.30E+02	2.31E-05
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	7.73E-04	2.59E-03	0.00E+00	0.00E+00	2.11E-01	7.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-01	1.80E+00	1.23E-01	5.40E+00	4.10E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	4.82E-03	0.00E+00	0.00E+00	3.92E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-01	5.44E+00	7.30E-02	5.44E+01	7.30E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.64E+00	1.08E-02	0.00E+00	0.00E+00	8.19E-02	1.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.40E-04	1.46E-03	0.00E+00	0.00E+00	1.19E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-01	3.50E-01	3.45E-01	1.05E+00	1.15E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	2.14E+00	5.65E-06	1.07E+01	1.13E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-03	1.14E+01	4.15E-04	3.42E+01	1.38E-04
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	1.56E-02	1.83E-01	0.00E+00	0.00E+00	6.41E+00	1.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E+00	1.45E+01	4.67E-01	1.31E+02	5.17E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.6E-04	3.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-01	2.0E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.2E-02	6.4E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	3.1E-03	1.0E-03
Aldrin/Dieldrin/Endrin EEQ:	8.5E-03	2.8E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{

Table O-21
BERA Tier 1 COPCs
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	8.59E-10	0.00E+00	1.20E-07	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	1.40E-05	1.84E+00	1.40E-04	1.84E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-05	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	2.80E-03	1.22E+00	2.80E-02	1.22E-01
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	3.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-02	5.80E-02	6.08E-01	5.80E-01	6.08E-02
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	7.81E-05	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02	2.80E-03	4.34E+00	2.80E-02	4.34E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03	2.14E+00	1.90E-03	1.07E+01	3.80E-04
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.10E-01	0.00E+00	9.48E+01	0.00E+00	0.00E+00	1.07E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E+02	1.10E+02	1.85E+00	3.29E+02	6.15E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.24E-02	0.00E+00	0.00E+00	3.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	4.10E-01	3.32E-02	1.23E+00	1.11E-02
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	1.80E-01	1.58E-02	1.80E+00	1.58E-03
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.27E-04	0.00E+00	0.00E+00	1.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-01	1.80E-01	6.33E-01	1.80E+00	6.33E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	3.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-02	1.80E-01	1.99E-01	1.80E+00	1.99E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	1.11E+00	2.19E-03	3.33E+00	7.29E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	5.18E-03	0.00E+00	0.00E+00	1.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-01	1.45E+00	9.69E-02	2.00E+01	7.03E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.36E-06	0.00E+00	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	2.14E+00	1.68E-04	1.07E+01	3.37E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.37E-06	0.00E+00	0.00E+00	4.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-01	1.00E+00	2.76E-01	5.00E+00	5.52E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.37E-06	0.00E+00	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	2.14E+00	3.11E-04	1.07E+01	6.22E-05
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	1.42E-03	0.00E+00	2.40E-01	0.00E+00	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	4.70E+01	3.72E-02	6.17E+01	2.83E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.22E-06	0.00E+00	0.00E+00	6.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	7.70E-02	8.10E-03	2.31E-01	2.70E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	4.88E-06	0.00E+00	0.00E+00	7.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	3.00E-01	2.40E-03	9.00E-01	8.01E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	1.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02	2.14E+00	8.90E-03	1.07E+01	1.78E-03
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.71E-06	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	9.20E-01	4.41E-04	2.76E+00	1.47E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-06	0.00E+00	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.14E-01	0.00E+00	2.16E+02	0.00E+00	0.00E+00	1.62E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	7.76E-04	0.00E+00	2.29E+00	0.00E+00	0.00E+00	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	9.77E+02	2.79E-05	9.77E+03	2.79E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	1.24E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-01	4.50E-01	2.98E-01	9.00E-01	1.49E-01
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.14E-01	0.00E+00	0.00E+00	5.18E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E+00	7.74E+00	6.84E-01	1.07E+02	4.95E-02
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.86E-02	0.00E+00	1.43E-02	0.00E+00	0.00E+00	1.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-01	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								8.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.20E-06	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	6.73E+00	2.01E-04	6.73E+01	2.01E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00	
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.64E-02	0.00E+00	0.00E+00	5.08E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-01	6.50E+01	8.54E-03	1.30E+02	4.27E-03
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	3.74E-04	0.00E+00	3.37E-02	0.00E+00	0.00E+00	2.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-01	1.80E+00	1.48E-01	5.40E+00	4.92E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.40E-01	0.00E+00	0.00E+00	9.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.42E+00	0.00E+00	2.25E+00	0.00E+00	0.00E+00	2.47E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	3.50E-01	4.86E-04	1.05E+00	1.62E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.61E-06	0.00E+00	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04	2.14E+00	3.28E-04	1.07E+01	6.56E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	3.26E-01	0.00E+00	0.00E+00	2.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-01	1.14E+01	5.28E-02	3.42E+01	1.76E-02
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	8.78E-03	0.00E+00	9.79E-01	0.00E+00	0.00E+00	4.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E+00	1.45E+01	3.79E-01	1.31E+02	4.20E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.2E-02	2.5E-03
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.2E+00	6.2E-01
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	8.8E-01	9.6E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.2E-03	7.3E-04
Aldrin/Dieldrin/Endrin EEQ:	1.1E-02	3.5E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A =

Table O-22
BERA Tier 2 COPCs
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	7.00E-10	0.00E+00	9.48E-08	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	1.40E-05	7.23E-01	1.40E-04	7.23E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	2.80E-03	6.01E-01	2.80E-02	6.01E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-02	5.80E-02	2.76E-01	5.80E-01	2.76E-02
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	5.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03	2.80E-03	2.06E+00	2.80E-02	2.06E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	2.14E+00	6.80E-04	1.07E+01	1.36E-04
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.73E-01	0.00E+00	9.05E+01	0.00E+00	0.00E+00	3.74E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+02	1.10E+02	1.17E+00	3.29E+02	3.89E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.06E-02	0.00E+00	0.00E+00	8.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-03	4.10E-01	1.64E-02	1.23E+00	5.45E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	1.80E-01	8.05E-03	1.80E+00	8.05E-04
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	5.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-02	1.80E-01	2.81E-01	1.80E+00	2.81E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	1.80E-01	1.00E-01	1.80E+00	1.00E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	1.11E+00	1.29E-03	3.33E+00	4.29E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	4.86E-03	0.00E+00	0.00E+00	1.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-01	1.45E+00	9.46E-02	2.00E+01	6.86E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.05E-06	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	2.14E+00	8.45E-05	1.07E+01	1.69E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.22E-01	0.00E+00	0.00E+00	4.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-01	1.00E+00	2.63E-01	5.00E+00	5.26E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.54E-06	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	2.14E+00	1.46E-04	1.07E+01	2.92E-05
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	1.23E-03	0.00E+00	2.25E-01	0.00E+00	0.00E+00	1.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E+00	4.70E+01	3.64E-02	6.17E+01	2.77E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.57E-06	0.00E+00	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	7.70E-02	3.97E-03	2.31E-01	1.32E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.26E-06	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	3.00E-01	1.21E-03	9.00E-01	4.05E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.93E-05	0.00E+00	0.00E+00	6.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03	2.14E+00	2.86E-03	1.07E+01	5.72E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.39E-06	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	9.20E-01	2.26E-04	2.76E+00	7.52E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.98E-06	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.68E-01	0.00E+00	2.04E+02	0.00E+00	0.00E+00	7.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	6.26E-04	0.00E+00	1.70E+00	0.00E+00	0.00E+00	3.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	1.13E+00	1.77E+00	1.13E+01	1.77E-01
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-02	9.77E+02	2.17E-05	9.77E+03	2.17E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	5.86E-03	0.00E+00	0.00E+00	1.03E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	4.50E-01	2.42E-01	9.00E-01	1.21E-01
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.07E-01	0.00E+00	0.00E+00	1.09E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E+00	7.74E+00	1.54E-01	1.07E+02	1.12E-02
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.70E-02	0.00E+00	1.17E-02	0.00E+00	0.00E+00	3.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-02	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								6.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.53E-06	0.00E+00	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	6.73E+00	8.26E-05	6.73E+01	8.26E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.72E-02	0.00E+00	0.00E+00	7.83E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01	6.50E+01	1.62E-03	1.30E+02	8.11E-04
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	3.23E-04	0.00E+00	2.54E-02	0.00E+00	0.00E+00	1.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-01	1.80E+00	1.19E-01	5.40E+00	3.97E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.16E-01	0.00E+00	0.00E+00	2.64E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-01	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.10E+00	0.00E+00	1.50E+00	0.00E+00	0.00E+00	4.31E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	3.50E-01	2.86E-04	1.05E+00	9.54E-05
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.62E-06	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	2.14E+00	1.49E-04	1.07E+01	2.98E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	3.06E-01	0.00E+00	0.00E+00	1.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-01	1.14E+01	3.77E-02	3.42E+01	1.26E-02
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	6.50E-03	0.00E+00	9.04E-01	0.00E+00	0.00E+00	4.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E+00	1.45E+01	3.50E-01	1.31E+02	3.88E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.1E-03	8.6E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.9E+00	2.9E-01
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.1E-01	4.4E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.3E-03	4.3E-04
Aldrin/Dieldrin/Endrin EEQ:	5.2E-03	1.7E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (

Table O-23
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	9.28E-10	1.09E-08	0.00E+00	1.79E-04	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	1.40E-05	1.28E+01	1.40E-04	1.28E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	2.80E-03	1.52E-02	2.80E-02	1.52E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	2.80E-03	3.95E-02	2.80E-02	3.95E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.27E-01	7.19E+01	0.00E+00	1.10E+00	8.10E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E+02	1.10E+02	8.05E+00	3.29E+02	2.68E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	1.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-02	1.80E-01	1.10E-01	1.80E+00	1.10E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.34E-01	0.00E+00	0.00E+00	1.05E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+01	2.08E+01	5.51E-01	4.17E+01	2.75E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.62E-03	0.00E+00	0.00E+00	4.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E+00	1.11E+00	4.15E+00	3.33E+00	1.38E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	3.66E-03	0.00E+00	0.00E+00	7.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-02	1.45E+00	5.30E-02	2.00E+01	3.84E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	1.53E-03	8.84E-02	0.00E+00	1.03E+01	1.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+01	4.70E+01	2.45E-01	6.17E+01	1.87E-01
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	7.70E-02	4.22E-03	2.31E-01	1.41E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.40E-01	0.00E+00	0.00E+00	3.85E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	8.39E-04	5.35E-01	0.00E+00	1.43E+00	3.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+00	3.85E+00	5.95E-01	1.16E+01	1.98E-01
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.95E-02	0.00E+00	0.00E+00	6.68E+01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E+01	9.77E+02	6.84E-02	9.77E+03	6.84E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	1.85E-03	0.00E+00	0.00E+00	3.47E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-03	6.40E-03	8.31E-01	6.40E-02	8.31E-02
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E+00	0.00E+00	1.07E+02	0.00E+00
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.58E-02	0.00E+00	0.00E+00	1.16E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+02	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								8.78E-03	0.00E+00	0.00E+00	1.06E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	4.04E-04	9.01E-03	0.00E+00	9.38E-02	1.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-01	4.40E-01	4.65E-01	1.50E+00	1.36E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	1.86E-02	0.00E+00	0.00E+00	2.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-01	5.44E+00	4.19E-02	5.44E+01	4.19E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.54E+00	4.23E-02	0.00E+00	1.86E+03	2.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E+03	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.84E-04	4.90E-03	0.00E+00	3.31E+00	5.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E+00	3.50E-01	9.62E+00	1.05E+00	3.21E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E+01	0.00E+00	3.42E+01	0.00E+00
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	9.49E-03	6.57E-01	0.00E+00	5.37E+01	1.24E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E+01	1.45E+01	4.60E+00	1.31E+02	5.10E-01

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.5E-02	5.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.1E-01	1.1E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.2E+00	1.4E+00
Aldrin/Dieldrin/Endrin EEQ:	4.2E-03	1.4E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Clj = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg

Table O-24
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.00E-10	1.18E-09	0.00E+00	2.63E-06	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-06	1.40E-05	1.89E-01	1.40E-04	1.89E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	2.37E-06	0.00E+00	0.00E+00	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06	2.80E-03	1.74E-03	2.80E-02	1.74E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	2.42E-06	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	2.80E-03	4.50E-03	2.80E-02	4.50E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.48E-02	8.32E+00	0.00E+00	1.21E-01	9.38E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E+02	1.10E+02	9.32E-01	3.29E+02	3.11E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	3.89E-05	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	1.80E-01	2.75E-03	1.80E+00	2.75E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.23E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E+00	2.08E+01	6.45E-02	4.17E+01	3.22E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	2.05E-04	0.00E+00	0.00E+00	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-01	1.11E+00	1.50E-01	3.33E+00	4.99E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	4.49E-04	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	1.45E+00	7.74E-04	2.00E+01	5.61E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	1.76E-04	1.00E-02	0.00E+00	2.21E-01	3.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-01	4.70E+01	5.76E-03	6.17E+01	4.39E-03
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	2.38E-06	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	7.70E-02	4.80E-04	2.31E-01	1.60E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.85E-02	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	8.98E-05	5.54E-02	0.00E+00	4.55E-02	3.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-01	3.85E+00	3.44E-02	1.16E+01	1.15E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.04E-03	0.00E+00	0.00E+00	8.61E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-01	9.77E+02	8.85E-04	9.77E+03	8.85E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	1.94E-04	0.00E+00	0.00E+00	3.63E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.57E-04	6.40E-03	8.70E-02	6.40E-02	8.70E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E+00	0.00E+00	1.07E+02	0.00E+00
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.75E-03	0.00E+00	0.00E+00	2.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E+00	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.87E-04	0.00E+00	0.00E+00	3.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	4.63E-05	1.02E-03	0.00E+00	1.07E-02	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-02	4.40E-01	5.30E-02	1.50E+00	1.55E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	1.90E-03	0.00E+00	0.00E+00	2.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-02	5.44E+00	4.28E-03	5.44E+01	4.28E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.58E-01	4.25E-03	0.00E+00	5.38E+01	4.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E+01	NA	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.44E-05	5.77E-04	0.00E+00	1.22E-03	6.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03	3.50E-01	2.37E-02	1.05E+00	7.91E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E+01	0.00E+00	3.42E+01	0.00E+00
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	9.33E-04	7.22E-02	0.00E+00	3.07E+00	3.50E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E+00	1.45E+01	2.41E-01	1.31E+02	2.67E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.2E-03	6.2E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.7E-03	2.7E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.5E-01	5.0E-02
Aldrin/Dieldrin/Endrin EEQ:	4.8E-04	1.6E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some B

Table O-25
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	4.88E-10	0.00E+00	5.62E-09	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-08	1.88E-09	1.14E-05	1.40E-05	8.18E-01	1.40E-04	8.18E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	6.76E-06	4.65E-05	2.80E-03	1.66E-02	2.80E-02	1.66E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	5.99E-05	4.14E-04	5.80E-02	7.14E-03	5.80E-01	7.14E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	3.35E-05	2.29E-04	2.80E-03	8.17E-02	2.80E-02	8.17E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	5.73E-06	3.95E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	7.94E-06	5.46E-05	2.14E+00	2.55E-05	1.07E+01	5.11E-06
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.19E-01	0.00E+00	4.44E+00	7.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E+00	2.12E-01	6.06E+00	1.10E+02	5.52E-02	3.29E+02	1.84E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03	1.39E-03	1.09E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	2.65E-05	1.82E-04	4.10E-01	4.45E-04	1.23E+00	1.48E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	5.54E-06	3.82E-05	1.80E-01	2.12E-04	1.80E+00	2.12E-05
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.99E-04	1.37E-03	1.80E-01	7.63E-03	1.80E+00	7.63E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04	1.08E-04	7.34E-04	1.80E-01	4.08E-03	1.80E+00	4.08E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	1.38E-03	0.00E+00	0.00E+00	2.95E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-01	1.11E+00	2.67E-01	3.33E+00	8.89E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.28E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03	1.23E-03	8.53E-03	1.45E+00	5.88E-03	2.00E+01	4.26E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	7.02E-07	4.83E-06	2.14E+00	2.26E-06	1.07E+01	4.52E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-01	2.01E-02	1.46E-01	1.00E+00	1.46E-01	5.00E+00	2.92E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	1.30E-06	8.94E-06	2.14E+00	4.18E-06	1.07E+01	8.36E-07
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.64E-01	4.15E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	8.05E-04	0.00E+00	1.12E-02	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-02	9.25E-03	7.30E-01	4.70E+01	1.55E-02	6.17E+01	1.18E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	1.26E-06	8.65E-06	7.70E-02	1.12E-04	2.31E-01	3.74E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-06	1.53E-06	1.05E-05	1.00E-02	1.05E-03	1.00E-01	1.05E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	3.72E-05	2.56E-04	2.14E+00	1.20E-04	1.07E+01	2.39E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06	8.04E-07	5.54E-06	9.20E-01	6.02E-06	2.76E+00	2.01E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-06	6.76E-07	4.65E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.79E-01	0.00E+00	1.01E+01	2.46E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-01	1.15E-01	3.57E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.41E-04	0.00E+00	1.07E-01	9.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-02	7.84E-03	2.52E-01	3.85E+00	6.53E-02	1.16E+01	2.18E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.55E-02	0.00E+00	0.00E+00	4.27E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E+00	9.77E+02	4.39E-03	9.77E+03	4.39E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	4.79E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.55E-03	2.71E-04	2.30E-03	4.50E-01	5.12E-03	9.00E-01	2.56E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.70E-02	2.97E-03	2.53E-02	7.74E+00	3.27E-03	1.07E+02	2.37E-04
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.04E-02	0.00E+00	6.72E-04	7.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	6.15E-04	7.46E+00	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.61E-03	0.00E+00	0.00E+00	6.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	2.73E-06	1.88E-05	6.73E+00	2.80E-06	6.73E+01	2.80E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.18E-03	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.14E-02	1.99E-03	1.56E-02	6.50E+01	2.39E-04	1.30E+02	1.20E-04
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	5.20E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	2.12E-04	0.00E+00	1.58E-03	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-03	1.70E-03	1.92E-02	4.40E-01	4.37E-02	1.50E+00	1.28E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-02	1.46E-02	1.14E-01	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.10E-01	0.00E+00	1.06E-01	1.19E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-01	9.65E-02	1.21E+02	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							9.66E-05	0.00E+00	0.00E+00	2.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-01	3.50E-01	6.05E-01	1.05E+00	2.02E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	1.37E-06	9.43E-06	2.14E+00	4.41E-06	1.07E+01	8.81E-07
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	1.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	4.98E-04	1.86E-02	1.14E+01	1.63E-03	3.42E+01	5.45E-04
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	4.99E-03	0.00E+00	4.59E-02	3.44E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-01	1.14E-01	4.25E+00	1.45E+01	2.93E-01	1.31E+02	3.25E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.6E-04	3.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-01	1.1E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.2E-02	1.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.7E-01	8.9E-02
Aldrin/Dieldrin/Endrin EEQ:	1.2E-03	1.4E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applic

Table O-26
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Industrial Sub-Area/Goose Prairie Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	3.98E-10	0.00E+00	4.45E-09	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-09	1.16E-09	1.28E-06	1.40E-05	9.12E-02	1.40E-04	9.12E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	3.20E-01	3.20E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.78E+00	2.78E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.37E+00	2.37E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	4.37E-06	3.03E-05	2.80E-03	1.08E-02	2.80E-02	1.08E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	8.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	4.46E-05	3.08E-04	5.80E-02	5.32E-03	5.80E-01	5.32E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	1.47E-05	1.02E-04	2.80E-03	3.63E-02	2.80E-02	3.63E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	4.01E-06	2.78E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	3.73E-06	2.58E-05	2.14E+00	1.21E-05	1.07E+01	2.41E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.83E-02	0.00E+00	4.24E+00	5.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-01	1.55E-01	5.44E+00	1.10E+02	4.96E-02	3.29E+02	1.65E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03	8.74E-04	7.31E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	1.71E-05	1.19E-04	4.10E-01	2.89E-04	1.23E+00	9.65E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	3.70E-06	2.56E-05	1.80E-01	1.42E-04	1.80E+00	1.42E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	7.14E-05	5.07E-04	1.80E-01	2.82E-03	1.80E+00	2.82E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	8.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	8.15E-05	5.57E-04	1.80E-01	3.10E-03	1.80E+00	3.10E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	8.12E-04	0.00E+00	0.00E+00	7.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-02	1.11E+00	7.27E-02	3.33E+00	2.42E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.58E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-03	8.44E-04	5.90E-03	1.45E+00	4.07E-03	2.00E+01	2.95E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-06	4.63E-07	3.21E-06	2.14E+00	1.50E-06	1.07E+01	3.00E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-02	4.85E-03	4.31E-02	1.00E+00	4.31E-02	5.00E+00	8.61E-03
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06	8.01E-07	5.56E-06	2.14E+00	2.60E-06	1.07E+01	5.19E-07
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	4.57E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	6.97E-04	0.00E+00	1.06E-02	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-02	5.22E-03	1.53E-01	4.70E+01	3.25E-03	6.17E+01	2.48E-03
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06	8.08E-07	5.60E-06	7.70E-02	7.27E-05	2.31E-01	2.42E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	1.33E-06	9.17E-06	1.00E-02	9.17E-04	1.00E-01	9.17E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	1.57E-05	1.09E-04	2.14E+00	5.08E-05	1.07E+01	1.02E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-06	5.40E-07	3.74E-06	9.20E-01	4.07E-06	2.76E+00	1.36E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06	4.47E-07	3.10E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.52E-01	0.00E+00	9.55E+00	5.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-01	9.24E-02	1.56E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.56E-04	0.00E+00	7.96E-02	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-02	5.10E-03	1.36E-01	3.85E+00	3.54E-02	1.16E+01	1.18E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.21E-02	0.00E+00	0.00E+00	4.15E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	8.45E-06	1.48E-06	1.02E-05	6.73E+00	1.52E-06	6.73E+01	1.52E-07
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	7.93E-04	1.38E-04	1.21E-03	4.50E-01	2.68E-03	9.00E-01	1.34E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	5.01E-03	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.38E-02	2.40E-03	2.12E-02	7.74E+00	2.74E-03	1.07E+02	1.98E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.67E-02	0.00E+00	5.49E-04	1.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	3.34E-04	1.14E+00	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								3.51E-03	0.00E+00	0.00E+00	1.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06	1.48E-06	1.02E-05	6.73E+00	1.52E-06	6.73E+01	1.52E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.27E-03	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	4.44E-03	7.76E-04	6.49E-03	6.50E+01	9.99E-05	1.30E+02	5.00E-05
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	5.12E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	1.83E-04	0.00E+00	1.19E-03	5.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-03	9.90E-04	1.32E-02	4.40E-01	3.00E-02	1.50E+00	8.81E-03
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-02	9.03E-03	7.55E-02	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.26E-01	0.00E+00	7.01E-02	2.59E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-01	4.27E-02	2.69E+01	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							5.70E-05	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	3.50E-01	1.84E-03	1.05E+00	6.14E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	8.17E-07	5.67E-06	2.14E+00	2.65E-06	1.07E+01	5.30E-07
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	4.33E-04	1.73E-02	1.14E+01	1.51E-03	3.42E+01	5.04E-04
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	7.47E-01	7.47E-01	1.84E-01	1.84E-01	3.70E-03	0.00E+00	4.24E-02	1.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-01	4.29E-02	1.82E+00	1.45E+01	1.25E-01	1.31E+02	1.39E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	7.4E-05	1.5E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.2E-02	5.2E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.3E-03	7.0E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	7.3E-02	2.4E-02
Aldrin/Dieldrin/Endrin EEQ:	9.9E-04	1.2E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not appl

Table O-27
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Deer Mouse at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	3.66E-09	0.00E+00	1.73E-08	0	0.00E+00	9.63E-06	0.00E+00	1.97E-09	0.00E+00	0.00E+00	0.00E+00	9.65E-06	1.00E-06	9.65E+00	1.00E-05	9.65E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.28E-06	0	0.00E+00	1.27E-03	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	1.28E-03	8.00E-01	1.60E-03	4.00E+00	3.21E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.38E-05	0	0.00E+00	1.32E-02	0.00E+00	5.23E-04	0.00E+00	0.00E+00	0.00E+00	1.37E-02	8.00E-01	1.72E-02	4.00E+00	3.43E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.13E-05	0	0.00E+00	4.54E-03	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	4.57E-03	8.00E-01	5.71E-03	4.00E+00	1.14E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.79E-06	0	0.00E+00	1.12E-03	0.00E+00	4.72E-07	0.00E+00	0.00E+00	0.00E+00	1.12E-03	2.00E-01	5.61E-03	1.00E+00	1.12E-03
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.86E-06	0	0.00E+00	1.52E-03	0.00E+00	3.89E-06	0.00E+00	0.00E+00	0.00E+00	1.53E-03	4.58E+00	3.34E-04	9.16E+00	1.67E-04
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.83E+00	0.00E+00	1.37E+01	0	0.00E+00	4.04E+01	0.00E+00	7.87E-01	0.00E+00	0.00E+00	0.00E+00	5.67E+01	1.93E+00	2.94E+01	1.93E+01	2.94E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.68E-03	0	0.00E+00	1.33E-01	0.00E+00	8.20E-03	0.00E+00	0.00E+00	0.00E+00	1.46E-01	1.25E-01	1.17E+00	1.25E+00	1.17E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.29E-05	0	0.00E+00	5.09E-03	0.00E+00	5.25E-05	0.00E+00	0.00E+00	0.00E+00	5.16E-03	6.85E-02	7.53E-02	6.85E-01	7.53E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.69E-06	0	0.00E+00	1.06E-03	0.00E+00	6.80E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-03	6.80E-02	1.57E-02	6.80E-01	1.57E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.05E-04	0	0.00E+00	4.25E-02	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	4.27E-02	6.80E-02	6.27E-01	6.80E-01	6.27E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.14E-05	0	0.00E+00	1.34E-02	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	1.34E-02	6.80E-02	1.97E-01	6.80E-01	1.97E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	7.46E-04	0.00E+00	7.48E-04	0	0.00E+00	5.09E-02	0.00E+00	1.74E-02	0.00E+00	0.00E+00	0.00E+00	6.98E-02	1.00E+00	6.98E-02	1.00E+01	6.98E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.41E-07	0	0.00E+00	1.34E-04	0.00E+00	3.44E-07	0.00E+00	0.00E+00	0.00E+00	1.35E-04	4.58E+00	2.95E-05	9.16E+00	1.48E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	3.32E-02	0	0.00E+00	1.58E-02	0.00E+00	3.99E-01	0.00E+00	0.00E+00	0.00E+00	4.48E-01	3.28E+00	1.37E-01	2.74E+04	1.64E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.72E-04	0	0.00E+00	2.24E-04	0.00E+00	5.66E-03	0.00E+00	0.00E+00	0.00E+00	6.36E-03	3.28E+00	1.94E-03	2.74E+03	2.32E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.31E-07	0	0.00E+00	2.49E-04	0.00E+00	6.36E-07	0.00E+00	0.00E+00	0.00E+00	2.50E-04	4.58E+00	5.46E-05	9.16E+00	2.73E-05
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	3.54E-03	0.00E+00	3.47E-02	0	0.00E+00	5.66E-01	0.00E+00	2.84E-01	0.00E+00	0.00E+00	0.00E+00	8.88E-01	1.17E+01	7.59E-02	1.51E+01	5.87E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.10E-07	0	0.00E+00	2.33E-04	0.00E+00	2.50E-05	0.00E+00	0.00E+00	0.00E+00	2.59E-04	2.00E-02	1.29E-02	2.00E-01	1.29E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	7.05E-07	0	0.00E+00	2.69E-04	0.00E+00	6.74E-07	0.00E+00	0.00E+00	0.00E+00	2.70E-04	9.20E-02	2.94E-03	9.20E-01	2.94E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.81E-05	0	0.00E+00	7.11E-03	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	7.15E-03	4.58E+00	1.56E-03	9.16E+00	7.81E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.91E-07	0	0.00E+00	1.52E-04	0.00E+00	1.55E-07	0.00E+00	0.00E+00	0.00E+00	1.52E-04	1.00E-01	1.52E-03	1.00E+00	1.52E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.28E-07	0	0.00E+00	1.27E-04	0.00E+00	1.55E-07	0.00E+00	0.00E+00	0.00E+00	1.28E-04	8.00E-02	1.60E-03	2.90E-01	4.41E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.79E+00	0.00E+00	3.12E+01	0	0.00E+00	6.08E+01	0.00E+00	3.12E+00	0.00E+00	0.00E+00	0.00E+00	9.69E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.55E-03	0.00E+00	3.30E-01	0	NA	1.53E-01	NA	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.08E-01	8.00E+00	8.85E-02	8.00E+01	8.85E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.36E-01	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	8.80E+01	1.55E-03	2.84E+02	4.80E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.48E-03	0	0.00E+00	4.65E-02	NA	1.51E-02	0.00E+00	0.00E+00	0.00E+00	6.30E-02	1.32E+01	4.78E-03	3.96E+01	1.59E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.65E-02	0	0.00E+00	1.95E+00	0.00E+00	2.59E-02	0.00E+00	0.00E+00	0.00E+00	1.99E+00	4.00E+01	4.97E-02	8.00E+01	2.49E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.60E-01	0.00E+00	2.07E-03	0	0.00E+00	5.90E-02	0.00E+00	1.81E-02	0.00E+00	0.00E+00	0.00E+00	3.39E-01	5.07E+02	6.69E-04	1.13E+03	3.00E-04
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.12E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-02	5.07E+02	4.18E-05	1.13E+03	1.87E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.33E-06	0	0.00E+00	5.04E-04	0.00E+00	1.11E-06	0.00E+00	0.00E+00	0.00E+00	5.07E-04	2.40E-01	2.11E-03	2.40E+00	2.11E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.71E-03	0	0.00E+00	1.91E-01	NA	1.10E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	8.50E+00	1.53E-01	2.55E+01	5.09E-02
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	4.87E-03	0	0.00E+00	8.71E-02	0.00E+00	6.80E-02	0.00E+00	0.00E+00	0.00E+00	1.60E-01	2.00E-01	8.00E-01	3.30E-01	4.85E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.92E-02	0	0.00E+00	3.42E-01	0.00E+00	4.30E-01	0.00E+00	0.00E+00	0.00E+00	8.21E-01	2.63E+02	3.12E-03	7.89E+02	1.04E-03
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.83E+00	0.00E+00	3.25E-01	0	0.00E+00	9.27E+00	0.00E+00	2.85E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.66E-07	0	0.00E+00	2.62E-04	0.00E+00	6.71E-07	0.00E+00	0.00E+00	0.00E+00	2.64E-04	4.58E+00	5.75E-05	9.16E+00	2.88E-05
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	9.99E-03	0.00E+00	4.71E-02	0	0.00E+00	1.04E-01	0.00E+00	4.71E-03	0.00E+00	0.00E+00	0.00E+00	1.65E-01	2.10E-01	7.88E-01	2.10E+00	7.88E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	1.41E-01	0	0.00E+00	1.70E+00	0.00E+00	2.55E+00	0.00E+00	0.00E+00	0.00E+00	4.39E+00	1.60E+02	2.74E-02	3.20E+02	1.37E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	3.6E-03	1.2E-03
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.4E-02	4.9E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	9.2E-01	9.2E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.1E-02	2.7E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW

Table O-28
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Deer Mouse at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d		
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	3.20E-09	0.00E+00	1.37E-08	0	0.00E+00	3.77E-06	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	3.79E-06	1.00E-06	3.79E+00	1.00E-05	3.79E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.79E-06	0	0.00E+00	6.25E-04	0.00E+00	1.95E-06	0.00E+00	0.00E+00	0.00E+00	6.30E-04	8.00E-01	7.87E-04	4.00E+00	1.57E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.65E-05	0	0.00E+00	5.96E-03	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	6.08E-03	8.00E-01	7.59E-03	4.00E+00	1.52E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	9.25E-06	0	0.00E+00	2.15E-03	0.00E+00	6.48E-06	0.00E+00	0.00E+00	0.00E+00	2.16E-03	8.00E-01	2.70E-03	4.00E+00	5.40E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.56E-06	0	0.00E+00	5.93E-04	0.00E+00	3.11E-07	0.00E+00	0.00E+00	0.00E+00	5.96E-04	2.00E-01	2.98E-03	1.00E+00	5.96E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.38E-06	0	0.00E+00	5.41E-04	0.00E+00	5.55E-07	0.00E+00	0.00E+00	0.00E+00	5.44E-04	4.58E+00	1.19E-04	9.16E+00	5.94E-05
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.25E+00	0.00E+00	1.31E+01	0	0.00E+00	1.40E+01	0.00E+00	4.90E-01	0.00E+00	0.00E+00	0.00E+00	2.88E+01	1.93E+00	1.49E+01	1.93E+01	1.49E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.42E-03	0	0.00E+00	3.31E-02	0.00E+00	4.09E-03	0.00E+00	0.00E+00	0.00E+00	4.16E-02	1.25E-01	3.33E-01	1.25E+00	3.33E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.09E-05	0	0.00E+00	2.49E-03	0.00E+00	2.29E-06	0.00E+00	0.00E+00	0.00E+00	2.50E-03	6.85E-02	3.66E-02	6.85E-01	3.66E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.36E-06	0	0.00E+00	5.38E-04	0.00E+00	4.95E-07	0.00E+00	0.00E+00	0.00E+00	5.41E-04	6.80E-02	7.96E-03	6.80E-01	7.96E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	8.04E-05	0	0.00E+00	1.88E-02	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	1.89E-02	6.80E-02	2.78E-01	6.80E-01	2.78E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.73E-05	0	0.00E+00	6.72E-03	0.00E+00	4.39E-07	0.00E+00	0.00E+00	0.00E+00	6.74E-03	6.80E-02	9.92E-02	6.80E-01	9.92E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	6.26E-04	0.00E+00	7.03E-04	0	0.00E+00	4.98E-02	0.00E+00	1.68E-02	0.00E+00	0.00E+00	0.00E+00	6.79E-02	1.00E+00	6.79E-02	1.00E+01	6.79E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.96E-07	0	0.00E+00	6.72E-05	0.00E+00	6.90E-08	0.00E+00	0.00E+00	0.00E+00	6.76E-05	4.58E+00	1.48E-05	9.16E+00	7.38E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.17E-02	0	0.00E+00	1.50E-02	0.00E+00	3.25E-02	0.00E+00	0.00E+00	0.00E+00	7.92E-02	3.28E+00	2.41E-02	2.74E+04	2.89E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	4.50E-04	0	0.00E+00	2.14E-04	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	1.12E-03	3.28E+00	3.43E-04	2.74E+03	4.11E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.12E-07	0	0.00E+00	1.16E-04	0.00E+00	1.19E-07	0.00E+00	0.00E+00	0.00E+00	1.17E-04	4.58E+00	2.55E-05	9.16E+00	1.28E-05
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	2.79E-03	0.00E+00	3.26E-02	0	0.00E+00	5.58E-01	0.00E+00	2.77E-01	0.00E+00	0.00E+00	0.00E+00	8.70E-01	1.17E+01	7.44E-02	1.51E+01	5.75E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.16E-07	0	0.00E+00	1.14E-04	0.00E+00	3.10E-07	0.00E+00	0.00E+00	0.00E+00	1.14E-04	2.00E-02	5.72E-03	2.00E-01	5.72E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	6.15E-07	0	0.00E+00	1.35E-04	0.00E+00	4.21E-07	0.00E+00	0.00E+00	0.00E+00	1.36E-04	9.20E-02	1.48E-03	9.20E-01	1.48E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.00E-05	0	0.00E+00	2.28E-03	0.00E+00	2.34E-06	0.00E+00	0.00E+00	0.00E+00	2.29E-03	4.58E+00	4.99E-04	9.16E+00	2.50E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.45E-07	0	0.00E+00	7.72E-05	0.00E+00	9.95E-08	0.00E+00	0.00E+00	0.00E+00	7.76E-05	1.00E-01	7.76E-04	1.00E+00	7.76E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.86E-07	0	0.00E+00	6.39E-05	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	6.43E-05	8.00E-02	8.04E-04	2.90E-01	2.22E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.25E+00	0.00E+00	2.94E+01	0	0.00E+00	2.65E+01	0.00E+00	2.94E+00	0.00E+00	0.00E+00	0.00E+00	6.01E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.23E-03	0.00E+00	2.45E-01	0	NA	1.13E-01	NA	1.89E-01	0.00E+00	0.00E+00	0.00E+00	5.49E-01	8.00E+00	6.86E-02	8.00E+01	6.86E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	9.50E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-02	8.80E+01	1.08E-03	2.84E+02	3.35E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	8.47E-04	0	0.00E+00	3.87E-02	NA	1.12E-02	0.00E+00	0.00E+00	0.00E+00	5.07E-02	1.32E+01	3.84E-03	3.96E+01	1.28E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.54E-02	0	0.00E+00	4.09E-01	0.00E+00	2.47E-02	0.00E+00	0.00E+00	0.00E+00	4.49E-01	4.00E+01	1.12E-02	8.00E+01	5.61E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.44E-01	0.00E+00	1.69E-03	0	0.00E+00	1.27E-02	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	1.67E-01	5.07E+02	3.29E-04	1.13E+03	1.48E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.67E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02	5.07E+02	3.28E-05	1.13E+03	1.47E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.43E-07	0	0.00E+00	2.06E-04	0.00E+00	6.46E-07	0.00E+00	0.00E+00	0.00E+00	2.08E-04	2.40E-01	8.67E-04	2.40E+00	8.67E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.92E-03	0	0.00E+00	2.94E-02	NA	8.03E-01	0.00E+00	0.00E+00	0.00E+00	8.36E-01	8.50E+00	9.84E-02	2.55E+01	3.28E-02
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	3.67E-03	0	0.00E+00	7.08E-02	0.00E+00	4.98E-02	0.00E+00	0.00E+00	0.00E+00	1.24E-01	2.00E-01	6.21E-01	3.30E-01	3.77E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.56E-02	0	0.00E+00	9.93E-02	0.00E+00	2.40E-01	0.00E+00	0.00E+00	0.00E+00	3.85E-01	2.63E+02	1.46E-03	7.89E+02	4.87E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.54E+00	0.00E+00	2.16E-01	0	0.00E+00	1.62E+00	0.00E+00	1.13E+00	0.00E+00	0.00E+00	0.00E+00	4.51E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.22E-07	0	0.00E+00	1.19E-04	0.00E+00	1.22E-07	0.00E+00	0.00E+00	0.00E+00	1.19E-04	4.58E+00	2.61E-05	9.16E+00	1.30E-05
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	7.92E-03	0.00E+00	4.42E-02	0	0.00E+00	4.64E-02	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	1.02E-01	2.10E-01	4.88E-01	2.10E+00	4.88E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	1.31E-01	0	0.00E+00	1.57E+00	0.00E+00	2.44E+00	0.00E+00	0.00E+00	0.00E+00	4.13E+00	1.60E+02	2.58E-02	3.20E+02	1.29E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.5E-03	4.2E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-02	2.2E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.2E-01	4.2E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.0E-02	1.3E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ

Table O-29
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Raccoon at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.00E-09	2.09E-08	2.20E-08	5.203E-06	1.46E-06	1.56E-06	0.00E+00	1.28E-09	0.00E+00	1.43E-09	0.00E+00	8.27E-06	1.00E-06	8.27E+00	1.00E-05	8.27E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.17E-06	0	0.00E+00	2.07E-04	0.00E+00	3.40E-04	0.00E+00	5.12E-06	0.00E+00	2.20E-04	8.00E-01	2.75E-04	4.00E+00	5.51E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	4.29E-05	0	0.00E+00	2.14E-03	0.00E+00	3.40E-04	0.00E+00	4.54E-05	0.00E+00	2.57E-03	8.00E-01	3.21E-03	4.00E+00	6.41E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.43E-05	0	0.00E+00	7.36E-04	0.00E+00	1.46E-05	0.00E+00	2.54E-05	0.00E+00	7.91E-04	8.00E-01	9.88E-04	4.00E+00	1.98E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.54E-06	0	0.00E+00	1.82E-04	0.00E+00	3.06E-07	0.00E+00	4.34E-06	0.00E+00	1.90E-04	2.00E-01	9.49E-04	1.00E+00	1.90E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.90E-06	0	0.00E+00	2.47E-04	0.00E+00	2.52E-06	0.00E+00	6.01E-06	0.00E+00	2.60E-04	4.58E+00	5.68E-05	9.16E+00	2.84E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.03E-01	2.29E+01	1.74E+01	0.0659218	3.28E+02	6.56E+00	0.00E+00	5.11E-01	0.00E+00	1.60E-01	0.00E+00	3.76E+02	1.93E+00	1.95E+02	1.93E+01	1.95E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.96E-03	0	0.00E+00	2.17E-02	0.00E+00	5.32E-03	0.00E+00	1.05E-03	0.00E+00	3.40E-02	1.25E-01	2.72E-01	1.25E+00	2.72E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.64E-05	0	0.00E+00	8.26E-04	0.00E+00	3.41E-05	0.00E+00	2.01E-05	0.00E+00	8.97E-04	6.85E-02	1.31E-02	6.85E-01	1.31E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.43E-06	0	0.00E+00	1.73E-04	0.00E+00	4.42E-07	0.00E+00	4.20E-06	0.00E+00	1.81E-04	6.80E-02	2.66E-03	6.90E-01	2.62E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.33E-04	0	0.00E+00	6.90E-03	0.00E+00	1.51E-05	0.00E+00	1.51E-04	0.00E+00	7.20E-03	6.80E-02	1.06E-01	6.90E-01	1.04E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.99E-05	0	0.00E+00	2.17E-03	0.00E+00	2.32E-06	0.00E+00	8.15E-05	0.00E+00	2.30E-03	6.80E-02	3.38E-02	6.90E-01	3.33E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.12E-01	0.00E+00	0	4.48E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E+00	5.10E+00	9.40E-01	1.98E+01	2.42E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	2.05E-04	1.29E-03	9.51E-04	0.0101703	3.29E-02	8.26E-03	0.00E+00	1.13E-02	0.00E+00	9.33E-04	0.00E+00	6.61E-02	1.00E+00	6.61E-02	1.00E+01	6.61E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.34E-07	0	0.00E+00	2.18E-05	0.00E+00	2.23E-07	0.00E+00	5.32E-07	0.00E+00	2.30E-05	4.58E+00	5.02E-06	9.16E+00	2.51E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.23E-02	0	0.00E+00	2.56E-03	0.00E+00	2.59E-01	0.00E+00	1.50E-02	0.00E+00	3.19E-01	3.28E+00	9.72E-02	2.74E+04	1.16E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	6.00E-04	0	0.00E+00	3.64E-05	0.00E+00	3.68E-03	0.00E+00	2.13E-04	0.00E+00	4.53E-03	3.28E+00	1.38E-03	2.74E+03	1.65E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.03E-07	0	0.00E+00	4.04E-05	0.00E+00	4.13E-07	0.00E+00	9.84E-07	0.00E+00	4.26E-05	4.58E+00	9.29E-06	9.16E+00	4.65E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	9.72E-04	1.70E-02	4.41E-02	0.175209	2.84E-01	9.19E-02	0.00E+00	1.84E-01	0.00E+00	7.00E-03	0.00E+00	8.05E-01	1.17E+01	6.88E-02	1.51E+01	5.32E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.76E-07	0	0.00E+00	3.78E-05	0.00E+00	1.62E-05	0.00E+00	9.51E-07	0.00E+00	5.58E-05	2.00E-02	2.79E-03	2.00E-01	2.79E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	8.96E-07	0	0.00E+00	4.37E-05	0.00E+00	4.37E-07	0.00E+00	1.16E-06	0.00E+00	4.62E-05	9.20E-02	5.02E-04	9.20E-01	5.02E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.30E-05	0	0.00E+00	1.15E-03	0.00E+00	1.18E-05	0.00E+00	2.81E-05	0.00E+00	1.22E-03	4.58E+00	2.66E-04	9.16E+00	1.33E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.97E-07	0	0.00E+00	2.46E-05	0.00E+00	1.01E-07	0.00E+00	6.09E-07	0.00E+00	2.58E-05	1.00E-01	2.58E-04	1.00E+00	2.58E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.18E-07	0	0.00E+00	2.07E-05	0.00E+00	1.01E-07	0.00E+00	5.12E-07	0.00E+00	2.17E-05	8.00E-02	2.71E-04	2.90E-01	7.49E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.92E-01	0.00E+00	3.97E+01	14.993368	0.00E+00	9.87E+00	0.00E+00	2.03E+00	0.00E+00	8.73E-02	0.00E+00	6.71E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.44E-04	0.00E+00	0	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.27E-04	0.00E+00	4.20E-01	0.0194922	NA	2.48E-02	NA	1.45E-01	0.00E+00	5.94E-03	0.00E+00	6.16E-01	8.00E+00	7.69E-02	8.00E+01	7.69E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.74E-02	0.00E+00	0.00E+00	2.2798057	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E+00	8.80E+01	2.63E-02	2.84E+02	8.16E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.88E-03	0	0.00E+00	7.55E-03	NA	9.79E-03	0.00E+00	2.06E-04	0.00E+00	1.94E-02	1.00E+00	1.94E-02	3.00E+00	6.47E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.26E-04	0.00E+00	0	5.41E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	1.50E-02	5.11E-02	2.50E-02	3.07E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	2.20E-02	2.09E-02	0	1.63E-01	3.16E-01	0.00E+00	1.68E-02	0.00E+00	2.25E-03	0.00E+00	5.41E-01	4.00E+01	1.35E-02	8.00E+01	6.76E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.14E-02	3.06E-04	2.63E-03	2.3232753	2.05E-03	9.58E-03	0.00E+00	1.18E-02	0.00E+00	4.66E-04	0.00E+00	2.42E+00	5.07E+02	4.78E-03	1.13E+03	2.14E-03
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.82E-03	0.00E+00	0.00E+00	0.1891617	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-01	5.07E+02	3.85E-04	1.13E+03	1.73E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.69E-06	0	0.00E+00	8.19E-05	0.00E+00	7.22E-07	0.00E+00	2.07E-06	0.00E+00	8.63E-05	2.40E-01	3.60E-04	2.40E+00	3.60E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.53E-03	0	0.00E+00	3.10E-02	NA	7.15E-01	0.00E+00	1.51E-03	0.00E+00	7.56E-01	8.50E+00	8.89E-02	2.55E+01	2.96E-02
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	2.04E-03	6.20E-03	0	2.93E-02	1.41E-02	0.00E+00	4.42E-02	0.00E+00	1.29E-03	0.00E+00	9.72E-02	2.00E-01	4.86E-01	3.30E-01	2.94E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.25E-02	0	0.00E+00	5.55E-02	0.00E+00	2.79E-01	0.00E+00	1.11E-02	0.00E+00	4.08E-01	2.63E+02	1.55E-03	7.89E+02	5.18E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.02E-01	4.71E-02	4.14E-01	16.31886	3.15E-01	1.50E+00	0.00E+00	1.85E+00	0.00E+00	7.31E-02	0.00E+00	2.10E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.68E-03	0.00E+00	0	2.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-02	7.40E-03	3.48E+00	7.40E-02	3.48E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.46E-07	0	0.00E+00	4.26E-05	0.00E+00	4.36E-07	0.00E+00	1.04E-06	0.00E+00	4.49E-05	4.58E+00	9.80E-06	9.16E+00	4.90E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.74E-03	0.00E+00	5.99E-02	0.0892196	0.00E+00	1.68E-02	0.00E+00	3.06E-03	0.00E+00	3.77E-04	0.00E+00	1.72E-01	2.10E-01	8.19E-01	2.10E+00	8.19E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	9.00E-02	1.80E-01	0	2.16E+00	2.75E-01	0.00E+00	1.65E+00	0.00E+00	8.62E-02	0.00E+00	4.45E+00	1.60E+02	2.78E-02	3.20E+02	1.39E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	6.0E-04	2.0E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.5E-03	8.9E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.6E-01	1.5E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	4.2E-03	5.2E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 =

Table O-30
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Raccoon at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	8.79E-10	1.32E-08	1.74E-08	6.18E-07	1.96E-07	6.12E-07	0.00E+00	8.62E-10	0.00E+00	8.76E-10	0.00E+00	1.46E-06	1.00E-06	1.46E+00	1.00E-05	1.46E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.55E-06	0	0.00E+00	1.01E-04	0.00E+00	1.27E-06	0.00E+00	3.31E-06	0.00E+00	1.10E-04	8.00E-01	1.37E-04	4.00E+00	2.74E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.37E-05	0	0.00E+00	9.67E-04	0.00E+00	5.85E-05	0.00E+00	3.38E-05	0.00E+00	1.09E-03	8.00E-01	1.37E-03	4.00E+00	2.73E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.18E-05	0	0.00E+00	3.48E-04	0.00E+00	4.20E-06	0.00E+00	1.11E-05	0.00E+00	3.75E-04	8.00E-01	4.69E-04	4.00E+00	9.38E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.26E-06	0	0.00E+00	9.63E-05	0.00E+00	2.02E-07	0.00E+00	3.04E-06	0.00E+00	1.03E-04	2.00E-01	5.14E-04	1.00E+00	1.03E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.03E-06	0	0.00E+00	8.78E-05	0.00E+00	3.60E-07	0.00E+00	2.82E-06	0.00E+00	9.40E-05	4.58E+00	2.05E-05	9.16E+00	1.03E-05
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.42E-01	1.91E+01	1.66E+01	0.0448268	2.74E+02	2.28E+00	0.00E+00	3.18E-01	0.00E+00	1.17E-01	0.00E+00	3.13E+02	1.93E+00	1.62E+02	1.93E+01	1.62E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.62E-03	0	0.00E+00	5.38E-03	0.00E+00	2.65E-03	0.00E+00	6.62E-04	0.00E+00	1.43E-02	1.25E-01	1.15E-01	1.25E+00	1.15E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.39E-05	0	0.00E+00	4.04E-04	0.00E+00	1.49E-06	0.00E+00	1.30E-05	0.00E+00	4.33E-04	6.85E-02	6.32E-03	6.85E-01	6.32E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.00E-06	0	0.00E+00	8.74E-05	0.00E+00	3.21E-07	0.00E+00	2.80E-06	0.00E+00	9.35E-05	6.80E-02	1.38E-03	6.90E-01	1.36E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	1.02E-04	0	0.00E+00	3.05E-03	0.00E+00	4.67E-06	0.00E+00	5.41E-05	0.00E+00	3.21E-03	6.80E-02	4.72E-02	6.90E-01	4.65E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.47E-05	0	0.00E+00	1.09E-03	0.00E+00	2.85E-07	0.00E+00	6.17E-05	0.00E+00	1.19E-03	6.80E-02	1.75E-02	6.90E-01	1.72E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0	4.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E+00	5.10E+00	8.39E-01	1.98E+01	2.16E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	1.72E-04	1.08E-03	8.93E-04	0.0060047	2.06E-03	8.08E-03	0.00E+00	1.09E-02	0.00E+00	6.39E-04	0.00E+00	2.99E-02	1.00E+00	2.99E-02	1.00E+01	2.99E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.76E-07	0	0.00E+00	1.09E-05	0.00E+00	4.48E-08	0.00E+00	3.51E-07	0.00E+00	1.17E-05	4.58E+00	2.55E-06	9.16E+00	1.28E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	4.03E-02	0	0.00E+00	2.44E-03	0.00E+00	2.11E-02	0.00E+00	3.62E-03	0.00E+00	6.74E-02	3.28E+00	2.06E-02	2.74E+04	2.46E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	5.72E-04	0	0.00E+00	3.47E-05	0.00E+00	2.99E-04	0.00E+00	5.15E-05	0.00E+00	9.57E-04	3.28E+00	2.92E-04	2.74E+03	3.50E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.51E-07	0	0.00E+00	1.89E-05	0.00E+00	7.75E-08	0.00E+00	6.07E-07	0.00E+00	2.02E-05	4.58E+00	4.41E-06	9.16E+00	2.21E-06
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	7.67E-04	1.45E-02	4.14E-02	0.0259564	7.24E-02	9.06E-02	0.00E+00	1.80E-01	0.00E+00	3.95E-03	0.00E+00	4.29E-01	1.17E+01	3.67E-02	1.51E+01	2.84E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.56E-07	0	0.00E+00	1.84E-05	0.00E+00	2.01E-07	0.00E+00	6.12E-07	0.00E+00	1.99E-05	2.00E-02	9.95E-04	2.00E-01	9.95E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	7.82E-07	0	0.00E+00	2.20E-05	0.00E+00	2.73E-07	0.00E+00	1.01E-06	0.00E+00	2.40E-05	9.20E-02	2.61E-04	9.20E-01	2.61E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.27E-05	0	0.00E+00	3.69E-04	0.00E+00	1.52E-06	0.00E+00	1.19E-05	0.00E+00	3.95E-04	4.58E+00	8.63E-05	9.16E+00	4.32E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.39E-07	0	0.00E+00	1.25E-05	0.00E+00	6.46E-08	0.00E+00	4.09E-07	0.00E+00	1.34E-05	1.00E-01	1.34E-04	1.00E+00	1.34E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.63E-07	0	0.00E+00	1.04E-05	0.00E+00	7.37E-08	0.00E+00	3.39E-07	0.00E+00	1.11E-05	8.00E-02	1.39E-04	2.90E-01	3.84E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.44E-01	0.00E+00	3.74E+01	2.6187527	0.00E+00	4.30E+00	0.00E+00	1.91E+00	0.00E+00	7.00E-02	0.00E+00	4.67E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	1.44E-04	0.00E+00	0	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.37E-04	0.00E+00	3.12E-01	0.0045967	NA	1.84E-02	NA	1.23E-01	0.00E+00	3.86E-03	0.00E+00	4.62E-01	8.00E+00	5.77E-02	8.00E+01	5.77E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.61E-02	0.00E+00	0.00E+00	0.1986017	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-01	8.80E+01	2.55E-03	2.84E+02	7.91E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.08E-03	0	0.00E+00	6.28E-03	NA	7.25E-03	0.00E+00	1.05E-04	0.00E+00	1.47E-02	1.00E+00	1.47E-02	3.00E+00	4.91E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.97E-04	0.00E+00	0	4.71E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	6.68E-04	1.50E-02	4.45E-02	2.50E-02	2.67E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	1.92E-02	1.96E-02	0	2.97E-02	6.64E-02	0.00E+00	1.60E-02	0.00E+00	1.82E-03	0.00E+00	1.53E-01	4.00E+01	3.82E-03	8.00E+01	1.91E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.94E-02	2.24E-04	2.15E-03	0.3614527	3.00E-04	2.06E-03	0.00E+00	5.76E-03	0.00E+00	2.53E-04	0.00E+00	4.12E-01	5.07E+02	8.12E-04	1.13E+03	3.64E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.57E-03	0.00E+00	0.00E+00	0.0418864	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-02	5.07E+02	9.16E-05	1.13E+03	4.11E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.20E-06	0	0.00E+00	3.35E-05	0.00E+00	4.20E-07	0.00E+00	1.12E-06	0.00E+00	3.62E-05	2.40E-01	1.51E-04	2.40E+00	1.51E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.99E-03	0	0.00E+00	4.78E-03	NA	5.21E-01	0.00E+00	5.88E-04	0.00E+00	5.32E-01	8.50E+00	6.25E-02	2.55E+01	2.08E-02
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	1.77E-03	4.67E-03	0	2.54E-02	1.15E-02	0.00E+00	3.23E-02	0.00E+00	7.50E-04	0.00E+00	7.64E-02	2.00E-01	3.82E-01	3.30E-01	2.32E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.80E-02	0	0.00E+00	1.61E-02	0.00E+00	1.56E-01	0.00E+00	6.84E-03	0.00E+00	2.37E-01	2.63E+02	9.00E-04	7.89E+02	3.00E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.23E-01	3.27E-02	2.75E-01	3.8754383	4.39E-02	2.63E-01	0.00E+00	7.36E-01	0.00E+00	3.24E-02	0.00E+00	5.68E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.45E-03	0.00E+00	0	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-02	7.40E-03	3.00E+00	7.40E-02	3.00E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.64E-07	0	0.00E+00	1.93E-05	0.00E+00	7.91E-08	0.00E+00	6.19E-07	0.00E+00	2.06E-05	4.58E+00	4.50E-06	9.16E+00	2.25E-06
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.17E-03	0.00E+00	5.62E-02	0.0199161	0.00E+00	7.53E-03	0.00E+00	2.58E-03	0.00E+00	3.28E-04	0.00E+00	8.87E-02	2.10E-01	4.22E-01	2.10E+00	4.22E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	7.59E-02	1.66E-01	0	4.69E-01	2.54E-01	0.00E+00	1.58E+00	0.00E+00	3.25E-02	0.00E+00	2.58E+00	1.60E+02	1.61E-02	3.20E+02	8.06E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	2.5E-04	7.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-03	3.9E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.2E-02	7.1E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.8E-03	2.3E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1

Table O-31
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Raccoon at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							-----Unitless-----									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.00E-09	3.67E-09	3.87E-09	3.068E-06	8.61E-07	9.21E-07	0.00E+00	7.54E-10	0.00E+00	8.41E-10	0.00E+00	4.86E-06	1.00E-06	4.86E+00	1.00E-05	4.86E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.33E-07	0	0.00E+00	1.22E-04	0.00E+00	2.51E-06	0.00E+00	3.02E-06	0.00E+00	1.28E-04	8.00E-01	1.60E-04	4.00E+00	3.21E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	7.54E-06	0	0.00E+00	1.26E-03	0.00E+00	2.00E-04	0.00E+00	2.68E-05	0.00E+00	1.49E-03	8.00E-01	1.87E-03	4.00E+00	3.74E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.52E-06	0	0.00E+00	4.34E-04	0.00E+00	8.63E-06	0.00E+00	1.49E-05	0.00E+00	4.60E-04	8.00E-01	5.75E-04	4.00E+00	1.15E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.22E-07	0	0.00E+00	1.07E-04	0.00E+00	1.81E-07	0.00E+00	2.56E-06	0.00E+00	1.10E-04	2.00E-01	5.52E-04	1.00E+00	1.10E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.61E-07	0	0.00E+00	1.45E-04	0.00E+00	1.49E-06	0.00E+00	3.55E-06	0.00E+00	1.51E-04	4.58E+00	3.31E-05	9.16E+00	1.65E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.03E-01	4.02E+00	3.06E+00	0.0388711	1.94E+02	3.87E+00	0.00E+00	3.01E-01	0.00E+00	9.46E-02	0.00E+00	2.05E+02	1.93E+00	1.06E+02	1.93E+01	1.06E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.05E-03	0	0.00E+00	1.28E-02	0.00E+00	3.14E-03	0.00E+00	6.21E-04	0.00E+00	1.76E-02	1.25E-01	1.41E-01	1.25E+00	1.41E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.88E-06	0	0.00E+00	4.87E-04	0.00E+00	2.01E-05	0.00E+00	1.18E-05	0.00E+00	5.22E-04	6.85E-02	7.62E-03	6.85E-01	7.62E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.02E-07	0	0.00E+00	1.02E-04	0.00E+00	2.61E-07	0.00E+00	2.48E-06	0.00E+00	1.05E-04	6.80E-02	1.55E-03	6.90E-01	1.53E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	2.34E-05	0	0.00E+00	4.07E-03	0.00E+00	8.88E-06	0.00E+00	8.89E-05	0.00E+00	4.19E-03	6.80E-02	6.17E-02	6.90E-01	6.08E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	7.01E-06	0	0.00E+00	1.28E-03	0.00E+00	1.37E-06	0.00E+00	4.81E-05	0.00E+00	1.34E-03	6.80E-02	1.97E-02	6.90E-01	1.94E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	5.48E-02	0.00E+00	0	2.64E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+00	5.10E+00	5.29E-01	1.98E+01	1.36E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	2.05E-04	2.27E-04	1.67E-04	0.005997	1.94E-02	4.87E-03	0.00E+00	6.66E-03	0.00E+00	5.50E-04	0.00E+00	3.81E-02	1.00E+00	3.81E-02	1.00E+01	3.81E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.62E-08	0	0.00E+00	1.29E-05	0.00E+00	1.32E-07	0.00E+00	3.14E-07	0.00E+00	1.34E-05	4.58E+00	2.92E-06	9.16E+00	1.46E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.42E-03	0	0.00E+00	1.51E-03	0.00E+00	1.53E-01	0.00E+00	8.83E-03	0.00E+00	1.70E-01	3.28E+00	5.20E-02	2.74E+04	6.23E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.05E-04	0	0.00E+00	2.15E-05	0.00E+00	2.17E-03	0.00E+00	1.25E-04	0.00E+00	2.42E-03	3.28E+00	7.38E-04	2.74E+03	8.84E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E-07	0	0.00E+00	2.38E-05	0.00E+00	2.44E-07	0.00E+00	5.80E-07	0.00E+00	2.48E-05	4.58E+00	5.41E-06	9.16E+00	2.70E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	9.72E-04	2.98E-03	7.74E-03	0.1033129	1.68E-01	5.42E-02	0.00E+00	1.09E-01	0.00E+00	4.13E-03	0.00E+00	4.50E-01	1.17E+01	3.84E-02	1.51E+01	2.97E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.36E-07	0	0.00E+00	2.23E-05	0.00E+00	9.58E-06	0.00E+00	5.61E-07	0.00E+00	3.26E-05	2.00E-02	1.63E-03	2.00E-01	1.63E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.57E-07	0	0.00E+00	2.58E-05	0.00E+00	2.58E-07	0.00E+00	6.84E-07	0.00E+00	2.69E-05	9.20E-02	2.92E-04	9.20E-01	2.92E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.03E-06	0	0.00E+00	6.81E-04	0.00E+00	6.97E-06	0.00E+00	1.66E-05	0.00E+00	7.09E-04	4.58E+00	1.55E-04	9.16E+00	7.73E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.73E-08	0	0.00E+00	1.45E-05	0.00E+00	5.94E-08	0.00E+00	3.59E-07	0.00E+00	1.50E-05	1.00E-01	1.50E-04	1.00E+00	1.50E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.33E-08	0	0.00E+00	1.22E-05	0.00E+00	5.94E-08	0.00E+00	3.02E-07	0.00E+00	1.26E-05	8.00E-02	1.58E-04	2.90E-01	4.35E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.92E-01	0.00E+00	6.97E+00	8.8409168	0.00E+00	5.82E+00	0.00E+00	1.19E+00	0.00E+00	5.15E-02	0.00E+00	2.34E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	2.53E-05	0.00E+00	0	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	7.30E+01	mg/kg	1.00E+00	1.50E+03	NA	1.84E-02	NA	4.00E-02	4.00E-02	1.33E-02	1.33E-02	4.27E-04	0.00E+00	3.03E-02	0.0114937	NA	5.95E-03	NA	5.19E-02	0.00E+00	1.44E-03	0.00E+00	1.01E-01	8.00E+00	1.27E-02	8.00E+01	1.27E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.74E-02	0.00E+00	0.00E+00	1.3442992	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E+00	8.80E+01	1.57E-02	2.84E+02	4.87E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.30E-04	0	0.00E+00	4.45E-03	NA	5.77E-03	0.00E+00	1.21E-04	0.00E+00	1.07E-02	1.00E+00	1.07E-02	3.00E+00	3.56E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	3.97E-05	0.00E+00	0	3.19E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.58E-04	1.50E-02	2.39E-02	2.50E-02	1.43E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	3.86E-03	3.68E-03	0	9.60E-02	1.86E-01	0.00E+00	9.92E-03	0.00E+00	1.33E-03	0.00E+00	3.01E-01	4.00E+01	7.53E-03	8.00E+01	3.76E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.14E-02	5.37E-05	4.63E-04	1.3699313	1.21E-03	5.65E-03	0.00E+00	6.94E-03	0.00E+00	2.75E-04	0.00E+00	1.46E+00	5.07E+02	2.87E-03	1.13E+03	1.29E-03
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.82E-03	0.00E+00	0.00E+00	0.1115402	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	5.07E+02	2.31E-04	1.13E+03	1.04E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.97E-07	0	0.00E+00	4.83E-05	0.00E+00	4.26E-07	0.00E+00	1.22E-06	0.00E+00	5.02E-05	2.40E-01	2.09E-04	2.40E+00	2.09E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.50E-03	0	0.00E+00	1.83E-02	NA	4.21E-01	0.00E+00	8.89E-04	0.00E+00	4.42E-01	8.50E+00	5.20E-02	2.55E+01	1.73E-02
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	3.59E-04	1.09E-03	0	1.73E-02	8.34E-03	0.00E+00	2.60E-02	0.00E+00	7.58E-04	0.00E+00	5.39E-02	2.00E-01	2.69E-01	3.30E-01	1.63E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.10E-02	0	0.00E+00	3.27E-02	0.00E+00	1.65E-01	0.00E+00	6.52E-03	0.00E+00	2.15E-01	2.63E+02	8.17E-04	7.89E+02	2.72E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.02E-01	8.27E-03	7.27E-02	9.6225004	1.86E-01	8.87E-01	0.00E+00	1.09E+00	0.00E+00	4.31E-02	0.00E+00	1.24E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	2.95E-04	0.00E+00	0	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02	7.40E-03	1.96E+00	7.40E-02	1.96E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.49E-07	0	0.00E+00	2.51E-05	0.00E+00	2.57E-07	0.00E+00	6.12E-07	0.00E+00	2.61E-05	4.58E+00	5.70E-06	9.16E+00	2.85E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.74E-03	0.00E+00	1.05E-02	0.0526088	0.00E+00	9.92E-03	0.00E+00	1.80E-03	0.00E+00	2.22E-04	0.00E+00	7.78E-02	2.10E-01	3.71E-01	2.10E+00	3.71E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	1.58E-02	3.16E-02	0	1.28E+00	1.62E-01	0.00E+00	9.76E-01	0.00E+00	5.08E-02	0.00E+00	2.51E+00	1.60E+02	1.57E-02	3.20E+02	7.85E-03

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	3.5E-04	1.2E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.6E-03	5.2E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	9.0E-02	8.9E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.5E-03	3.0E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi\,x\,Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Factor	Value	Units
Terrestrial plant diet fraction =	0.6	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.05	unitless
Aq. Invert diet fraction =	0.15	unitless
Terr. Invert diet fraction =	0.15	unitless
Mammal diet fraction =	0.05	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0.002394	kg/d
Sediment ingestion rate =	0.002394	kg/d
Food ingestion rate =	0.171	kg/d
Body weight =	5.78	kg
Home range =	2011	acres
Water intake rate =	0.476	L/d
Site Area =	2330	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-32
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Raccoon at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	8.79E-10	2.32E-09	3.06E-09	3.644E-07	1.16E-07	3.61E-07	0.00E+00	5.08E-10	0.00E+00	5.17E-10	0.00E+00	8.48E-07	1.00E-06	8.48E-01	1.00E-05	8.48E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.24E-07	0	0.00E+00	5.98E-05	0.00E+00	7.48E-07	0.00E+00	1.95E-06	0.00E+00	6.31E-05	8.00E-01	7.89E-05	4.00E+00	1.58E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	5.92E-06	0	0.00E+00	5.70E-04	0.00E+00	3.45E-05	0.00E+00	1.99E-05	0.00E+00	6.31E-04	8.00E-01	7.88E-04	4.00E+00	1.58E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	2.07E-06	0	0.00E+00	2.05E-04	0.00E+00	2.48E-06	0.00E+00	6.54E-06	0.00E+00	2.16E-04	8.00E-01	2.71E-04	4.00E+00	5.41E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.72E-07	0	0.00E+00	5.68E-05	0.00E+00	1.19E-07	0.00E+00	1.79E-06	0.00E+00	5.92E-05	2.00E-01	2.96E-04	1.00E+00	5.92E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.32E-07	0	0.00E+00	5.18E-05	0.00E+00	2.12E-07	0.00E+00	1.66E-06	0.00E+00	5.42E-05	4.58E+00	1.18E-05	9.16E+00	5.91E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.42E-01	3.35E+00	2.92E+00	0.0264324	1.62E+02	1.34E+00	0.00E+00	1.88E-01	0.00E+00	6.90E-02	0.00E+00	1.70E+02	1.93E+00	8.80E+01	1.93E+01	8.80E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.87E-04	0	0.00E+00	3.17E-03	0.00E+00	1.56E-03	0.00E+00	3.90E-04	0.00E+00	6.11E-03	1.25E-01	4.89E-02	1.25E+00	4.89E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.44E-06	0	0.00E+00	2.38E-04	0.00E+00	8.77E-07	0.00E+00	7.64E-06	0.00E+00	2.49E-04	6.85E-02	3.64E-03	6.85E-01	3.64E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.28E-07	0	0.00E+00	5.15E-05	0.00E+00	1.90E-07	0.00E+00	1.65E-06	0.00E+00	5.39E-05	6.80E-02	7.93E-04	6.90E-01	7.81E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	1.80E-05	0	0.00E+00	1.80E-03	0.00E+00	2.75E-06	0.00E+00	3.19E-05	0.00E+00	1.85E-03	6.80E-02	2.72E-02	6.90E-01	2.68E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	6.10E-06	0	0.00E+00	6.43E-04	0.00E+00	1.68E-07	0.00E+00	3.64E-05	0.00E+00	6.85E-04	6.80E-02	1.01E-02	6.90E-01	9.93E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	4.89E-02	0.00E+00	0	2.36E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	5.10E+00	4.72E-01	1.98E+01	1.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	1.72E-04	1.89E-04	1.57E-04	0.0035407	1.22E-03	4.76E-03	0.00E+00	6.44E-03	0.00E+00	3.77E-04	0.00E+00	1.69E-02	1.00E+00	1.69E-02	1.00E+01	1.69E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.61E-08	0	0.00E+00	6.43E-06	0.00E+00	2.64E-08	0.00E+00	2.07E-07	0.00E+00	6.73E-06	4.58E+00	1.47E-06	9.16E+00	7.35E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	7.07E-03	0	0.00E+00	1.44E-03	0.00E+00	1.24E-02	0.00E+00	2.14E-03	0.00E+00	2.31E-02	3.28E+00	7.04E-03	2.74E+04	8.43E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.00E-04	0	0.00E+00	2.04E-05	0.00E+00	1.76E-04	0.00E+00	3.03E-05	0.00E+00	3.28E-04	3.28E+00	9.99E-05	2.74E+03	1.20E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.14E-07	0	0.00E+00	1.11E-05	0.00E+00	4.57E-08	0.00E+00	3.58E-07	0.00E+00	1.16E-05	4.58E+00	2.54E-06	9.16E+00	1.27E-06
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	7.67E-04	2.55E-03	7.27E-03	0.0153053	4.27E-02	5.34E-02	0.00E+00	1.06E-01	0.00E+00	2.33E-03	0.00E+00	2.30E-01	1.17E+01	1.97E-02	1.51E+01	1.52E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.15E-07	0	0.00E+00	1.09E-05	0.00E+00	1.19E-07	0.00E+00	3.61E-07	0.00E+00	1.15E-05	2.00E-02	5.73E-04	2.00E-01	5.73E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	1.37E-07	0	0.00E+00	1.29E-05	0.00E+00	1.61E-07	0.00E+00	5.95E-07	0.00E+00	1.38E-05	9.20E-02	1.50E-04	9.20E-01	1.50E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-06	0	0.00E+00	2.18E-04	0.00E+00	8.94E-07	0.00E+00	7.00E-06	0.00E+00	2.28E-04	4.58E+00	4.98E-05	9.16E+00	2.49E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.70E-08	0	0.00E+00	7.39E-06	0.00E+00	3.81E-08	0.00E+00	2.41E-07	0.00E+00	7.74E-06	1.00E-01	7.74E-05	1.00E+00	7.74E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.38E-08	0	0.00E+00	6.12E-06	0.00E+00	4.34E-08	0.00E+00	2.00E-07	0.00E+00	6.42E-06	8.00E-02	8.03E-05	2.90E-01	2.21E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.44E-01	0.00E+00	6.57E+00	1.5441611	0.00E+00	2.53E+00	0.00E+00	1.13E+00	0.00E+00	4.13E-02	0.00E+00	1.22E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	2.53E-05	0.00E+00	0	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.37E-04	0.00E+00	5.48E-02	0.0027104	NA	1.08E-02	NA	7.24E-02	0.00E+00	2.28E-03	0.00E+00	1.43E-01	8.00E+00	1.79E-02	8.00E+01	1.79E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.61E-02	0.00E+00	0.00E+00	0.1171065	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-01	8.80E+01	1.63E-03	2.84E+02	5.04E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.89E-04	0	0.00E+00	3.70E-03	NA	4.28E-03	0.00E+00	6.18E-05	0.00E+00	8.23E-03	1.00E+00	8.23E-03	3.00E+00	2.74E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	3.46E-05	0.00E+00	0	2.78E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.12E-04	1.50E-02	2.08E-02	2.50E-02	1.25E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	3.36E-03	3.45E-03	0	1.75E-02	3.91E-02	0.00E+00	9.45E-03	0.00E+00	1.07E-03	0.00E+00	7.40E-02	4.00E+01	1.85E-03	8.00E+01	9.25E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.94E-02	3.93E-05	3.78E-04	0.2131325	1.77E-04	1.21E-03	0.00E+00	3.40E-03	0.00E+00	1.49E-04	0.00E+00	2.58E-01	5.07E+02	5.09E-04	1.13E+03	2.28E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.57E-03	0.00E+00	0.00E+00	0.0246986	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-02	5.07E+02	5.77E-05	1.13E+03	2.59E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-07	0	0.00E+00	1.98E-05	0.00E+00	2.47E-07	0.00E+00	6.59E-07	0.00E+00	2.09E-05	2.40E-01	8.70E-05	2.40E+00	8.70E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	8.76E-04	0	0.00E+00	2.82E-03	NA	3.07E-01	0.00E+00	3.47E-04	0.00E+00	3.11E-01	8.50E+00	3.66E-02	2.55E+01	1.22E-02
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	3.11E-04	8.20E-04	0	1.50E-02	6.78E-03	0.00E+00	1.91E-02	0.00E+00	4.42E-04	0.00E+00	4.24E-02	2.00E-01	2.12E-01	3.30E-01	1.28E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.02E-02	0	0.00E+00	9.50E-03	0.00E+00	9.17E-02	0.00E+00	4.03E-03	0.00E+00	1.15E-01	2.63E+02	4.39E-04	7.89E+02	1.46E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.23E-01	5.75E-03	4.82E-02	2.2851722	2.59E-02	1.55E-01	0.00E+00	4.34E-01	0.00E+00	1.91E-02	0.00E+00	3.40E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	2.54E-04	0.00E+00	0	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	7.40E-03	1.69E+00	7.40E-02	1.69E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.17E-07	0	0.00E+00	1.14E-05	0.00E+00	4.66E-08	0.00E+00	3.65E-07	0.00E+00	1.19E-05	4.58E+00	2.60E-06	9.16E+00	1.30E-06
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.17E-03	0.00E+00	9.87E-03	0.0117436	0.00E+00	4.44E-03	0.00E+00	1.52E-03	0.00E+00	1.93E-04	0.00E+00	2.99E-02	2.10E-01	1.43E-01	2.10E+00	1.43E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	1.33E-02	2.92E-02	0	2.77E-01	1.50E-01	0.00E+00	9.33E-01	0.00E+00	1.92E-02	0.00E+00	1.42E+00	1.60E+02	8.88E-03	3.20E+02	4.44E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.5E-04	4.2E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-03	2.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.2E-02	4.1E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.0E-03	1.3E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (l) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound E

Table O-33
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Short-tailed Shrew at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.62E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.68E-09	0.00E+00	1.06E-07	0	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	1.00E-06	1.83E+01	1.00E-05	1.83E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.62E-05	0	0.00E+00	3.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-03	8.00E-01	3.94E-03	4.00E+00	7.89E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.41E-04	0	0.00E+00	2.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-02	8.00E-01	3.64E-02	4.00E+00	7.28E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.89E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	9.63E-05	0	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	8.00E-01	1.50E-02	4.00E+00	3.00E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.94E-05	0	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	2.00E-01	2.45E-02	1.00E+00	4.91E-03
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.64E-05	0	0.00E+00	4.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	4.58E+00	9.71E-04	9.16E+00	4.85E-04
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.54E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.34E+00	0.00E+00	1.33E+02	0	0.00E+00	1.21E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E+02	1.93E+00	1.32E+02	1.93E+01	1.32E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.94E-02	0	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-01	1.25E-01	2.30E-03	1.25E+00	2.30E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	7.40E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.03E-04	0	0.00E+00	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-02	6.85E-02	1.85E-01	6.85E-01	1.85E-02
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.84E-05	0	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	6.80E-02	3.32E-02	6.80E-01	3.32E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.39E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.52E-04	0	0.00E+00	9.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-02	6.80E-02	1.39E+00	6.80E-01	1.39E-01
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.69E-04	0	0.00E+00	3.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-02	6.80E-02	5.23E-01	6.80E-01	5.23E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	8.87E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.64E+00	8.11E-01	6.53E-01	6.53E-01	9.22E-01	9.22E-01	5.47E-04	0.00E+00	1.24E-02	0	0.00E+00	1.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-01	1.00E+00	1.69E-01	1.00E+01	1.69E-02
Chlordane	0.00E+00	mg/L	1.83E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.55E-06	0	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	4.58E+00	6.80E-05	9.16E+00	3.40E-05
Chromium (trivalent)	0.00E+00	mg/L	1.85E+01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.58E-01	0	0.00E+00	3.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-01	3.28E+00	9.03E-02	2.74E+04	1.08E-05
Chromium (hexavalent)	0.00E+00	mg/L	2.63E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	3.67E-03	0	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03	3.28E+00	1.28E-03	2.74E+03	1.54E-06
cis-Nonachlor	0.00E+00	mg/L	3.91E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.46E-06	0	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	4.58E+00	1.46E-04	9.16E+00	7.28E-05
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.83E-01	5.86E-01	3.39E-01	3.39E-01	1.49E-01	1.49E-01	2.60E-03	0.00E+00	2.46E-01	0	0.00E+00	1.29E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+00	1.17E+01	1.32E-01	1.51E+01	1.02E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.70E-03	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-05	0	0.00E+00	2.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-03	2.00E-02	1.41E-01	2.00E-01	1.41E-02
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.03E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	5.63E-06	0	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-04	9.20E-02	7.25E-03	9.20E-01	7.25E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.38E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.51E-05	0	0.00E+00	9.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-03	4.58E+00	2.00E-03	9.16E+00	1.00E-03
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.61E-06	0	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	1.00E-01	3.14E-03	1.00E+00	3.14E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-02	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.39E-04	0	0.00E+00	2.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-02	8.00E-02	3.60E-01	2.90E-01	9.93E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.74E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.31E+00	0.00E+00	2.43E+02	0	0.00E+00	1.46E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	1.14E-03	0.00E+00	2.11E+00	0	NA	3.00E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	8.00E+00	3.02E-01	8.00E+01	3.02E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.00E-01	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	8.80E+01	1.14E-03	2.84E+02	3.52E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.89E-01	mg/kg	1.00E+00		7.50E-01	1.54E+00	NA	4.69E-01	4.69E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	8.22E-03	0	0.00E+00	9.75E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-01	1.32E+01	8.01E-03	3.96E+01	2.67E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	1.07E+01	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.00E-02	6.00E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.50E-01	0	0.00E+00	5.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E+00	4.00E+01	1.40E-01	8.00E+01	7.00E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.91E-01	0.00E+00	2.59E-02	0	0.00E+00	2.27E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	5.07E+02	8.76E-04	1.13E+03	3.93E-04
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.55E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-02	5.07E+02	3.06E-05	1.13E+03	1.37E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.77E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.22E-05	0	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	2.40E-01	6.01E-03	2.40E+00	6.01E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.79E+00	mg/kg	1.00E+00			1.14E+00	NA	6.44E+00	6.44E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.29E-02	0	0.00E+00	4.64E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-01	8.50E+00	6.08E-02	2.55E+01	2.03E-02
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	1.50E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.32E-01	4.99E-01	5.28E-01	5.28E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	2.09E-02	0	0.00E+00	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-01	2.00E-01	7.74E-01	3.30E-01	4.69E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	5.39E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.53E-01	0	0.00E+00	1.61E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E+00	2.63E+02	8.98E-03	7.89E+02	2.99E-03
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.35E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.34E+00	0.00E+00	1.88E+00	0	0.00E+00	1.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.80E-06	0	0.00E+00	7.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	4.58E+00	1.55E-04	9.16E+00	7.74E-05
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.60E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	7.33E-03	0.00E+00	3.63E-01	0	0.00E+00	2.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-01	2.10E-01	2.93E+00	2.10E+00	2.93E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.16E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.92E-01	7.92E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	8.60E-01	0	0.00E+00	3.18E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E+00	1.60E+02	2.52E-02	3.20E+02	1.26E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	6.5E-03	2.0E-03
**DDX (4,4'-DDD, -DDE, -DD

Table O-34
BERA Tier 2 COPCs EEQs and Hazard Indices for the Short-tailed Shrew at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	5.82E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.35E-09	0.00E+00	8.12E-08	0	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-06	1.00E-06	6.96E+00	1.00E-05	6.96E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.64E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.29E-05	0	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	8.00E-01	2.00E-03	4.00E+00	4.00E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.20E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.67E-04	0	0.00E+00	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	8.00E-01	1.47E-02	4.00E+00	2.94E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	7.77E-05	0	0.00E+00	5.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-03	8.00E-01	7.03E-03	4.00E+00	1.41E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.45E-05	0	0.00E+00	1.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-03	2.00E-01	8.87E-03	1.00E+00	1.77E-03
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.34E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.87E-05	0	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-03	4.58E+00	2.90E-04	9.16E+00	1.45E-04
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	8.99E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.14E-01	0.00E+00	1.26E+02	0	0.00E+00	4.15E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E+02	1.93E+00	8.70E+01	1.93E+01	8.70E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.86E-02	0	0.00E+00	6.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-02	1.25E-01	7.58E-01	1.25E+00	7.58E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.31E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.81E-05	0	0.00E+00	6.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-03	6.85E-02	9.15E-02	6.85E-01	9.15E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.11E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.54E-05	0	0.00E+00	1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	6.80E-02	1.61E-02	6.80E-01	1.61E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.78E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	5.28E-04	0	0.00E+00	3.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-02	6.80E-02	5.66E-01	6.80E-01	5.66E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.70E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.38E-04	0	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-02	6.80E-02	2.68E-01	6.80E-01	2.68E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	7.47E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	1.83E+00	8.80E-01	7.06E-01	7.06E-01	6.72E-01	6.72E-01	4.59E-04	0.00E+00	1.04E-02	0	0.00E+00	1.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-01	1.00E+00	1.58E-01	1.00E+01	1.58E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.23E-06	0	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	4.58E+00	3.45E-05	9.16E+00	1.72E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.74E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.43E-01	0	0.00E+00	3.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-01	3.28E+00	8.49E-02	2.74E+04	1.02E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.45E-03	0	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03	3.28E+00	1.21E-03	2.74E+03	1.44E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.70E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.77E-06	0	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	4.58E+00	5.83E-05	9.16E+00	2.92E-05
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.33E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	8.47E-01	6.44E-01	4.03E-01	4.03E-01	8.97E-02	8.97E-02	2.05E-03	0.00E+00	1.86E-01	0	0.00E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+00	1.17E+01	1.19E-01	1.51E+01	9.22E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-05	0	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	2.00E-02	7.26E-02	2.00E-01	7.26E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.95E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.12E-06	0	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	9.20E-02	3.07E-03	9.20E-01	3.07E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.61E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.03E-05	0	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	4.58E+00	7.79E-04	9.16E+00	3.90E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.65E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.30E-06	0	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	1.00E-01	1.60E-03	1.00E+00	1.60E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.06E-04	0	0.00E+00	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	8.00E-02	1.80E-01	2.90E-01	4.97E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.64E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	9.19E-01	0.00E+00	2.29E+02	0	0.00E+00	6.35E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	9.00E-04	0.00E+00	1.68E+00	0	NA	2.38E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+00	8.00E+00	2.40E-01	8.00E+01	2.40E-02
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.97E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-02	8.80E+01	7.92E-04	2.84E+02	2.45E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E-01	mg/kg	1.00E+00		7.50E-01	2.63E+00	NA	6.77E-01	6.77E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	3.70E-03	0	0.00E+00	7.49E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-02	1.32E+01	5.96E-03	3.96E+01	1.99E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	9.95E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.11E-02	6.11E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.39E-01	0	0.00E+00	1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	4.00E+01	3.18E-02	8.00E+01	1.59E-02
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	1.21E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.05E-01	0.00E+00	1.68E-02	0	0.00E+00	3.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-01	5.07E+02	3.18E-04	1.13E+03	1.43E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.22E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	5.07E+02	2.41E-05	1.13E+03	1.08E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.08E-06	0	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	2.40E-01	2.01E-03	2.40E+00	2.01E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E+00	mg/kg	1.00E+00			3.00E-01	NA	7.16E+00	7.16E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.09E-02	0	0.00E+00	9.43E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-01	8.50E+00	1.59E-02	2.55E+01	5.30E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.17E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.89E-01	4.92E-01	5.15E-01	5.15E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	1.64E-02	0	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-01	2.00E-01	6.41E-01	3.30E-01	3.89E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.84E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.36E-01	0	0.00E+00	3.59E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-01	2.63E+02	3.40E-03	7.89E+02	1.13E-03
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	9.41E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.13E+00	0.00E+00	1.31E+00	0	0.00E+00	3.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.72E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.79E-06	0	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	4.58E+00	5.87E-05	9.16E+00	2.93E-05
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.48E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.81E-03	0.00E+00	3.47E-01	0	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-01	2.10E-01	2.21E+00	2.10E+00	2.21E-01
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	5.34E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.44E-01	8.44E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	7.45E-01	0	0.00E+00	2.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E+00	1.60E+02	2.19E-02	3.20E+02	1.09E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	2.8E-03	7.7E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.4E-02	4.7E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	9.4E-01	9.4E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	8.5E-02	9.3E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2

Table O-35
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Red Fox at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.62E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.03E-09	0.00E+00	7.21E-09	0	0.00E+00	1.72E-07	0.00E+00	1.40E-10	0.00E+00	1.10E-08	2.35E-09	1.93E-07	1.00E-06	1.93E-01	1.00E-05	1.93E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.78E-06	0	0.00E+00	2.95E-05	0.00E+00	6.08E-07	0.00E+00	5.11E-05	1.10E-05	9.40E-05	8.00E-01	1.17E-04	4.00E+00	2.35E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.63E-05	0	0.00E+00	2.72E-04	0.00E+00	4.33E-05	0.00E+00	4.05E-04	8.68E-05	8.24E-04	8.00E-01	1.03E-03	4.00E+00	2.06E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.89E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	6.53E-06	0	0.00E+00	1.12E-04	0.00E+00	2.24E-06	0.00E+00	2.71E-04	5.81E-05	4.50E-04	8.00E-01	5.63E-04	4.00E+00	1.13E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.67E-06	0	0.00E+00	4.59E-05	0.00E+00	7.75E-08	0.00E+00	7.68E-05	1.65E-05	1.42E-04	2.00E-01	7.10E-04	1.00E+00	1.42E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.47E-06	0	0.00E+00	4.16E-05	0.00E+00	4.26E-07	0.00E+00	7.10E-05	1.52E-05	1.31E-04	4.58E+00	2.85E-05	9.16E+00	1.43E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.54E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.16E-01	0.00E+00	9.03E+00	0	0.00E+00	1.14E+00	0.00E+00	8.89E-02	0.00E+00	1.95E+00	4.18E-01	1.32E+01	1.93E+00	6.81E+00	1.93E+01	6.81E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.39E-03	0	0.00E+00	2.92E-03	0.00E+00	7.17E-04	0.00E+00	9.92E-03	2.13E-03	1.81E-02	1.25E-01	1.45E-01	1.25E+00	1.45E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	7.40E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.00E-06	0	0.00E+00	1.18E-04	0.00E+00	4.89E-06	0.00E+00	2.01E-04	4.32E-05	3.75E-04	6.85E-02	5.47E-03	6.85E-01	5.47E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-06	0	0.00E+00	2.12E-05	0.00E+00	5.41E-08	0.00E+00	3.60E-05	7.71E-06	6.61E-05	6.80E-02	9.73E-04	6.90E-01	9.59E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.39E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.11E-05	0	0.00E+00	8.85E-04	0.00E+00	1.93E-06	0.00E+00	1.35E-03	2.90E-04	2.58E-03	6.80E-02	3.80E-02	6.90E-01	3.74E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.82E-05	0	0.00E+00	3.33E-04	0.00E+00	3.55E-07	0.00E+00	8.74E-04	1.87E-04	1.41E-03	6.80E-02	2.08E-02	6.90E-01	2.05E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	8.87E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.64E+00	8.11E-01	6.53E-01	6.53E-01	9.22E-01	9.22E-01	2.10E-04	0.00E+00	8.40E-04	0	0.00E+00	1.48E-03	0.00E+00	2.35E-03	0.00E+00	1.94E-02	4.15E-03	2.84E-02	1.00E+00	2.84E-02	1.00E+01	2.84E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.83E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.73E-07	0	0.00E+00	2.92E-06	0.00E+00	2.98E-08	0.00E+00	4.97E-06	1.07E-06	9.16E-06	4.58E+00	2.00E-06	9.16E+00	1.00E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.85E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.75E-02	0	0.00E+00	3.56E-04	0.00E+00	3.60E-02	0.00E+00	1.46E-01	3.12E-02	2.31E-01	3.28E+00	7.04E-02	2.74E+04	8.44E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.49E-04	0	0.00E+00	5.06E-06	0.00E+00	5.11E-04	0.00E+00	2.07E-03	4.44E-04	3.28E-03	3.28E+00	9.99E-04	2.74E+03	1.20E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.91E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.70E-07	0	0.00E+00	6.24E-06	0.00E+00	6.39E-08	0.00E+00	1.07E-05	2.28E-06	1.96E-05	4.58E+00	4.28E-06	9.16E+00	2.14E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.83E-01	5.86E-01	3.39E-01	3.39E-01	1.49E-01	1.49E-01	9.97E-04	0.00E+00	1.67E-02	0	0.00E+00	1.22E-02	0.00E+00	2.43E-02	0.00E+00	6.23E-02	1.33E-02	1.30E-01	1.17E+01	1.11E-02	1.51E+01	8.57E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.70E-03	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.61E-06	0	0.00E+00	2.64E-05	0.00E+00	1.13E-05	0.00E+00	4.64E-05	9.95E-06	9.57E-05	2.00E-02	4.79E-03	2.00E-01	4.79E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.03E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.82E-07	0	0.00E+00	6.24E-06	0.00E+00	6.25E-08	0.00E+00	1.16E-05	2.49E-06	2.08E-05	9.20E-02	2.26E-04	9.20E-01	2.26E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.38E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.09E-06	0	0.00E+00	8.59E-05	0.00E+00	8.79E-07	0.00E+00	1.47E-04	3.14E-05	2.70E-04	4.58E+00	5.89E-05	9.16E+00	2.94E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.77E-07	0	0.00E+00	2.93E-06	0.00E+00	1.20E-08	0.00E+00	5.09E-06	1.09E-06	9.30E-06	1.00E-01	9.30E-05	1.00E+00	9.30E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-02	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.62E-05	0	0.00E+00	2.70E-04	0.00E+00	1.31E-06	0.00E+00	4.67E-04	1.00E-04	8.54E-04	8.00E-02	1.07E-02	2.90E-01	2.95E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.74E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.05E-01	0.00E+00	1.65E+01	0	0.00E+00	1.37E+00	0.00E+00	2.82E-01	0.00E+00	8.50E-01	1.82E-01	1.97E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	4.37E-04	0.00E+00	1.43E-01	0	NA	2.83E-03	NA	1.78E-02	0.00E+00	4.76E-02	1.02E-02	2.22E-01	8.00E+00	2.78E-02	8.00E+01	2.78E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.84E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-02	8.80E+01	4.36E-04	2.84E+02	1.35E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.89E-01	mg/kg	1.00E+00		7.50E-01	1.54E+00	NA	4.69E-01	4.69E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	5.58E-04	0	0.00E+00	9.20E-04	NA	1.12E-03	0.00E+00	1.43E-03	3.07E-04	4.34E-03	1.00E+00	4.34E-03	3.00E+00	1.45E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	1.07E+01	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.00E-02	6.00E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.02E-02	0	0.00E+00	5.15E-02	0.00E+00	2.61E-03	0.00E+00	2.57E-02	5.50E-03	9.54E-02	4.00E+01	2.38E-03	8.00E+01	1.19E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.32E-02	0.00E+00	1.76E-03	0	0.00E+00	2.15E-03	0.00E+00	2.64E-03	0.00E+00	7.30E-03	1.56E-03	8.86E-02	5.07E+02	1.75E-04	1.13E+03	7.84E-05
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.96E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-03	5.07E+02	1.18E-05	1.13E+03	5.28E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.77E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.31E-07	0	0.00E+00	1.35E-05	0.00E+00	1.19E-07	0.00E+00	2.39E-05	5.12E-06	4.35E-05	2.40E-01	1.81E-04	2.40E+00	1.81E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.79E+00	mg/kg	1.00E+00			1.14E+00	NA	6.44E+00	6.44E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.59E-03	0	0.00E+00	4.37E-03	NA	9.89E-02	0.00E+00	1.49E-02	3.19E-03	1.25E-01	8.50E+00	1.47E-02	2.55E+01	4.90E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	1.50E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.32E-01	4.99E-01	5.28E-01	5.28E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	1.42E-03	0	0.00E+00	1.26E-03	0.00E+00	3.20E-03	0.00E+00	6.91E-03	1.48E-03	1.43E-02	2.00E-01	7.14E-02	3.30E-01	4.33E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	5.39E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.11E-02	0	0.00E+00	1.52E-02	0.00E+00	7.65E-02	0.00E+00	2.12E-01	4.54E-02	4.00E-01	2.63E+02	1.52E-03	7.89E+02	5.07E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.35E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.14E-01	0.00E+00	1.28E-01	0	0.00E+00	1.56E-01	0.00E+00	1.91E-01	0.00E+00	5.30E-01	1.14E-01	1.63E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.93E-07	0	0.00E+00	6.63E-06	0.00E+00	6.79E-08	0.00E+00	1.13E-05	2.43E-06	2.08E-05	4.58E+00	4.55E-06	9.16E+00	2.27E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.60E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.81E-03	0.00E+00	2.46E-02	0	0.00E+00	2.32E-03	0.00E+00	4.22E-04	0.00E+00	3.64E-03	7.80E-04	3.46E-02	2.10E-01	1.65E-01	2.10E+00	1.65E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.16E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.92E-01	7.92E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	5.84E-02	0	0.00E+00	3.00E-02	0.00E+00	1.98E-01	0.00E+00	6.57E-01	1.41E-01	1.08E+00	1.60E+02	6.77E-03	3.20E+02	3.39E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.9E-04	5.8E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.7E-03	3.4E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.5E-02	6.4E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	5.7E-03	6.4E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = E

Table O-36
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	5.82E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	8.19E-10	0.00E+00	5.00E-09	0	0.00E+00	5.89E-08	0.00E+00	8.30E-11	0.00E+00	5.90E-09	1.27E-09	7.20E-08	1.00E-06	7.20E-02	1.00E-05	7.20E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.64E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.41E-06	0	0.00E+00	1.35E-05	0.00E+00	1.69E-07	0.00E+00	3.09E-05	6.62E-06	5.26E-05	8.00E-01	6.57E-05	4.00E+00	1.31E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.20E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.03E-05	0	0.00E+00	9.92E-05	0.00E+00	6.00E-06	0.00E+00	2.42E-04	5.19E-05	4.10E-04	8.00E-01	5.12E-04	4.00E+00	1.02E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	4.79E-06	0	0.00E+00	4.75E-05	0.00E+00	5.74E-07	0.00E+00	1.06E-04	2.27E-05	1.82E-04	8.00E-01	2.27E-04	4.00E+00	4.54E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.51E-06	0	0.00E+00	1.50E-05	0.00E+00	3.14E-08	0.00E+00	3.31E-05	7.09E-06	5.67E-05	2.00E-01	2.84E-04	1.00E+00	5.67E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.34E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.16E-06	0	0.00E+00	1.12E-05	0.00E+00	4.61E-08	0.00E+00	2.53E-05	5.42E-06	4.31E-05	4.58E+00	9.42E-06	9.16E+00	4.71E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	8.99E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.19E-01	0.00E+00	7.74E+00	0	0.00E+00	3.56E-01	0.00E+00	4.97E-02	0.00E+00	1.28E+00	2.74E-01	1.00E+01	1.93E+00	5.19E+00	1.93E+01	5.19E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.77E-03	0	0.00E+00	5.67E-04	0.00E+00	2.79E-04	0.00E+00	4.88E-03	1.05E-03	8.54E-03	1.25E-01	6.83E-02	1.25E+00	6.83E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.31E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.43E-06	0	0.00E+00	5.30E-05	0.00E+00	1.95E-07	0.00E+00	1.19E-04	2.55E-05	2.03E-04	6.85E-02	2.96E-03	6.85E-01	2.96E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.11E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.51E-07	0	0.00E+00	9.27E-06	0.00E+00	3.41E-08	0.00E+00	2.08E-05	4.46E-06	3.55E-05	6.80E-02	5.22E-04	6.90E-01	5.15E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.78E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	3.25E-05	0	0.00E+00	3.25E-04	0.00E+00	4.98E-07	0.00E+00	4.04E-04	8.66E-05	8.49E-04	6.80E-02	1.25E-02	6.90E-01	1.23E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.70E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.47E-05	0	0.00E+00	1.54E-04	0.00E+00	4.03E-08	0.00E+00	6.11E-04	1.31E-04	9.11E-04	6.80E-02	1.34E-02	6.90E-01	1.32E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	7.47E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	1.83E+00	8.80E-01	7.06E-01	7.06E-01	6.72E-01	6.72E-01	1.60E-04	0.00E+00	6.42E-04	0	0.00E+00	1.26E-03	0.00E+00	1.94E-03	0.00E+00	1.08E-02	2.31E-03	1.71E-02	1.00E+00	1.71E-02	1.00E+01	1.71E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.37E-07	0	0.00E+00	1.33E-06	0.00E+00	5.48E-09	0.00E+00	3.00E-06	6.43E-07	5.12E-06	4.58E+00	1.12E-06	9.16E+00	5.59E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.74E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.50E-02	0	0.00E+00	3.04E-04	0.00E+00	2.63E-03	0.00E+00	3.16E-02	6.78E-03	5.63E-02	3.28E+00	1.72E-02	2.74E+04	2.06E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.13E-04	0	0.00E+00	4.32E-06	0.00E+00	3.73E-05	0.00E+00	4.49E-04	9.62E-05	7.99E-04	3.28E+00	2.44E-04	2.74E+03	2.92E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.70E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.32E-07	0	0.00E+00	2.26E-06	0.00E+00	9.26E-09	0.00E+00	5.08E-06	1.09E-06	8.66E-06	4.58E+00	1.89E-06	9.16E+00	9.46E-07
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.33E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	8.47E-01	6.44E-01	4.03E-01	4.03E-01	8.97E-02	8.97E-02	7.14E-04	0.00E+00	1.14E-02	0	0.00E+00	1.04E-02	0.00E+00	1.97E-02	0.00E+00	2.56E-02	5.49E-03	7.33E-02	1.17E+01	6.27E-03	1.51E+01	4.84E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.30E-06	0	0.00E+00	1.23E-05	0.00E+00	1.34E-07	0.00E+00	2.85E-05	6.11E-06	4.83E-05	2.00E-02	2.42E-03	2.00E-01	2.42E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.95E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.54E-07	0	0.00E+00	2.39E-06	0.00E+00	2.98E-08	0.00E+00	7.69E-06	1.65E-06	1.20E-05	9.20E-02	1.31E-04	9.20E-01	1.31E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.61E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.10E-06	0	0.00E+00	3.02E-05	0.00E+00	1.24E-07	0.00E+00	6.79E-05	1.45E-05	1.16E-04	4.58E+00	2.53E-05	9.16E+00	1.26E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.65E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.42E-07	0	0.00E+00	1.36E-06	0.00E+00	6.99E-09	0.00E+00	3.10E-06	6.64E-07	5.26E-06	1.00E-01	5.26E-05	1.00E+00	5.26E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.27E-05	0	0.00E+00	1.22E-04	0.00E+00	8.64E-07	0.00E+00	2.78E-04	5.96E-05	4.73E-04	8.00E-02	5.91E-03	2.90E-01	1.63E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.64E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.20E-01	0.00E+00	1.41E+01	0	0.00E+00	5.44E-01	0.00E+00	2.42E-01	0.00E+00	6.20E-01	1.33E-01	1.60E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	3.14E-04	0.00E+00	1.04E-01	0	NA	2.04E-03	NA	1.42E-02	0.00E+00	3.01E-02	6.45E-03	1.57E-01	8.00E+00	1.96E-02	8.00E+01	1.96E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.43E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-02	8.80E+01	2.76E-04	2.84E+02	8.55E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E-01	mg/kg	1.00E+00		7.50E-01	2.63E+00	NA	6.77E-01	6.77E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.28E-04	0	0.00E+00	6.42E-04	NA	6.62E-04	0.00E+00	5.21E-04	1.12E-04	2.16E-03	1.00E+00	2.16E-03	3.00E+00	7.22E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	9.95E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.11E-02	6.11E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.57E-03	0	0.00E+00	9.70E-03	0.00E+00	2.24E-03	0.00E+00	1.86E-02	3.99E-03	4.31E-02	4.00E+01	1.08E-03	8.00E+01	5.39E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	1.21E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.67E-02	0.00E+00	1.04E-03	0	0.00E+00	3.33E-04	0.00E+00	9.32E-04	0.00E+00	2.87E-03	6.15E-04	4.25E-02	5.07E+02	8.39E-05	1.13E+03	3.76E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.26E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	5.07E+02	8.40E-06	1.13E+03	3.77E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.36E-07	0	0.00E+00	4.08E-06	0.00E+00	5.12E-08	0.00E+00	9.54E-06	2.04E-06	1.62E-05	2.40E-01	6.73E-05	2.40E+00	6.73E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E+00	mg/kg	1.00E+00			3.00E-01	NA	7.16E+00	7.16E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.52E-03	0	0.00E+00	8.09E-04	NA	7.72E-02	0.00E+00	6.96E-03	1.49E-03	8.90E-02	8.50E+00	1.05E-02	2.55E+01	3.49E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.17E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	8.89E-01	4.92E-01	5.15E-01	5.15E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	1.01E-03	0	0.00E+00	9.59E-04	0.00E+00	2.22E-03	0.00E+00	3.80E-03	8.15E-04	8.81E-03	2.00E-01	4.40E-02	3.30E-01	2.67E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.84E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.30E-02	0	0.00E+00	3.08E-03	0.00E+00	2.97E-02	0.00E+00	9.13E-02	1.96E-02	1.77E-01	2.63E+02	6.72E-04	7.89E+02	2.24E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	9.41E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.94E-01	0.00E+00	8.09E-02	0	0.00E+00	2.60E-02	0.00E+00	7.27E-02	0.00E+00	2.24E-01	4.79E-02	8.45E-01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.72E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.34E-07	0	0.00E+00	2.27E-06	0.00E+00	9.32E-09	0.00E+00	5.11E-06	1.10E-06	8.72E-06	4.58E+00	1.90E-06	9.16E+00	9.52E-07
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.48E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.02E-03	0.00E+00	2.14E-02	0	0.00E+00	9.60E-04	0.00E+00	3.29E-04	0.00E+00	2.93E-03	6.27E-04	2.82E-02	2.10E-01	1.34E-01	2.10E+00	1.34E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	5.34E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.44E-01	8.44E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	4.59E-02	0	0.00E+00	2.36E-02	0.00E+00	1.66E-01	0.00E+00	2.11E-01	4.53E-02	4.92E-01	1.60E+02	3.07E-03	3.20E+02	1.54E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	9.2E-05	2.5E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.1E-04	1.6E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.9E-02	2.9E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.8E-03	3.1E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using m

Table O-37
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Muskrat at the Longhorn Army Ammunition Plant
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.18E-09	6.11E-08	0.00E+00	0	0.00E+00	0.00E+00	1.33E-09	3.11E-10	1.33E-09	0.00E+00	0.00E+00	6.53E-08	1.00E-06	6.53E-02	1.00E-05	6.53E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	0.00E+00	1.04E-06	8.00E-01	1.30E-06	4.00E+00	2.60E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.28E-05	0.00E+00	0.00E+00	0.00E+00	8.28E-05	8.00E-01	1.03E-04	4.00E+00	2.07E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.57E-06	0.00E+00	0.00E+00	0.00E+00	3.57E-06	8.00E-01	4.46E-06	4.00E+00	8.92E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.46E-08	0.00E+00	0.00E+00	0.00E+00	7.46E-08	2.00E-01	3.73E-07	1.00E+00	7.46E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.15E-07	0.00E+00	0.00E+00	0.00E+00	6.15E-07	4.58E+00	1.34E-07	9.16E+00	6.71E-08
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.93E-01	6.68E+01	0.00E+00	0	0.00E+00	0.00E+00	7.36E-01	1.25E-01	7.36E-01	0.00E+00	0.00E+00	6.90E+01	1.93E+00	3.58E+01	1.93E+01	3.58E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.30E-03	0.00E+00	0.00E+00	0.00E+00	1.30E-03	1.25E-01	1.04E-02	1.25E+00	1.04E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.31E-06	0.00E+00	0.00E+00	0.00E+00	8.31E-06	6.85E-02	1.21E-04	6.85E-01	1.21E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.08E-07	0.00E+00	0.00E+00	0.00E+00	1.08E-07	6.80E-02	1.58E-06	6.80E-01	1.58E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	3.67E-06	6.80E-02	5.40E-05	6.80E-01	5.40E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.64E-07	0.00E+00	0.00E+00	0.00E+00	5.64E-07	6.80E-02	8.30E-06	6.80E-01	8.30E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.12E-01	0.00E+00	0	0.00E+00	NA	3.19E+00	0.00E+00	3.19E+00	0.00E+00	0.00E+00	7.29E+00	5.10E+00	1.43E+00	1.98E+01	3.68E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	8.11E-01	9.22E-01	9.22E-01	2.42E-04	3.78E-03	0.00E+00	0	0.00E+00	0.00E+00	1.47E-02	2.75E-03	1.47E-02	0.00E+00	0.00E+00	3.61E-02	1.00E+00	3.61E-02	1.00E+01	3.61E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.44E-08	0.00E+00	0.00E+00	0.00E+00	5.44E-08	4.58E+00	1.19E-08	9.16E+00	5.94E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.31E-02	0.00E+00	0.00E+00	0.00E+00	6.31E-02	3.28E+00	1.92E-02	2.74E+04	2.30E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.96E-04	0.00E+00	0.00E+00	0.00E+00	8.96E-04	3.28E+00	2.73E-04	2.74E+03	3.27E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.01E-07	0.00E+00	0.00E+00	0.00E+00	1.01E-07	4.58E+00	2.20E-08	9.16E+00	1.10E-08
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	5.86E-01	1.49E-01	1.49E-01	1.15E-03	4.96E-02	0.00E+00	0	0.00E+00	0.00E+00	1.39E-01	4.49E-02	1.39E-01	0.00E+00	0.00E+00	3.74E-01	1.17E+01	3.20E-02	1.51E+01	2.47E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.96E-06	0.00E+00	0.00E+00	0.00E+00	3.96E-06	2.00E-02	1.98E-04	2.00E-01	1.98E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.07E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-07	9.20E-02	1.16E-06	9.20E-01	1.16E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	0.00E+00	2.88E-06	4.58E+00	6.29E-07	9.16E+00	3.14E-07
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.46E-08	0.00E+00	0.00E+00	0.00E+00	2.46E-08	1.00E-01	2.46E-07	1.00E+00	2.46E-08
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.45E-08	0.00E+00	0.00E+00	0.00E+00	2.45E-08	8.00E-02	3.07E-07	2.90E-01	8.46E-08
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.80E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.93E-01	0.00E+00	0.00E+00	0.00E+00	1.07E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	4.21E-04	0.00E+00	0	0.00E+00	0.00E+00	2.84E-02	0.00E+00	2.84E-02	0.00E+00	0.00E+00	5.71E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	5.03E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	3.53E-02	NA	0.00E+00	0.00E+00	3.58E-02	8.00E+00	4.48E-03	8.00E+01	4.48E-04
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.41E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-02	8.80E+01	5.01E-04	2.84E+02	1.55E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	2.38E-03	NA	0.00E+00	0.00E+00	2.38E-03	1.32E+01	1.81E-04	3.96E+01	6.02E-05
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	1.08E+00			0.00E+00	6.60E-04	0.00E+00	0	0.00E+00	NA	3.42E-03	NA	3.42E-03	0.00E+00	0.00E+00	7.50E-03	3.20E-02	2.34E-01	1.60E-01	4.69E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.21E-02	1.01E-01	1.01E-01	0.00E+00	6.43E-02	0.00E+00	0	0.00E+00	0.00E+00	1.91E-02	4.10E-03	1.91E-02	0.00E+00	0.00E+00	1.07E-01	4.00E+01	2.67E-03	8.00E+01	1.33E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.42E-02	8.94E-04	0.00E+00	0	0.00E+00	0.00E+00	1.50E-03	2.87E-03	1.50E-03	0.00E+00	0.00E+00	9.10E-02	5.07E+02	1.79E-04	1.13E+03	8.05E-05
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.86E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	5.07E+02	1.35E-05	1.13E+03	6.07E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.76E-07	0.00E+00	0.00E+00	0.00E+00	1.76E-07	2.40E-01	7.33E-07	2.40E+00	7.33E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	1.74E-01	0.00E+00	0.00E+00	0.00E+00	1.74E-01	8.50E+00	2.05E-02	2.55E+01	6.83E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	4.99E-01	1.95E-01	1.95E-01	0.00E+00	5.97E-03	0.00E+00	0	0.00E+00	0.00E+00	1.43E-02	1.08E-02	1.43E-02	0.00E+00	0.00E+00	4.53E-02	2.00E-01	2.26E-01	3.30E-01	1.37E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.81E-02	0.00E+00	0.00E+00	0.00E+00	6.81E-02	2.63E+02	2.59E-04	7.89E+02	8.63E-05
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.92E-01	1.38E-01	0.00E+00	0	0.00E+00	0.00E+00	2.31E-01	4.50E-01	2.31E-01	0.00E+00	0.00E+00	1.64E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	4.91E-03	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	7.40E-03	6.63E-01	7.40E-02	6.63E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	1.06E-07	4.58E+00	2.32E-08	9.16E+00	1.16E-08
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.23E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.45E-04	0.00E+00	0.00E+00	0.00E+00	3.98E-03	2.10E-01	1.89E-02	2.10E+00	1.89E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	9.78E-01	4.51E-01	4.51E-01	0.00E+00	2.63E-01	0.00E+00	0	0.00E+00	0.00E+00	1.23E+00	4.03E-01	1.23E+00	0.00E+00	0.00E+00	3.13E+00	1.60E+02	1.96E-02	3.20E+02	9.78E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.1E-06	4.3E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-04	2.2E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-04	1.9E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.0E-04	2.0E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, av

Table O-38
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.04E-09	3.85E-08	0.00E+00	0	0.00E+00	0.00E+00	7.15E-10	2.10E-10	7.15E-10	0.00E+00	0.00E+00	4.12E-08	1.00E-06	4.12E-02	1.00E-05	4.12E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-07	8.00E-01	3.87E-07	4.00E+00	7.73E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	1.43E-05	8.00E-01	1.78E-05	4.00E+00	3.56E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.02E-06	0.00E+00	0.00E+00	0.00E+00	1.02E-06	8.00E-01	1.28E-06	4.00E+00	2.56E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.92E-08	0.00E+00	0.00E+00	0.00E+00	4.92E-08	2.00E-01	2.46E-07	1.00E+00	4.92E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.78E-08	0.00E+00	0.00E+00	0.00E+00	8.78E-08	4.58E+00	1.92E-08	9.16E+00	9.58E-09
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.04E-01	5.58E+01	0.00E+00	0	0.00E+00	0.00E+00	4.00E-01	7.75E-02	4.00E-01	0.00E+00	0.00E+00	5.71E+01	1.93E+00	2.96E+01	1.93E+01	2.96E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.47E-04	0.00E+00	0.00E+00	0.00E+00	6.47E-04	1.25E-01	5.17E-03	1.25E+00	5.17E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.63E-07	0.00E+00	0.00E+00	0.00E+00	3.63E-07	6.85E-02	5.29E-06	6.85E-01	5.29E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.83E-08	0.00E+00	0.00E+00	0.00E+00	7.83E-08	6.80E-02	1.15E-06	6.80E-01	1.15E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	1.14E-06	6.80E-02	1.67E-05	6.80E-01	1.67E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.94E-08	0.00E+00	0.00E+00	0.00E+00	6.94E-08	6.80E-02	1.02E-06	6.80E-01	1.02E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	8.14E-01	0.00E+00	0	0.00E+00	NA	2.84E+00	0.00E+00	2.84E+00	0.00E+00	0.00E+00	6.50E+00	5.10E+00	1.28E+00	1.98E+01	3.28E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	8.80E-01	6.72E-01	6.72E-01	2.02E-04	3.15E-03	0.00E+00	0	0.00E+00	0.00E+00	1.33E-02	2.66E-03	1.33E-02	0.00E+00	0.00E+00	3.26E-02	1.00E+00	3.26E-02	1.00E+01	3.26E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.09E-08	0.00E+00	0.00E+00	0.00E+00	1.09E-08	4.58E+00	2.38E-09	9.16E+00	1.19E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.14E-03	0.00E+00	0.00E+00	0.00E+00	5.14E-03	3.28E+00	1.57E-03	2.74E+04	1.88E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	7.29E-05	3.28E+00	2.22E-05	2.74E+03	2.66E-08
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	1.89E-08	4.58E+00	4.12E-09	9.16E+00	2.06E-09
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	6.44E-01	8.97E-02	8.97E-02	9.04E-04	4.25E-02	0.00E+00	0	0.00E+00	0.00E+00	1.31E-01	4.38E-02	1.31E-01	0.00E+00	0.00E+00	3.49E-01	1.17E+01	2.99E-02	1.51E+01	2.31E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.90E-08	0.00E+00	0.00E+00	0.00E+00	4.90E-08	2.00E-02	2.45E-06	2.00E-01	2.45E-07
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.66E-08	0.00E+00	0.00E+00	0.00E+00	6.66E-08	9.20E-02	7.24E-07	9.20E-01	7.24E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.69E-07	0.00E+00	0.00E+00	0.00E+00	3.69E-07	4.58E+00	8.07E-08	9.16E+00	4.03E-08
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.57E-08	0.00E+00	0.00E+00	0.00E+00	1.57E-08	1.00E-01	1.57E-07	1.00E+00	1.57E-08
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.79E-08	0.00E+00	0.00E+00	0.00E+00	1.79E-08	8.00E-02	2.24E-07	2.90E-01	6.19E-08
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.05E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.65E-01	0.00E+00	0.00E+00	0.00E+00	8.71E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	4.21E-04	0.00E+00	0	0.00E+00	0.00E+00	2.80E-02	0.00E+00	2.80E-02	0.00E+00	0.00E+00	5.64E-02	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	3.97E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	2.99E-02	NA	0.00E+00	0.00E+00	3.03E-02	8.00E+00	3.79E-03	8.00E+01	3.79E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.07E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-02	8.80E+01	3.49E-04	2.84E+02	1.08E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	1.77E-03	NA	0.00E+00	0.00E+00	1.77E-03	1.32E+01	1.34E-04	3.96E+01	4.46E-05
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	1.15E+00			0.00E+00	5.75E-04	0.00E+00	0	0.00E+00	NA	3.18E-03	NA	3.18E-03	0.00E+00	0.00E+00	6.93E-03	3.20E-02	2.16E-01	1.60E-01	4.33E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.43E-02	8.71E-02	8.71E-02	0.00E+00	5.60E-02	0.00E+00	0	0.00E+00	0.00E+00	1.72E-02	3.91E-03	1.72E-02	0.00E+00	0.00E+00	9.44E-02	4.00E+01	2.36E-03	8.00E+01	1.18E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.65E-02	6.55E-04	0.00E+00	0	0.00E+00	0.00E+00	6.58E-04	1.40E-03	6.58E-04	0.00E+00	0.00E+00	4.99E-02	5.07E+02	9.84E-05	1.13E+03	4.41E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.39E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03	5.07E+02	1.06E-05	1.13E+03	4.77E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	1.02E-07	2.40E-01	4.26E-07	2.40E+00	4.26E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	1.27E-01	0.00E+00	0.00E+00	0.00E+00	1.27E-01	8.50E+00	1.49E-02	2.55E+01	4.98E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	4.92E-01	1.51E-01	1.51E-01	0.00E+00	5.18E-03	0.00E+00	0	0.00E+00	0.00E+00	1.22E-02	7.87E-03	1.22E-02	0.00E+00	0.00E+00	3.74E-02	2.00E-01	1.87E-01	3.30E-01	1.13E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.79E-02	0.00E+00	0.00E+00	0.00E+00	3.79E-02	2.63E+02	1.44E-04	7.89E+02	4.80E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.99E-01	9.57E-02	0.00E+00	0	0.00E+00	0.00E+00	9.62E-02	1.79E-01	9.62E-02	0.00E+00	0.00E+00	9.66E-01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	4.23E-03	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-03	7.40E-03	5.72E-01	7.40E-02	5.72E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.93E-08	0.00E+00	0.00E+00	0.00E+00	1.93E-08	4.58E+00	4.21E-09	9.16E+00	2.10E-09
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.56E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	3.19E-03	2.10E-01	1.52E-02	2.10E+00	1.52E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	1.05E+00	1.84E-01	1.84E-01	0.00E+00	2.22E-01	0.00E+00	0	0.00E+00	0.00E+00	1.12E+00	3.86E-01	1.12E+00	0.00E+00	0.00E+00	2.85E+00	1.60E+02	1.78E-02	3.20E+02	8.90E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	2.7E-07	7.1E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.9E-05	3.9E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.4E-05	2.4E-06
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	3.4E-06	3.7E-07

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg B

Table O-39
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	3.55E-10	1.97E-09	0.00E+00	3.19E-05	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-10	3.20E-05	1.00E-06	3.20E+01	1.00E-05	3.20E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-06	1.74E-06	8.00E-01	2.18E-06	4.00E+00	4.35E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-05	1.54E-05	8.00E-01	1.93E-05	4.00E+00	3.86E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06	8.63E-06	8.00E-01	1.08E-05	4.00E+00	2.16E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-06	1.48E-06	2.00E-01	7.39E-06	1.00E+00	1.48E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-06	2.05E-06	4.58E+00	4.47E-07	9.16E+00	2.23E-07
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.78E-01	2.15E+00	0.00E+00	4.04E-01	3.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-02	4.00E+01	1.93E+00	2.07E+01	1.93E+01	2.07E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-04	3.58E-04	1.25E-01	2.87E-03	1.25E+00	2.87E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-06	6.83E-06	6.85E-02	9.97E-05	6.85E-01	9.97E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-06	1.43E-06	6.80E-02	2.10E-05	6.90E-01	2.07E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-05	5.13E-05	6.80E-02	7.54E-04	6.90E-01	7.43E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	2.77E-05	6.80E-02	4.08E-04	6.90E-01	4.02E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.94E-02	0.00E+00	0.00E+00	5.08E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-01	5.10E+00	1.05E-01	1.98E+01	2.72E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	7.24E-05	1.22E-04	0.00E+00	6.23E-02	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	6.65E-02	1.00E+00	6.65E-02	1.00E+01	6.65E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-07	1.81E-07	4.58E+00	3.95E-08	9.16E+00	1.98E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-03	5.10E-03	3.28E+00	1.55E-03	2.74E+04	1.86E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-05	7.24E-05	3.28E+00	2.21E-05	2.74E+03	2.64E-08
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-07	3.35E-07	4.58E+00	7.31E-08	9.16E+00	3.65E-08
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	3.44E-04	1.60E-03	0.00E+00	1.07E+00	3.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	1.11E+00	1.17E+01	9.48E-02	1.51E+01	7.33E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-07	3.24E-07	2.00E-02	1.62E-05	2.00E-01	1.62E-06
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-07	3.95E-07	9.20E-02	4.29E-06	9.20E-01	4.29E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-06	9.58E-06	4.58E+00	2.09E-06	9.16E+00	1.05E-06
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-07	2.07E-07	1.00E-01	2.07E-06	1.00E+00	2.07E-07
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-07	1.74E-07	8.00E-02	2.18E-06	2.90E-01	6.01E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.74E-01	0.00E+00	0.00E+00	9.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	9.20E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.35E-05	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.51E-04	0.00E+00	0.00E+00	1.19E-01	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.02E-03	1.22E-01	8.00E+00	1.52E-02	8.00E+01	1.52E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.32E-02	0.00E+00	0.00E+00	1.40E+01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+01	8.80E+01	1.59E-01	2.84E+02	4.92E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	6.99E-05	6.99E-05	1.00E+00	6.99E-05	3.00E+00	2.33E-05
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.13E-05	0.00E+00	0.00E+00	6.13E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	8.26E-05	1.50E-02	5.50E-03	2.50E-02	3.30E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	2.07E-03	0.00E+00	0.00E+00	1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-04	2.13E-02	4.00E+01	5.33E-04	8.00E+01	2.66E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.52E-02	2.88E-05	0.00E+00	1.42E+01	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	1.43E+01	5.07E+02	2.81E-02	1.13E+03	1.26E-02
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.06E-03	0.00E+00	0.00E+00	1.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00	5.07E+02	2.29E-03	1.13E+03	1.03E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-07	7.05E-07	2.40E-01	2.94E-06	2.40E+00	2.94E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.13E-04	5.13E-04	8.50E+00	6.03E-05	2.55E+01	2.01E-05
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	1.92E-04	0.00E+00	0.00E+00	3.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-04	3.96E-03	2.00E-01	1.98E-02	3.30E-01	1.20E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	3.76E-03	2.63E+02	1.43E-05	7.89E+02	4.77E-06
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.77E-01	4.43E-03	0.00E+00	9.99E+01	3.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-02	1.00E+02	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.58E-04	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	7.40E-03	3.91E-01	7.40E-02	3.91E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-07	3.53E-07	4.58E+00	7.71E-08	9.16E+00	3.85E-08
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	9.70E-04	0.00E+00	0.00E+00	5.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	5.48E-01	2.10E-01	2.61E+00	2.10E+00	2.61E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	8.47E-03	0.00E+00	0.00E+00	2.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-02	2.83E-01	1.60E+02	1.77E-03	3.20E+02	8.85E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	4.8E-06	1.6E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.2E-05	6.5E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-03	1.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/D

Table O-40
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.29E-10	9.15E-10	0.00E+00	2.793E-06	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-10	2.81E-06	1.00E-06	2.81E+00	1.00E-05	2.81E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-07	8.31E-07	8.00E-01	1.04E-06	4.00E+00	2.08E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	8.48E-06	8.00E-01	1.06E-05	4.00E+00	2.12E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-06	2.79E-06	8.00E-01	3.48E-06	4.00E+00	6.97E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-07	7.62E-07	2.00E-01	3.81E-06	1.00E+00	7.62E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-07	7.08E-07	4.58E+00	1.55E-07	9.16E+00	7.73E-08
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.93E-02	1.32E+00	0.00E+00	0.2025714	2.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-02	2.46E+01	1.93E+00	1.27E+01	1.93E+01	1.27E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	1.66E-04	1.25E-01	1.33E-03	1.25E+00	1.33E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06	3.25E-06	6.85E-02	4.75E-05	6.85E-01	4.75E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-07	7.03E-07	6.80E-02	1.03E-05	6.90E-01	1.02E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	1.36E-05	6.80E-02	2.00E-04	6.90E-01	1.97E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	1.55E-05	6.80E-02	2.28E-04	6.90E-01	2.25E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.93E-02	0.00E+00	0	3.35E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-01	5.10E+00	6.94E-02	1.98E+01	1.79E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	4.48E-05	7.49E-05	0.00E+00	0.0271349	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	2.76E-02	1.00E+00	2.76E-02	1.00E+01	2.76E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-08	8.80E-08	4.58E+00	1.92E-08	9.16E+00	9.61E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04	9.10E-04	3.28E+00	2.77E-04	2.74E+04	3.32E-08
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	1.29E-05	3.28E+00	3.94E-06	2.74E+03	4.72E-09
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-07	1.52E-07	4.58E+00	3.33E-08	9.16E+00	1.66E-08
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	2.00E-04	1.01E-03	0.00E+00	0.1172962	6.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-04	1.26E-01	1.17E+01	1.07E-02	1.51E+01	8.29E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-07	1.54E-07	2.00E-02	7.68E-06	2.00E-01	7.68E-07
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-07	2.53E-07	9.20E-02	2.75E-06	9.20E-01	2.75E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-06	2.98E-06	4.58E+00	6.51E-07	9.16E+00	3.25E-07
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-07	1.03E-07	1.00E-01	1.03E-06	1.00E+00	1.03E-07
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-08	8.50E-08	8.00E-02	1.06E-06	2.90E-01	2.93E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.97E-02	0.00E+00	0.00E+00	11.834088	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-02	1.19E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	9.99E-06	0.00E+00	0	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	8.79E-05	0.00E+00	0.00E+00	0.0207722	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.69E-04	2.18E-02	8.00E+00	2.73E-03	8.00E+01	2.73E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.80E-03	0.00E+00	0.00E+00	0.8974769	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-01	8.80E+01	1.03E-02	2.84E+02	3.18E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.63E-05	2.63E-05	1.00E+00	2.63E-05	3.00E+00	8.77E-06
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.37E-05	0.00E+00	0	3.94E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.31E-05	1.50E-02	3.54E-03	2.50E-02	2.12E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	1.33E-03	0.00E+00	0	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-04	4.27E-03	4.00E+01	1.07E-04	8.00E+01	5.34E-05
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-02	1.56E-05	0.00E+00	1.6333972	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-05	1.64E+00	5.07E+02	3.24E-03	1.13E+03	1.45E-03
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.19E-03	0.00E+00	0.00E+00	0.1892839	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	5.07E+02	3.76E-04	1.13E+03	1.69E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-07	2.81E-07	2.40E-01	1.17E-06	2.40E+00	1.17E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.48E-04	1.48E-04	8.50E+00	1.74E-05	2.55E+01	5.79E-06
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	1.23E-04	0.00E+00	0	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	2.44E-03	2.00E-01	1.22E-02	3.30E-01	7.39E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	1.72E-03	2.63E+02	6.53E-06	7.89E+02	2.18E-06
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.10E-01	2.27E-03	0.00E+00	17.513023	3.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-03	1.76E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.01E-04	0.00E+00	0	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	7.40E-03	2.49E-01	7.40E-02	2.49E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-07	1.55E-07	4.58E+00	3.39E-08	9.16E+00	1.70E-08
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.67E-04	0.00E+00	0.00E+00	0.0900002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	9.06E-02	2.10E-01	4.32E-01	2.10E+00	4.32E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	5.27E-03	0.00E+00	0	3.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-03	5.27E-02	1.60E+02	3.29E-04	3.20E+02	1.65E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.9E-06	5.5E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-05	3.0E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.9E-04	4.8E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.4E-05	1.8E-06

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th perc

Table O-41
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d		
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.93E-09	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.18E-09	0.00E+00	0.00E+00	0.00E+00	5.10E-09	1.00E-06	5.10E-03	1.00E-05	5.10E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	1.06E-05	8.00E-01	1.32E-05	4.00E+00	2.65E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.45E-04	0.00E+00	0.00E+00	0.00E+00	8.45E-04	8.00E-01	1.06E-03	4.00E+00	2.11E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	3.64E-05	8.00E-01	4.55E-05	4.00E+00	9.10E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.62E-07	0.00E+00	0.00E+00	0.00E+00	7.62E-07	2.00E-01	3.81E-06	1.00E+00	7.62E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.28E-06	0.00E+00	0.00E+00	0.00E+00	6.28E-06	4.58E+00	1.37E-06	9.16E+00	6.85E-07
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	9.65E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00	2.24E+00	1.93E+00	1.16E+00	1.93E+01	1.16E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.32E-02	0.00E+00	0.00E+00	0.00E+00	1.32E-02	1.25E-01	1.06E-01	1.25E+00	1.06E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	8.48E-05	6.85E-02	1.24E-03	6.85E-01	1.24E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.10E-06	0.00E+00	0.00E+00	0.00E+00	1.10E-06	6.80E-02	1.62E-05	6.80E-01	1.62E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	3.75E-05	6.80E-02	5.51E-04	6.80E-01	5.51E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.76E-06	0.00E+00	0.00E+00	0.00E+00	5.76E-06	6.80E-02	8.47E-05	6.80E-01	8.47E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	3.93E-04	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.81E-02	0.00E+00	0.00E+00	0.00E+00	2.85E-02	1.00E+00	2.85E-02	1.00E+01	2.85E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.55E-07	0.00E+00	0.00E+00	0.00E+00	5.55E-07	4.58E+00	1.21E-07	9.16E+00	6.06E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.44E-01	0.00E+00	0.00E+00	0.00E+00	6.44E-01	3.28E+00	1.96E-01	2.74E+04	2.35E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	9.14E-03	0.00E+00	0.00E+00	0.00E+00	9.14E-03	3.28E+00	2.79E-03	2.74E+03	3.34E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.03E-06	0.00E+00	0.00E+00	0.00E+00	1.03E-06	4.58E+00	2.24E-07	9.16E+00	1.12E-07
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	1.86E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.58E-01	0.00E+00	0.00E+00	0.00E+00	4.60E-01	1.17E+01	3.93E-02	1.51E+01	3.04E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	4.04E-05	2.00E-02	2.02E-03	2.00E-01	2.02E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	1.09E-06	9.20E-02	1.18E-05	9.20E-01	1.18E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	2.94E-05	4.58E+00	6.41E-06	9.16E+00	3.21E-06
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.51E-07	0.00E+00	0.00E+00	0.00E+00	2.51E-07	1.00E-01	2.51E-06	1.00E+00	2.51E-07
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	0.00E+00	2.50E-07	8.00E-02	3.13E-06	2.90E-01	8.63E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	9.44E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.04E+00	0.00E+00	0.00E+00	0.00E+00	5.98E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	8.18E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	3.60E-01	0.00E+00	0.00E+00	0.00E+00	3.61E-01	8.00E+00	4.52E-02	8.00E+01	4.52E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.17E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-02	8.80E+01	8.15E-04	2.84E+02	2.53E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	2.43E-02	0.00E+00	0.00E+00	0.00E+00	2.43E-02	1.32E+01	1.84E-03	3.96E+01	6.15E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.18E-02	0.00E+00	0.00E+00	0.00E+00	4.18E-02	4.00E+01	1.05E-03	8.00E+01	5.23E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.37E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.93E-02	0.00E+00	0.00E+00	0.00E+00	1.66E-01	5.07E+02	3.28E-04	1.13E+03	1.47E-04
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.11E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	5.07E+02	2.20E-05	1.13E+03	9.87E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.79E-06	0.00E+00	0.00E+00	0.00E+00	1.79E-06	2.40E-01	7.48E-06	2.40E+00	7.48E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	1.78E+00	0.00E+00	0.00E+00	0.00E+00	1.78E+00	8.50E+00	2.09E-01	2.55E+01	6.97E-02
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00	0.00E+00	1.10E-01	2.00E-01	5.49E-01	3.30E-01	3.33E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.94E-01	0.00E+00	0.00E+00	0.00E+00	6.94E-01	2.63E+02	2.64E-03	7.89E+02	8.80E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.62E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.59E+00	0.00E+00	0.00E+00	0.00E+00	5.56E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.08E-06	0.00E+00	0.00E+00	0.00E+00	1.08E-06	4.58E+00	2.36E-07	9.16E+00	1.18E-07
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	5.26E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.60E-03	0.00E+00	0.00E+00	0.00E+00	1.29E-02	2.10E-01	6.12E-02	2.10E+00	6.12E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.11E+00	0.00E+00	0.00E+00	0.00E+00	4.11E+00	1.60E+02	2.57E-02	3.20E+02	1.29E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.1E-05	4.4E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-03	2.2E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-03	1.9E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.0E-03	2.0E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using

Table O-42
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	9.99E-10	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.27E-09	0.00E+00	0.00E+00	0.00E+00	2.27E-09	1.00E-06	2.27E-03	1.00E-05	2.27E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	0.00E+00	1.87E-06	8.00E-01	2.34E-06	4.00E+00	4.68E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	8.62E-05	8.00E-01	1.08E-04	4.00E+00	2.16E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	6.20E-06	8.00E-01	7.75E-06	4.00E+00	1.55E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.98E-07	0.00E+00	0.00E+00	0.00E+00	2.98E-07	2.00E-01	1.49E-06	1.00E+00	2.98E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.31E-07	0.00E+00	0.00E+00	0.00E+00	5.31E-07	4.58E+00	1.16E-07	9.16E+00	5.80E-08
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.89E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.69E-01	0.00E+00	0.00E+00	0.00E+00	8.58E-01	1.93E+00	4.45E-01	1.93E+01	4.45E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.91E-03	0.00E+00	0.00E+00	0.00E+00	3.91E-03	1.25E-01	3.13E-02	1.25E+00	3.13E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	0.00E+00	2.19E-06	6.85E-02	3.20E-05	6.85E-01	3.20E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.74E-07	0.00E+00	0.00E+00	0.00E+00	4.74E-07	6.80E-02	6.97E-06	6.80E-01	6.97E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	6.88E-06	6.80E-02	1.01E-04	6.80E-01	1.01E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.20E-07	0.00E+00	0.00E+00	0.00E+00	4.20E-07	6.80E-02	6.18E-06	6.80E-01	6.18E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	1.95E-04	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.61E-02	0.00E+00	0.00E+00	0.00E+00	1.63E-02	1.00E+00	1.63E-02	1.00E+01	1.63E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.60E-08	0.00E+00	0.00E+00	0.00E+00	6.60E-08	4.58E+00	1.44E-08	9.16E+00	7.21E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.11E-02	0.00E+00	0.00E+00	0.00E+00	3.11E-02	3.28E+00	9.47E-03	2.74E+04	1.14E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	4.41E-04	3.28E+00	1.34E-04	2.74E+03	1.61E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	1.14E-07	4.58E+00	2.49E-08	9.16E+00	1.25E-08
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	8.72E-04	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.65E-01	0.00E+00	0.00E+00	0.00E+00	2.66E-01	1.17E+01	2.27E-02	1.51E+01	1.76E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.96E-07	0.00E+00	0.00E+00	0.00E+00	2.96E-07	2.00E-02	1.48E-05	2.00E-01	1.48E-06
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.03E-07	0.00E+00	0.00E+00	0.00E+00	4.03E-07	9.20E-02	4.38E-06	9.20E-01	4.38E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	2.23E-06	4.58E+00	4.88E-07	9.16E+00	2.44E-07
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	9.53E-08	0.00E+00	0.00E+00	0.00E+00	9.53E-08	1.00E-01	9.53E-07	1.00E+00	9.53E-08
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	1.09E-07	8.00E-02	1.36E-06	2.90E-01	3.74E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.91E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.82E+00	0.00E+00	0.00E+00	0.00E+00	3.21E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.83E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	1.81E-01	0.00E+00	0.00E+00	0.00E+00	1.81E-01	8.00E+00	2.27E-02	8.00E+01	2.27E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.96E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-02	8.80E+01	3.37E-04	2.84E+02	1.04E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	1.07E-02	0.00E+00	0.00E+00	0.00E+00	1.07E-02	1.32E+01	8.10E-04	3.96E+01	2.70E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	7.00E-01	0.00E+00
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.36E-02	0.00E+00	0.00E+00	0.00E+00	2.36E-02	4.00E+01	5.91E-04	8.00E+01	2.95E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.48E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.49E-03	0.00E+00	0.00E+00	0.00E+00	5.33E-02	5.07E+02	1.05E-04	1.13E+03	4.72E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.20E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03	5.07E+02	1.02E-05	1.13E+03	4.60E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.19E-07	0.00E+00	0.00E+00	0.00E+00	6.19E-07	2.40E-01	2.58E-06	2.40E+00	2.58E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	7.68E-01	0.00E+00	0.00E+00	0.00E+00	7.68E-01	8.50E+00	9.04E-02	2.55E+01	3.01E-02
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.76E-02	0.00E+00	0.00E+00	0.00E+00	4.76E-02	2.00E-01	2.38E-01	3.30E-01	1.44E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.29E-01	0.00E+00	0.00E+00	0.00E+00	2.29E-01	2.63E+02	8.72E-04	7.89E+02	2.91E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.81E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.09E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.17E-07	0.00E+00	0.00E+00	0.00E+00	1.17E-07	4.58E+00	2.55E-08	9.16E+00	1.27E-08
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.47E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	6.28E-03	2.10E-01	2.99E-02	2.10E+00	2.99E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.33E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+00	1.60E+02	1.46E-02	3.20E+02	7.29E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.6E-06	4.3E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.2E-04	2.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.5E-04	1.5E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.1E-05	2.2E-06

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 =

Table O-43
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.44E-10	1.41E-09	0.00E+00	3.626E-06	3.09E-08	0.00E+00	4.49E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-06	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.22E-01	1.54E+00	0.00E+00	0.0459392	6.93E+00	0.00E+00	2.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.10E-02	0.00E+00	0	9.46E-02	NA	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	8.11E-01	9.22E-01	9.22E-01	4.97E-05	8.70E-05	0.00E+00	0.0070874	6.96E-04	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.79E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.54E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	5.86E-01	1.49E-01	1.49E-01	2.36E-04	1.14E-03	0.00E+00	0.1220987	6.01E-03	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-01	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.20E-01	0.00E+00	0.00E+00	10.448494	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	9.68E-06	0.00E+00	0	2.12E-04	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	1.04E-04	0.00E+00	0.00E+00	0.0135836	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	NA	NA	NA	NA
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.09E-03	0.00E+00	0.00E+00	1.5887382	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+00	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	1.08E+00			0.00E+00	1.52E-05	0.00E+00	0	1.14E-05	NA	1.15E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.42E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.21E-02	1.01E-01	1.01E-01	0.00E+00	1.48E-03	0.00E+00	0	3.44E-03	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03	NA	NA	NA	NA
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.73E-02	2.06E-05	0.00E+00	1.619031	4.33E-05	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E+00	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.41E-03	0.00E+00	0.00E+00	0.1318219	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	4.99E-01	1.95E-01	1.95E-01	0.00E+00	1.38E-04	0.00E+00	0	6.20E-04	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.22E-01	3.17E-03	0.00E+00	11.372196	6.66E-03	0.00E+00	7.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.13E-04	0.00E+00	0	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.66E-04	0.00E+00	0.00E+00	0.0621748	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	9.78E-01	4.51E-01	4.51E-01	0.00E+00	6.06E-03	0.00E+00	0	4.57E-02	0.00E+00	4.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.5930505	acres
Water intake rate =	0.112	L/d
Site Area =	262	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-44
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.13E-10	8.87E-10	0.00E+00	4.306E-07	4.15E-09	0.00E+00	2.41E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-07	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.31E-02	1.28E+00	0.00E+00	0.0312387	5.79E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.87E-02	0.00E+00	0	8.44E-02	NA	9.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	8.80E-01	6.72E-01	6.72E-01	4.17E-05	7.26E-05	0.00E+00	0.0041845	4.36E-05	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.42E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	6.44E-01	8.97E-02	8.97E-02	1.86E-04	9.79E-04	0.00E+00	0.0180883	1.53E-03	0.00E+00	4.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.35E-02	0.00E+00	0.00E+00	1.8249417	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	9.68E-06	0.00E+00	0	4.53E-05	0.00E+00	9.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	8.18E-05	0.00E+00	0.00E+00	0.0032033	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	NA	NA	NA	NA
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.33E-03	0.00E+00	0.00E+00	0.1384004	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-01	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	1.15E+00			0.00E+00	1.33E-05	0.00E+00	0	9.95E-06	NA	1.07E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.30E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.43E-02	8.71E-02	8.71E-02	0.00E+00	1.29E-03	0.00E+00	0	6.27E-04	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	NA	NA	NA	NA
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.58E-03	1.51E-05	0.00E+00	0.2518872	6.34E-06	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.11E-03	0.00E+00	0.00E+00	0.0291896	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	4.92E-01	1.51E-01	1.51E-01	0.00E+00	1.19E-04	0.00E+00	0	5.37E-04	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-01	2.20E-03	0.00E+00	2.7006937	9.27E-04	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	9.74E-05	0.00E+00	0	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.28E-04	0.00E+00	0.00E+00	0.013879	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	1.05E+00	1.84E-01	1.84E-01	0.00E+00	5.11E-03	0.00E+00	0	9.91E-03	0.00E+00	3.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	11.21854	acres
Water intake rate =	0.112	L/d
Site Area =	262	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-45
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.92E-09	2.09E-08	0.00E+00	0	8.26E-06	9.81E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-06	1.40E-05	6.62E-01	1.40E-04	6.62E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	2.80E-03	4.64E-02	2.80E-02	4.64E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03	5.80E-02	2.31E-02	5.80E-01	2.31E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04	2.80E-03	1.65E-01	2.80E-02	1.65E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	2.14E+00	7.24E-05	1.07E+01	1.45E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.46E+00	2.28E+01	0.00E+00	0	1.86E+03	4.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E+03	1.10E+02	1.72E+01	3.29E+02	5.72E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	4.10E-01	1.27E-03	1.23E+00	4.22E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	1.80E-01	6.03E-04	1.80E+00	6.03E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	4.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03	1.80E-01	2.41E-02	1.80E+00	2.41E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	1.80E-01	7.58E-03	1.80E+00	7.58E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.11E-01	0.00E+00	0	2.53E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E+01	2.08E+01	1.23E+00	4.17E+01	6.15E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	5.96E-04	1.29E-03	0.00E+00	0	1.86E-01	5.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-01	1.45E+00	1.33E-01	2.00E+01	9.66E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	2.14E+00	6.40E-06	1.07E+01	1.28E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	1.00E+00	1.63E-03	5.00E+00	3.26E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	2.14E+00	1.18E-05	1.07E+01	2.37E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	2.83E-03	1.69E-02	0.00E+00	0	1.61E+00	5.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E+00	4.70E+01	3.59E-02	6.17E+01	2.73E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	7.70E-02	3.08E-04	2.31E-01	1.03E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	3.00E-01	9.14E-05	9.00E-01	3.05E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-04	2.14E+00	3.39E-04	1.07E+01	6.78E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	9.20E-01	1.68E-05	2.76E+00	5.60E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.43E+00	0.00E+00	0.00E+00	0	0.00E+00	6.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.44E-04	0.00E+00	0	5.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.24E-03	0.00E+00	0.00E+00	0	NA	1.56E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-02	1.13E+00	1.49E-02	1.13E+01	1.49E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.09E-01	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	9.77E+02	1.11E-04	9.77E+03	1.11E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	4.74E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-03	4.50E-01	1.05E-02	9.00E-01	5.26E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.25E-04	0.00E+00	0	3.06E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.28E-03	6.40E-03	5.13E-01	6.40E-02	5.13E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	2.20E-02	0.00E+00	0	9.20E-01	1.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E+00	7.74E+01	1.47E-02	1.07E+02	1.07E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.08E-01	3.05E-04	0.00E+00	0	1.16E-02	6.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-01	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.69E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	5.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-05	6.73E+00	7.64E-06	6.73E+01	7.64E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.95E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-02	6.50E+01	3.00E-04	1.30E+02	1.50E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	2.04E-03	0.00E+00	0	1.66E-01	8.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-01	1.80E+00	9.82E-02	5.40E+00	3.27E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-02	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.46E+00	4.70E-02	0.00E+00	0	1.78E+00	9.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.68E-03	0.00E+00	0	1.36E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	3.50E-01	3.94E-01	1.05E+00	1.31E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	2.14E+00	1.25E-05	1.07E+01	2.50E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	7.98E-03	0.00E+00	0.00E+00	0	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-02	1.14E+01	1.63E-03	3.42E+01	5.42E-04
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	8.99E-02	0.00E+00	0	1.22E+01	1.73E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+01	1.45E+01	8.61E-01	1.31E+02	9.53E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	4.6E-04	9.4E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.3E-01	2.3E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.4E-02	3.6E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	4.0E-04	1.3E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Table O-46
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.56E-09	1.32E-08	0.00E+00	0	1.11E-06	3.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-06	1.40E-05	1.08E-01	1.40E-04	1.08E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	2.80E-03	2.27E-02	2.80E-02	2.27E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04	5.80E-02	1.05E-02	5.80E-01	1.05E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	2.80E-03	7.81E-02	2.80E-02	7.81E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	2.14E+00	2.58E-05	1.07E+01	5.15E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.96E-01	1.90E+01	0.00E+00	0	1.55E+03	1.43E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+03	1.10E+02	1.43E+01	3.29E+02	4.77E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	4.10E-01	6.19E-04	1.23E+00	2.06E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	5.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-05	1.80E-01	3.05E-04	1.80E+00	3.05E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-03	1.80E-01	1.06E-02	1.80E+00	1.06E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	1.80E-01	3.80E-03	1.80E+00	3.80E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0	2.26E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+01	2.08E+01	1.10E+00	4.17E+01	5.49E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	5.00E-04	1.08E-03	0.00E+00	0	1.17E-02	5.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	1.45E+00	1.26E-02	2.00E+01	9.16E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	2.14E+00	3.20E-06	1.07E+01	6.40E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	1.00E+00	1.56E-03	5.00E+00	3.11E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	2.14E+00	5.54E-06	1.07E+01	1.11E-06
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	2.23E-03	1.45E-02	0.00E+00	0	4.09E-01	5.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-01	4.70E+01	1.03E-02	6.17E+01	7.82E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	7.70E-02	1.50E-04	2.31E-01	5.01E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	3.00E-01	4.60E-05	9.00E-01	1.53E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	2.14E+00	1.08E-04	1.07E+01	2.17E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-06	9.20E-01	8.55E-06	2.76E+00	2.85E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	1.44E-04	0.00E+00	0	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	9.80E-04	0.00E+00	0.00E+00	0	NA	1.15E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	1.13E+00	1.11E-02	1.13E+01	1.11E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	7.59E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-02	9.77E+02	7.77E-05	9.77E+03	7.77E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.95E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-03	4.50E-01	8.77E-03	9.00E-01	4.38E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.96E-04	0.00E+00	0	2.66E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.86E-03	6.40E-03	4.47E-01	6.40E-02	4.47E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	1.91E-02	0.00E+00	0	1.68E-01	4.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-01	7.74E+01	2.95E-03	1.07E+02	2.14E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.15E-01	2.24E-04	0.00E+00	0	1.70E-03	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.33E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	6.73E+00	3.13E-06	6.73E+01	3.13E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.00E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	6.50E-01	4.62E-05	1.30E+02	2.31E-05
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	1.77E-03	0.00E+00	0	1.44E-01	7.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-01	1.80E+00	8.48E-02	5.40E+00	2.83E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.23E+00	3.27E-02	0.00E+00	0	2.48E-01	1.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.44E-03	0.00E+00	0	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	3.50E-01	3.40E-01	1.05E+00	1.13E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	2.14E+00	5.65E-06	1.07E+01	1.13E-06
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	6.33E-03	0.00E+00	0.00E+00	0	0.00E+00	4.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	1.14E+01	9.70E-04	3.42E+01	3.23E-04
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	7.58E-02	0.00E+00	0	2.65E+00	1.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E+00	1.45E+01	1.99E-01	1.31E+02	2.20E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.6E-04	3.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-01	1.1E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.5E-02	1.7E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.0E-04	6.5E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant di

Table O-47
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.22E-09	0.00E+00	1.20E-07	0	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	1.40E-05	1.84E+00	1.40E-04	1.84E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-05	0	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-03	2.80E-03	1.22E+00	2.80E-02	1.22E-01
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.34E-04	0	0.00E+00	3.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-02	5.80E-02	6.08E-01	5.80E-01	6.08E-02
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	7.81E-05	0	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02	2.80E-03	4.34E+00	2.80E-02	4.34E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.93E-05	0	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.67E-05	0	0.00E+00	4.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03	2.14E+00	1.90E-03	1.07E+01	3.80E-04
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.11E-01	0.00E+00	9.48E+01	0	0.00E+00	1.07E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E+02	1.10E+02	1.85E+00	3.29E+02	6.16E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.24E-02	0	0.00E+00	3.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.92E-05	0	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	4.10E-01	3.32E-02	1.23E+00	1.11E-02
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.87E-05	0	0.00E+00	2.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	1.80E-01	1.58E-02	1.80E+00	1.58E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.27E-04	0	0.00E+00	1.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-01	1.80E-01	6.33E-01	1.80E+00	6.33E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.17E-04	0	0.00E+00	3.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-02	1.80E-01	1.99E-01	1.80E+00	1.99E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	2.49E-04	0.00E+00	5.18E-03	0	0.00E+00	1.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-01	1.45E+00	9.71E-02	2.00E+01	7.04E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.36E-06	0	0.00E+00	3.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	2.14E+00	1.68E-04	1.07E+01	3.37E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.33E-01	0	0.00E+00	4.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-01	1.00E+00	2.76E-01	5.00E+00	5.52E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.37E-06	0	0.00E+00	6.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-04	2.14E+00	3.11E-04	1.07E+01	6.22E-05
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	1.18E-03	0.00E+00	2.40E-01	0	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+00	4.70E+01	3.72E-02	6.17E+01	2.83E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.22E-06	0	0.00E+00	6.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-04	7.70E-02	8.10E-03	2.31E-01	2.70E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	4.88E-06	0	0.00E+00	7.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-04	3.00E-01	2.40E-03	9.00E-01	8.01E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-04	0	0.00E+00	1.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02	2.14E+00	8.90E-03	1.07E+01	1.78E-03
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.71E-06	0	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-04	9.20E-01	4.41E-04	2.76E+00	1.47E-04
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-06	0	0.00E+00	3.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.98E-01	0.00E+00	2.16E+02	0	0.00E+00	1.62E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.18E-04	0.00E+00	2.29E+00	0	NA	4.07E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.54E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-02	9.77E+02	4.65E-05	9.77E+03	4.65E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.02E-02	0	0.00E+00	1.24E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-01	4.50E-01	2.98E-01	9.00E-01	1.49E-01
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.14E-01	0	0.00E+00	5.18E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E+00	7.74E+01	6.84E-02	1.07E+02	4.95E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.67E-02	0.00E+00	1.43E-02	0	0.00E+00	1.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-01	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								7.06E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.20E-06	0	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-03	6.73E+00	2.01E-04	6.73E+01	2.01E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.64E-02	0	0.00E+00	5.08E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-01	6.50E+01	8.54E-03	1.30E+02	4.27E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	3.37E-02	0	0.00E+00	2.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-01	1.80E+00	1.47E-01	5.40E+00	4.92E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.40E-01	0	0.00E+00	9.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.09E-01	0.00E+00	2.25E+00	0	0.00E+00	2.47E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.61E-06	0	0.00E+00	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-04	2.14E+00	3.28E-04	1.07E+01	6.56E-05
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.33E-03	0.00E+00	3.26E-01	0	0.00E+00	2.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-01	1.14E+01	5.31E-02	3.42E+01	1.77E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	9.79E-01	0	0.00E+00	4.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E+00	1.45E+01	3.79E-01	1.31E+02	4.19E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.2E-02	2.5E-03
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.2E+00	6.2E-01
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	8.8E-01	9.6E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.1E-02	3.5E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction

Table O-48
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.07E-09	0.00E+00	9.48E-08	0	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	1.40E-05	7.23E-01	1.40E-04	7.23E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.93E-05	0	0.00E+00	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-03	2.80E-03	6.01E-01	2.80E-02	6.01E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.83E-04	0	0.00E+00	1.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-02	5.80E-02	2.76E-01	5.80E-01	2.76E-02
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	6.40E-05	0	0.00E+00	5.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03	2.80E-03	2.06E+00	2.80E-02	2.06E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.77E-05	0	0.00E+00	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.65E-05	0	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	2.14E+00	6.80E-04	1.07E+01	1.36E-04
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.16E-01	0.00E+00	9.05E+01	0	0.00E+00	3.74E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+02	1.10E+02	1.17E+00	3.29E+02	3.90E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.06E-02	0	0.00E+00	8.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.57E-05	0	0.00E+00	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-03	4.10E-01	1.64E-02	1.23E+00	5.45E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.64E-05	0	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	1.80E-01	8.05E-03	1.80E+00	8.05E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	5.57E-04	0	0.00E+00	5.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-02	1.80E-01	2.81E-01	1.80E+00	2.81E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.89E-04	0	0.00E+00	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	1.80E-01	1.00E-01	1.80E+00	1.00E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	2.09E-04	0.00E+00	4.86E-03	0	0.00E+00	1.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-01	1.45E+00	9.48E-02	2.00E+01	6.87E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.05E-06	0	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	2.14E+00	8.45E-05	1.07E+01	1.69E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.22E-01	0	0.00E+00	4.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-01	1.00E+00	2.63E-01	5.00E+00	5.26E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.54E-06	0	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	2.14E+00	1.46E-04	1.07E+01	2.92E-05
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	9.31E-04	0.00E+00	2.25E-01	0	0.00E+00	1.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E+00	4.70E+01	3.64E-02	6.17E+01	2.77E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.57E-06	0	0.00E+00	3.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	7.70E-02	3.97E-03	2.31E-01	1.32E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.26E-06	0	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	3.00E-01	1.21E-03	9.00E-01	4.05E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.93E-05	0	0.00E+00	6.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-03	2.14E+00	2.86E-03	1.07E+01	5.72E-04
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.39E-06	0	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	9.20E-01	2.26E-04	2.76E+00	7.52E-05
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.98E-06	0	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.18E-01	0.00E+00	2.04E+02	0	0.00E+00	7.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	4.09E-04	0.00E+00	1.70E+00	0	NA	3.01E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	2.14E+00	0.00E+00	1.13E+01	1.77E-01
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.17E-02	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-02	9.77E+02	3.24E-05	9.77E+03	3.24E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	5.86E-03	0	0.00E+00	1.03E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	4.50E-01	2.42E-01	9.00E-01	1.21E-01
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.07E-01	0	0.00E+00	1.09E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E+00	7.74E+01	1.54E-02	1.07E+02	1.12E-02
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.79E-02	0.00E+00	1.17E-02	0	0.00E+00	3.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-02	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.55E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.53E-06	0	0.00E+00	5.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	6.73E+00	8.26E-05	6.73E+01	8.26E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.72E-02	0	0.00E+00	7.83E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01	6.50E+01	1.62E-03	1.30E+02	8.11E-04
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	2.54E-02	0	0.00E+00	1.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-01	1.80E+00	1.19E-01	5.40E+00	3.96E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.16E-01	0	0.00E+00	2.64E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-01	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	5.14E-01	0.00E+00	1.50E+00	0	0.00E+00	4.31E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.62E-06	0	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	2.14E+00	1.49E-04	1.07E+01	2.98E-05
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.64E-03	0.00E+00	3.06E-01	0	0.00E+00	1.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-01	1.14E+01	3.79E-02	3.42E+01	1.26E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	9.04E-01	0	0.00E+00	4.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+00	1.45E+01	3.50E-01	1.31E+02	3.87E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	4.1E-03		8.6E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.9E+00		2.9E-01
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.1E-01		4.4E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00		0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	5.2E-03		1.7E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

| | | |
|---|---

Table O-49
Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.32E-09	6.19E-08	0.00E+00	0.0002538	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	1.40E-05	1.84E+01	1.40E-04	1.84E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.61E-01	6.77E+01	0.00E+00	3.2159206	7.63E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E+02	1.10E+02	7.60E+00	3.29E+02	2.53E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.24E-01	0.00E+00	0	1.04E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+01	2.08E+01	5.45E-01	4.17E+01	2.72E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	2.69E-04	3.83E-03	0.00E+00	0.4961467	7.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-01	1.45E+00	3.98E-01	2.00E+01	2.88E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	1.28E-03	5.03E-02	0.00E+00	8.5473788	6.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E+00	4.70E+01	1.97E-01	6.17E+01	1.50E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.46E-01	0.00E+00	0.00E+00	731.43495	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	4.26E-04	0.00E+00	0	2.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.60E-04	0.00E+00	0.00E+00	0.9509063	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-01	3.85E+00	2.47E-01	1.16E+01	8.24E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.91E-02	0.00E+00	0.00E+00	111.21782	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+02	9.77E+02	1.14E-01	9.77E+03	1.14E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	6.69E-04	0.00E+00	0	1.26E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.92E-03	6.40E-03	3.01E-01	6.40E-02	3.01E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	6.51E-02	0.00E+00	0	3.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-01	7.74E+01	5.73E-03	1.07E+02	4.14E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.38E-02	9.06E-04	0.00E+00	113.33843	4.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+02	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								7.63E-03	0.00E+00	0.00E+00	9.2280445	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	6.05E-03	0.00E+00	0	6.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-02	4.40E-01	1.69E-01	1.50E+00	4.95E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.59E-01	1.39E-01	0.00E+00	796.09765	7.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E+02	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	4.97E-03	0.00E+00	0	5.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-02	3.50E-01	1.74E-01	1.05E+00	5.81E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.60E-03	0.00E+00	0.00E+00	4.3524781	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00	1.14E+01	3.82E-01	3.42E+01	1.27E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	2.67E-01	0.00E+00	0	5.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E+00	1.45E+01	3.65E-01	1.31E+02	4.04E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.

Table O-50
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.63E-10	5.52E-09	0.00E+00	4.262E-06	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06	1.40E-05	3.09E-01	1.40E-04	3.09E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	6.35E-02	7.99E+00	0.00E+00	0.3092005	9.00E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E+01	1.10E+02	8.97E-01	3.29E+02	2.99E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.17E-01	0.00E+00	0	1.31E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+00	2.08E+01	6.88E-02	4.17E+01	3.43E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	3.19E-05	4.52E-04	0.00E+00	0.0414181	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-02	1.45E+00	2.94E-02	2.00E+01	2.13E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	1.42E-04	6.09E-03	0.00E+00	0.1790384	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-01	4.70E+01	4.45E-03	6.17E+01	3.39E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.38E-02	0.00E+00	0.00E+00	18.063291	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	6.02E-05	0.00E+00	0	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	6.25E-05	0.00E+00	0.00E+00	0.0317062	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-02	3.85E+00	8.25E-03	1.16E+01	2.75E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.84E-03	0.00E+00	0.00E+00	1.369889	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+00	9.77E+02	1.41E-03	9.77E+03	1.41E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	8.24E-05	0.00E+00	0	1.55E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.37E-04	6.40E-03	3.71E-02	6.40E-02	3.71E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	8.02E-03	0.00E+00	0	9.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02	7.74E+01	2.30E-04	1.07E+02	1.66E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.32E-03	9.38E-05	0.00E+00	2.4931816	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.48E-04	0.00E+00	0.00E+00	0.2889188	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	7.41E-04	0.00E+00	0	8.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-03	4.40E-01	2.07E-02	1.50E+00	6.06E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.85E-02	1.37E-02	0.00E+00	26.731493	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	6.06E-04	0.00E+00	0	6.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-03	3.50E-01	2.12E-02	1.05E+00	7.08E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.03E-04	0.00E+00	0.00E+00	0.1373744	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	1.14E+01	1.21E-02	3.42E+01	4.03E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	3.18E-02	0.00E+00	0	1.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-01	1.45E+01	1.28E-02	1.31E+02	1.42E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table

Table O-51
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	9.34E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	6.93E-10	0.00E+00	5.62E-09	1.623E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-08	1.88E-09	1.63E-05	1.40E-05	1.16E+00	1.40E-04	1.16E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.07E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	6.76E-06	4.65E-05	2.80E-03	1.66E-02	2.80E-02	1.66E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-02	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.10E-05	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-04	5.99E-05	4.14E-04	5.80E-02	7.14E-03	5.80E-01	7.14E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	6.08E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	3.66E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	3.35E-05	2.29E-04	2.80E-03	8.17E-02	2.80E-02	8.17E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.50E-03	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.04E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	5.73E-06	3.95E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.08E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	7.94E-06	5.46E-05	2.14E+00	2.55E-05	1.07E+01	5.11E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	7.38E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	3.47E-01	0.00E+00	4.44E+00	0.2056948	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E+00	2.12E-01	6.42E+00	1.10E+02	5.85E-02	3.29E+02	1.95E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.52E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-03	1.39E-03	1.09E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	6.94E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.18E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	2.65E-05	1.82E-04	4.10E-01	4.45E-04	1.23E+00	1.48E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.75E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	5.54E-06	3.82E-05	1.80E-01	2.12E-04	1.80E+00	2.12E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.66E-02	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	3.41E-05	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-03	1.99E-04	1.37E-03	1.80E-01	7.63E-03	1.80E+00	7.63E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E-02	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.02E-05	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04	1.08E-04	7.34E-04	1.80E-01	4.08E-03	1.80E+00	4.08E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	4.03E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.72E+00	8.11E-01	9.31E-01	9.31E-01	9.22E-01	9.22E-01	1.41E-04	0.00E+00	2.43E-04	0.0317342	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-03	1.23E-03	4.04E-02	1.45E+00	2.79E-02	2.00E+01	2.02E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.11E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	7.02E-07	4.83E-06	2.14E+00	2.26E-06	1.07E+01	4.52E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.09E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-01	2.01E-02	1.46E-01	1.00E+00	1.46E-01	5.00E+00	2.92E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.40E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.05E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	1.30E-06	8.94E-06	2.14E+00	4.18E-06	1.07E+01	8.36E-07
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.87E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	6.54E-01	5.86E-01	3.28E-01	3.28E-01	1.49E-01	1.49E-01	6.71E-04	0.00E+00	1.12E-02	0.5467023	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-02	9.25E-03	6.21E-01	4.70E+01	1.32E-02	6.17E+01	1.01E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.29E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.98E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	1.26E-06	8.65E-06	7.70E-02	1.12E-04	2.31E-01	3.74E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	2.29E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-06	1.53E-06	1.05E-05	1.00E-02	1.05E-03	1.00E-01	1.05E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	9.74E-03	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.86E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	3.72E-05	2.56E-04	2.14E+00	1.20E-04	1.07E+01	2.39E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.11E-04	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.27E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-06	8.04E-07	5.54E-06	9.20E-01	6.02E-06	2.76E+00	2.01E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.77E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.07E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-06	6.76E-07	4.65E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.68E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.40E-01	0.00E+00	1.01E+01	46.783605	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-01	1.15E-01	5.80E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.94E-04	0.00E+00	1.07E-01	0.0608213	NA	0.00E+00	NA	0.00E+00	0.00E+00	4.49E-02	7.84E-03	2.21E-01	3.85E+00	5.74E-02	1.16E+01	1.91E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.58E-02	0.00E+00	0.00E+00	7.1136474	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E+00	9.77E+02	7.31E+03	9.77E+03	7.31E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	7.96E-01	mg/kg	1.00E+00		7.50E-01	1.26E+00	NA	4.09E-01	4.09E-01	1.03E-01	1.03E-01	0.00E+00	0.00E+00	4.79E-04	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.55E-03	2.71E-04	2.30E-03	4.50E-01	5.12E-03	9.00E-01	2.56E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.88E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.29E-02	6.29E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	5.34E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-02	2.97E-03	2.53E-02	7.74E+01	3.27E-04	1.07E+02	2.37E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.12E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.93E-02	0.00E+00	6.72E-04	7.2492849	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	6.15E-04	7.30E+00	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.01E-03	0.00E+00	0.00E+00	0.5902387	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	7.16E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.31E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	2.73E-06	1.88E-05	6.73E+00	2.80E-06	6.73E+01	2.80E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E+00	mg/kg	1.00E+00			1.14E+00	NA	6.57E+00	6.57E+00	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.18E-03	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.14E-02	1.99E-03	1.56E-02	6.50E+01	2.39E-04	1.30E+02	1.20E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	2.63E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.15E-01	4.99E-01	5.58E-01	5.58E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	1.58E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-03	1.70E-03	1.30E-02	4.40E-01	2.95E-02	1.50E+00	8.67E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.65E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.60E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-02	1.46E-02	1.14E-01	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.75E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.46E-01	0.00E+00	1.06E-01	50.919522	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-01	9.65E-02	5.20E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.59E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.16E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	1.37E-06	9.43E-06	2.14E+00	4.41E-06	1.07E+01	8.81E-07
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.89E-03	0.00E+00	1.53E-02	0.2783906	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	4.98E-04	2.99E-01	1.14E+01	2.62E-02	3.42E+01	8.74E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	7.62E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.21E-01	7.21E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	4.59E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-01	1.14E-01	8.11E-01	1.45E+01	5.60E-02	1.31E+02	6.19E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.6E-04	3.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-01	1.1E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.2E-02	1.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.2E-03	1.4E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): [n] See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from approp

Table O-52
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Industrial Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
	----------Unitless----------															mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	7.39E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.07E-10	0.00E+00	4.45E-09	1.928E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-09	1.16E-09	1.94E-06	1.40E-05	1.39E-01	1.40E-04	1.39E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.51E-03	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.06E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-05	4.37E-06	3.03E-05	2.80E-03	1.08E-02	2.80E-02	1.08E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E-02	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	8.60E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	4.46E-05	3.08E-04	5.80E-02	5.32E-03	5.80E-01	5.32E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	4.99E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.00E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	1.47E-05	1.02E-04	2.80E-03	3.63E-02	2.80E-02	3.63E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.38E-03	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.31E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	4.01E-06	2.78E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.28E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.73E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	3.73E-06	2.58E-05	2.14E+00	1.21E-05	1.07E+01	2.41E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	7.05E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.36E-01	0.00E+00	4.24E+00	0.1398725	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-01	1.55E-01	5.66E+00	1.10E+02	5.16E-02	3.29E+02	1.72E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.43E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-03	8.74E-04	7.31E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	5.90E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.55E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	1.71E-05	1.19E-04	4.10E-01	2.89E-04	1.23E+00	9.65E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.27E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.67E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-05	3.70E-06	2.56E-05	1.80E-01	1.42E-04	1.80E+00	1.42E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.34E-02	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	2.61E-05	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	7.14E-05	5.07E-04	1.80E-01	2.82E-03	1.80E+00	2.82E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.47E-02	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	8.87E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-04	8.15E-05	5.57E-04	1.80E-01	3.10E-03	1.80E+00	3.10E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.79E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.83E+00	8.80E-01	9.58E-01	9.58E-01	6.72E-01	6.72E-01	1.19E-04	0.00E+00	2.28E-04	0.0187362	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-03	8.44E-04	2.48E-02	1.45E+00	1.71E-02	2.00E+01	1.24E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.60E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.60E-08	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-06	4.63E-07	3.21E-06	2.14E+00	1.50E-06	1.07E+01	3.00E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.04E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-02	4.85E-03	4.31E-02	1.00E+00	4.31E-02	5.00E+00	8.61E-03
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.76E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.66E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06	8.01E-07	5.56E-06	2.14E+00	2.60E-06	1.07E+01	5.19E-07
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.76E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	6.85E-01	6.44E-01	3.40E-01	3.40E-01	8.97E-02	8.97E-02	5.29E-04	0.00E+00	1.06E-02	0.0809913	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-02	5.22E-03	1.27E-01	4.70E+01	2.71E-03	6.17E+01	2.06E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.78E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.67E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-06	8.08E-07	5.60E-06	7.70E-02	7.27E-05	2.31E-01	2.42E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.31E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.00E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	1.33E-06	9.17E-06	1.00E-02	9.17E-04	1.00E-01	9.17E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-03	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.25E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	1.57E-05	1.09E-04	2.14E+00	5.08E-05	1.07E+01	1.02E-05
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.12E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-06	5.40E-07	3.74E-06	9.20E-01	4.07E-06	2.76E+00	1.36E-06
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.27E-08	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06	4.47E-07	3.10E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.59E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.37E-01	0.00E+00	9.55E+00	8.171259	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-01	9.24E-02	1.86E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.32E-04	0.00E+00	7.96E-02	0.0143429	NA	0.00E+00	NA	0.00E+00	0.00E+00	2.92E-02	5.10E-03	1.28E-01	3.85E+00	3.34E-02	1.16E+01	1.11E-02
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.80E-02	0.00E+00	0.00E+00	0.6196943	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-01	9.77E+02	6.53E-04	9.77E+03	6.53E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	4.57E-01	mg/kg	1.00E+00		7.50E-01	1.83E+00	NA	5.28E-01	5.28E-01	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.75E-04	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	4.44E-03	7.76E-04	6.49E-03	6.50E+01	9.99E-05	1.30E+02	5.00E-05
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	8.33E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.39E-02	6.39E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	5.01E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-02	2.40E-03	2.12E-02	7.74E+01	2.74E-04	1.07E+02	1.98E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	9.11E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.72E-02	0.00E+00	5.49E-04	1.1278361	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-03	3.34E-04	1.16E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								3.15E-03	0.00E+00	0.00E+00	0.1306977	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06	1.48E-06	1.02E-05	6.73E+00	1.52E-06	6.73E+01	1.52E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+00	mg/kg	1.00E+00			3.00E-01	NA	8.18E+00	8.18E+00	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.27E-03	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	4.44E-03	7.76E-04	6.49E-03	6.50E+01	9.99E-05	1.30E+02	5.00E-05
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	1.98E+00	mg/kg	1.00E+00	2.05E+02	4.50E+00	7.72E-01	4.92E-01	5.42E-01	5.42E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	1.19E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-03	9.90E-04	7.85E-03	4.40E-01	1.78E-02	1.50E+00	5.23E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.46E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.48E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-02	9.03E-03	7.55E-02	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.16E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.92E-01	0.00E+00	7.01E-02	12.092478	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-01	4.27E-02	1.27E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.82E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.70E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	8.17E-07	5.67E-06	2.14E+00	2.65E-06	1.07E+01	5.30E-07
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.38E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.50E-03	0.00E+00	1.43E-02	0.0621438	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-03	4.33E-04	8.09E-02	1.14E+01	7.10E-03	3.42E+01	2.37E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	7.04E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	7.47E-01	7.47E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	4.24E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-01	4.29E-02	3.31E-01	1.45E+01	2.28E-02	1.31E+02	2.53E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	7.4E-05	1.5E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.2E-02	5.2E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.3E-03	7.0E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	9.9E-04	1.2E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.

Table O-53
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF
							-----	-----	-----	-----	Unitless	-----	-----		
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01		
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA		
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03							
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01		
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00						
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01

Chemical	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	2.58E-09	0.00E+00	7.32E-09	0.00E+00	0.00E+00	4.07E-06	0.00E+00	8.32E-10	0.00E+00	0.00E+00	0.00E+00	4.08E-06	1.00E-06	4.08E+00	1.00E-05	4.08E-01
2,4,6-Trinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	1.01E-03	0.00E+00	5.20E-06	0.00E+00	0.00E+00	0.00E+00	1.02E-03	8.00E-01	1.27E-03	4.00E+00	2.54E-04
4,4'-DDE	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	3.11E-03	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	3.24E-03	8.00E-01	4.05E-03	4.00E+00	8.11E-04
4,4'-DDT	0.00E+00	0.00E+00	4.13E-06	0.00E+00	0.00E+00	1.66E-03	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	1.68E-03	8.00E-01	2.09E-03	4.00E+00	4.19E-04
Aldrin	0.00E+00	0.00E+00	3.47E-07	0.00E+00	0.00E+00	1.39E-04	0.00E+00	5.88E-08	0.00E+00	0.00E+00	0.00E+00	1.40E-04	2.00E-01	6.99E-04	1.00E+00	1.40E-04
alpha-Chlordane	0.00E+00	0.00E+00	6.98E-07	0.00E+00	0.00E+00	2.75E-04	0.00E+00	7.03E-07	0.00E+00	0.00E+00	0.00E+00	2.76E-04	4.58E+00	6.03E-05	9.16E+00	3.02E-05
Aluminum	6.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-01	1.93E+00	3.26E-01	1.93E+01	3.26E-02
Antimony	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	3.37E-02	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	3.69E-02	1.25E-01	2.95E-01	1.25E+00	2.95E-02
Aroclor 1242	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	2.25E-03	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-03	6.85E-02	3.33E-02	6.85E-01	3.33E-03
Aroclor 1248	0.00E+00	0.00E+00	2.63E-06	0.00E+00	0.00E+00	1.04E-03	0.00E+00	6.65E-07	0.00E+00	0.00E+00	0.00E+00	1.04E-03	6.80E-02	1.53E-02	6.80E-01	1.53E-03
Aroclor 1254	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	3.09E-03	0.00E+00	1.68E-06	0.00E+00	0.00E+00	0.00E+00	3.10E-03	6.80E-02	4.56E-02	6.80E-01	4.56E-03
Aroclor 1260	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	5.91E-03	0.00E+00	1.57E-06	0.00E+00	0.00E+00	0.00E+00	5.92E-03	6.80E-02	8.71E-02	6.80E-01	8.71E-03
Aroclor 1268	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	5.52E-04	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	5.74E-04	6.80E-02	8.44E-03	6.80E-01	8.44E-04
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	4.18E-02	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	5.21E-02	4.00E+00	1.30E-02	4.00E+01	1.30E-03
bis(2-ethylhexyl)phthalate	7.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-03	1.83E+01	3.97E-04	1.83E+02	3.98E-05
Butylbenzyl phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	5.00E-02	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	6.76E-02	1.00E+00	6.76E-02	1.00E+01	6.76E-03
Chlordane	0.00E+00	0.00E+00	3.48E-07	0.00E+00	0.00E+00	1.37E-04	0.00E+00	3.51E-07	0.00E+00	0.00E+00	0.00E+00	1.38E-04	4.58E+00	3.01E-05	9.16E+00	1.50E-05
Chromium (trivalent)	0.00E+00	0.00E+00	2.24E-02	0.00E+00	0.00E+00	1.06E-02	0.00E+00	2.69E-01	0.00E+00	0.00E+00	0.00E+00	3.02E-01	2.74E+03	1.10E-04	2.74E+04	1.10E-05
Chromium (hexavalent)	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	1.51E-04	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	4.28E-03	3.28E+00	1.31E-03	1.31E+01	3.26E-04
cis-Nonachlor	0.00E+00	0.00E+00	4.59E-07	0.00E+00	0.00E+00	1.81E-04	0.00E+00	4.63E-07	0.00E+00	0.00E+00	0.00E+00	1.82E-04	4.58E+00	3.97E-05	9.16E+00	1.99E-05
Copper	4.25E-03	0.00E+00	1.38E-02	0.00E+00	0.00E+00	4.54E-01	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	6.70E-01	1.17E+01	5.73E-02	1.51E+01	4.43E-02
Dieldrin	0.00E+00	0.00E+00	3.44E-07	0.00E+00	0.00E+00	1.31E-04	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	1.46E-04	2.00E-02	7.29E-03	2.00E-01	7.29E-04
Endrin	0.00E+00	0.00E+00	5.11E-07	0.00E+00	0.00E+00	1.95E-04	0.00E+00	4.88E-07	0.00E+00	0.00E+00	0.00E+00	1.96E-04	9.20E-02	2.13E-03	9.20E-01	2.13E-04
gamma-Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	0.00E+00	4.09E-07	0.00E+00	0.00E+00	1.59E-04	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	1.59E-04	8.00E-02	1.99E-03	2.90E-01	5.49E-04
HMX	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	9.43E-01	0.00E+00	1.86E+01	0.00E+00	0.00E+00	3.63E+01	0.00E+00	1.86E+00	0.00E+00	0.00E+00	0.00E+00	5.77E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	2.33E-03	0.00E+00	3.30E-01	0.00E+00	0.00E+00	1.53E-01	0.00E+00	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.09E-01	8.00E+00	8.86E-02	8.00E+01	8.86E-03
Manganese	8.19E-02	0.00E+00	1.73E+00	0.00E+00	0.00E+00	9.58E+00	0.00E+00	4.34E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+01	8.80E+01	1.79E-01	2.84E+02	5.54E-02
Mercury (inorganic)	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.98E-02	NA	3.72E-03	0.00E+00	0.00E+00	0.00E+00	2.36E-02	1.32E+01	1.79E-03	3.96E+01	5.96E-04
Mercury (methyl)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	0.00E+00	6.33E-07	0.00E+00	0.00E+00	2.57E-04	0.00E+00	5.44E-07	0.00E+00	0.00E+00	0.00E+00	2.58E-04	7.00E-02	3.69E-03	7.00E-01	3.69E-04
Nickel	0.00E+00	0.00E+00	1.32E-02	0.00E+00	0.00E+00	1.56E+00	NA	2.19E-02	0.00E+00	0.00E+00	0.00E+00	1.59E+00	4.00E+01	3.98E-02	8.00E+01	1.99E-02
Nitrate	2.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-01	5.07E+02	5.24E-04	1.13E+03	2.35E-04
Nitrate/Nitrite	2.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-02	5.07E+02	4.80E-05	1.13E+03	2.16E-05
Oxychlordane	0.00E+00	0.00E+00	3.26E-07	0.00E+00	0.00E+00	1.25E-04	0.00E+00	2.15E-07	0.00E+00	0.00E+00	0.00E+00	1.25E-04	4.58E+00	2.73E-05	9.16E+00	1.37E-05
p-Isopropyltoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	0.00E+00	1.64E-06	0.00E+00	0.00E+00	6.22E-04	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	6.25E-04	2.40E-01	2.60E-03	2.40E+00	2.60E-04
Pentachlorophenol	0.00E+00	0.00E+00	7.84E-04	0.00E+00	0.00E+00	2.91E-01	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	2.93E-01	2.40E-01	1.22E+00	2.40E+00	1.22E-01
Perchlorate	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	1.48E-02	NA	2.44E-01	0.00E+00	0.00E+00	0.00E+00	2.59E-01	8.50E+00	3.05E-02	2.55E+01	1.02E-02
Selenium	1.12E-03	0.00E+00	7.65E-04	0.00E+00	0.00E+00	2.25E-02	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	3.33E-02	2.00E-01	1.66E-01	3.30E-01	1.01E-01
Silver	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	1.84E-01	0.00E+00	2.32E-01	0.00E+00	0.00E+00	0.00E+00	4.42E-01	2.63E+02	1.68E-03	7.89E+02	5.60E-04
Sulfate	4.27E+00	0.00E+00	4.27E-01	0.00E+00	0.00E+00	1.22E+01	0.00E+00	3.73E+00	0.00E+00	0.00E+00	0.00E+00	2.06E+01	NA	NA	NA	NA
Thallium	5.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	7.40E-03	6.89E-02	7.40E-02	6.89E-03
trans-Nonachlor	0.00E+00	0.00E+00	5.63E-07	0.00E+00	0.00E+00	2.22E-04	0.00E+00	5.67E-07	0.00E+00	0.00E+00	0.00E+00	2.23E-04	4.58E+00	4.87E-05	9.16E+00	2.43E-05
Vanadium	0.00E+00	0.00E+00	2.84E-02	0.00E+00	0.00E+00	6.26E-02	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	9.39E-02	2.10E-01	4.47E-01	2.10E+00	4.47E-02
Zinc	2.63E-02	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.31E+00	0.00E+00	2.21E+00	0.00E+00	0.00E+00	0.00E+00	3.65E+00	1.60E+02	2.28E-02	3.20E+02	1.14E-02

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	2.1E-04	1.0E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.4E-03	1.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-01	1.9E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.0E-04	4.0E-05
Aldrin/Dieldrin/Endrin EEQ:	1.0E-02	1.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi\,x\,Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): [n] See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0.5	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	0.5	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0.0000408	kg/d
Sediment ingestion rate =	0	kg/d
Food ingestion rate =	0.00204	kg/d
Body weight =	0.022	kg
Home range =	0.0345946	acres
Water intake rate =	0.0066	L/d
Site Area =	3217	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-54
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.10E-09	0.00E+00	5.90E-09	0.00E+00	0.00E+00	1.62E-06	0.00E+00	5.72E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-06	1.00E-06	1.63E+00	1.00E-05	1.63E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	3.32E-04	0.00E+00	1.04E-06	0.00E+00	0.00E+00	0.00E+00	3.35E-04	8.00E-01	4.18E-04	4.00E+00	8.37E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	1.29E-03	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-03	8.00E-01	1.65E-03	4.00E+00	3.30E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.98E-06	0.00E+00	0.00E+00	4.59E-04	0.00E+00	1.39E-06	0.00E+00	0.00E+00	0.00E+00	4.63E-04	8.00E-01	5.79E-04	4.00E+00	1.16E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.27E-07	0.00E+00	0.00E+00	7.56E-05	0.00E+00	3.97E-08	0.00E+00	0.00E+00	0.00E+00	7.60E-05	2.00E-01	3.80E-04	1.00E+00	7.60E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.84E-07	0.00E+00	0.00E+00	1.33E-04	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	1.34E-04	4.58E+00	2.92E-05	9.16E+00	1.46E-05
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	5.19E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-01	1.93E+00	2.69E-01	1.93E+01	2.69E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	7.08E-03	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	8.90E-03	1.25E-01	7.12E-02	1.25E+00	7.12E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	1.08E-03	0.00E+00	9.92E-07	0.00E+00	0.00E+00	0.00E+00	1.08E-03	6.85E-02	1.58E-02	6.85E-01	1.58E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-06	0.00E+00	0.00E+00	5.11E-04	0.00E+00	4.70E-07	0.00E+00	0.00E+00	0.00E+00	5.13E-04	6.80E-02	7.55E-03	6.80E-01	7.55E-04
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	1.44E-03	0.00E+00	5.50E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-03	6.80E-02	2.12E-02	6.80E-01	2.12E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	1.86E-03	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.86E-03	6.80E-02	2.74E-02	6.80E-01	2.74E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	2.97E-04	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	3.17E-04	6.80E-02	4.67E-03	6.80E-01	4.67E-04
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	1.81E-02	0.00E+00	7.60E-03	0.00E+00	0.00E+00	0.00E+00	2.58E-02	4.00E+00	6.45E-03	4.00E+01	6.45E-04
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03	1.83E+01	2.34E-04	1.83E+02	2.34E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	4.59E-02	0.00E+00	1.49E-02	0.00E+00	0.00E+00	0.00E+00	6.13E-02	1.00E+00	6.13E-02	1.00E+01	6.13E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.21E-07	0.00E+00	0.00E+00	7.29E-05	0.00E+00	7.48E-08	0.00E+00	0.00E+00	0.00E+00	7.33E-05	4.58E+00	1.60E-05	9.16E+00	8.00E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.02E-02	0.00E+00	0.00E+00	9.57E-03	0.00E+00	2.07E-02	0.00E+00	0.00E+00	0.00E+00	5.04E-02	2.74E+03	1.84E-05	2.74E+04	1.84E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	1.36E-04	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	7.15E-04	3.28E+00	2.18E-04	1.31E+01	5.45E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.93E-07	0.00E+00	0.00E+00	8.93E-05	0.00E+00	9.17E-08	0.00E+00	0.00E+00	0.00E+00	8.98E-05	4.58E+00	1.96E-05	9.16E+00	9.81E-06
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	3.68E-03	0.00E+00	1.21E-02	0.00E+00	0.00E+00	4.40E-01	0.00E+00	1.88E-01	0.00E+00	0.00E+00	0.00E+00	6.44E-01	1.17E+01	5.51E-02	1.51E+01	4.25E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.19E-07	0.00E+00	0.00E+00	7.02E-05	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	7.07E-05	2.00E-02	3.53E-03	2.00E-01	3.53E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.41E-07	0.00E+00	0.00E+00	9.71E-05	0.00E+00	3.02E-07	0.00E+00	0.00E+00	0.00E+00	9.78E-05	9.20E-02	1.06E-03	9.20E-01	1.06E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.58E-07	0.00E+00	0.00E+00	8.01E-05	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	8.06E-05	8.00E-02	1.01E-03	2.90E-01	2.78E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.05E-01	0.00E+00	1.69E+01	0.00E+00	0.00E+00	1.52E+01	0.00E+00	1.69E+00	0.00E+00	0.00E+00	0.00E+00	3.46E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.88E-03	0.00E+00	2.45E-01	0.00E+00	0.00E+00	1.13E-01	0.00E+00	1.89E-01	0.00E+00	0.00E+00	0.00E+00	5.49E-01	8.00E+00	6.87E-02	8.00E+01	6.87E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.36E-02	0.00E+00	1.54E+00	0.00E+00	0.00E+00	8.70E+00	0.00E+00	3.04E+00	0.00E+00	0.00E+00	0.00E+00	1.33E+01	8.80E+01	1.52E-01	2.84E+02	4.70E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	1.91E-02	NA	3.53E-03	0.00E+00	0.00E+00	0.00E+00	2.28E-02	1.32E+01	1.72E-03	3.96E+01	5.75E-04
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.35E-07	0.00E+00	0.00E+00	1.25E-04	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	1.26E-04	7.00E-02	1.80E-03	7.00E-01	1.80E-04
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	3.12E-01	NA	2.02E-02	0.00E+00	0.00E+00	0.00E+00	3.44E-01	4.00E+01	8.60E-03	8.00E+01	4.30E-03
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-01	5.07E+02	2.78E-04	1.13E+03	1.25E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-02	5.07E+02	3.66E-05	1.13E+03	1.64E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.16E-07	0.00E+00	0.00E+00	6.97E-05	0.00E+00	2.08E-07	0.00E+00	0.00E+00	0.00E+00	7.02E-05	4.58E+00	1.53E-05	9.16E+00	7.67E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	2.28E-04	0.00E+00	7.14E-07	0.00E+00	0.00E+00	0.00E+00	2.30E-04	2.40E-01	9.57E-04	2.40E+00	9.57E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	9.83E-02	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	9.92E-02	2.40E-01	4.13E-01	2.40E+00	4.13E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	1.07E-03	NA	1.14E-01	0.00E+00	0.00E+00	0.00E+00	1.15E-01	8.50E+00	1.36E-02	2.55E+01	4.52E-03
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	9.68E-04	0.00E+00	6.93E-04	0.00E+00	0.00E+00	2.10E-02	0.00E+00	7.95E-03	0.00E+00	0.00E+00	0.00E+00	3.06E-02	2.00E-01	1.53E-01	3.30E-01	9.26E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.41E-02	0.00E+00	0.00E+00	5.24E-02	0.00E+00	1.26E-01	0.00E+00	0.00E+00	0.00E+00	2.03E-01	2.63E+02	7.72E-04	7.89E+02	2.57E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.30E+00	0.00E+00	2.41E-01	0.00E+00	0.00E+00	1.81E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00	6.62E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	7.40E-03	4.06E-02	7.40E-02	4.06E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.69E-07	0.00E+00	0.00E+00	1.06E-04	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-04	4.58E+00	2.34E-05	9.16E+00	1.17E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	2.68E-02	0.00E+00	0.00E+00	2.82E-02	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	5.74E-02	2.10E-01	2.73E-01	2.10E+00	2.73E-02
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	1.95E-02	0.00E+00	8.89E-02	0.00E+00	0.00E+00	1.07E+00	0.00E+00	1.97E+00	0.00E+00	0.00E+00	0.00E+00	3.14E+00	1.60E+02	1.96E-02	3.20E+02	9.82E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-04	5.2E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.6E-03	5.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.7E-02	7.7E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:

Table O-55
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.07E-10	3.68E-09	9.31E-09	3.66E-06	2.57E-07	6.60E-07	0.00E+00	5.40E-10	0.00E+00	6.03E-10	0.00E+00	4.59E-06	1.00E-06	4.59E+00	1.00E-05	4.59E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	7.01E-06	3.30E-06	0.00E+00	9.40E-06	1.64E-04	0.00E+00	3.37E-06	0.00E+00	4.05E-06	0.00E+00	1.91E-04	8.00E-01	2.39E-04	4.00E+00	4.77E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	5.05E-04	0.00E+00	8.03E-05	0.00E+00	1.07E-05	0.00E+00	6.06E-04	8.00E-01	7.58E-04	4.00E+00	1.52E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	7.17E-06	5.26E-06	0.00E+00	3.85E-05	2.70E-04	0.00E+00	5.37E-06	0.00E+00	9.30E-06	0.00E+00	3.36E-04	8.00E-01	4.19E-04	4.00E+00	8.39E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	3.82E-08	0.00E+00	5.41E-07	0.00E+00	2.36E-05	2.00E-01	1.18E-04	1.00E+00	2.36E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.87E-07	0.00E+00	0.00E+00	4.46E-05	0.00E+00	4.57E-07	0.00E+00	1.09E-06	0.00E+00	4.71E-05	4.58E+00	1.03E-05	9.16E+00	5.14E-06
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.73E-01	2.43E+01	0.00E+00	2.26E-02	3.49E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E+02	1.93E+00	1.93E+02	1.93E+01	1.93E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	5.46E-03	0.00E+00	1.34E-03	0.00E+00	2.66E-04	0.00E+00	8.57E-03	1.25E-01	6.86E-02	1.25E+00	6.86E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	3.65E-04	0.00E+00	1.51E-05	0.00E+00	8.87E-06	0.00E+00	3.96E-04	6.85E-02	5.79E-03	6.85E-01	5.79E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.35E-06	0.00E+00	0.00E+00	1.69E-04	0.00E+00	4.32E-07	0.00E+00	4.10E-06	0.00E+00	1.77E-04	6.80E-02	2.60E-03	6.90E-01	2.56E-04
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	1.20E-04	9.69E-06	0.00E+00	8.40E-03	5.01E-04	0.00E+00	1.09E-06	0.00E+00	1.09E-05	0.00E+00	9.05E-03	6.80E-02	1.33E-01	6.90E-01	1.31E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	9.59E-04	0.00E+00	1.02E-06	0.00E+00	3.60E-05	0.00E+00	1.01E-03	6.80E-02	1.49E-02	6.90E-01	1.47E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.01E-06	0.00E+00	0.00E+00	8.96E-05	0.00E+00	1.35E-05	0.00E+00	2.46E-06	0.00E+00	1.08E-04	6.80E-02	1.58E-03	6.90E-01	1.56E-04
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.15E-01	0.00E+00	0.00E+00	4.53E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E+00	5.10E+00	9.50E-01	1.98E+01	2.45E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	6.79E-03	0.00E+00	6.58E-03	0.00E+00	1.97E-04	0.00E+00	1.37E-02	4.00E+00	3.43E-03	4.00E+01	3.43E-04
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.00E-03	0.00E+00	0.00E+00	9.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-02	1.83E+01	5.26E-03	1.83E+02	5.27E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	1.24E-03	9.05E-04	0.00E+00	3.15E-02	8.11E-03	0.00E+00	1.10E-02	0.00E+00	8.88E-04	0.00E+00	5.37E-02	1.00E+00	5.37E-02	1.00E+01	5.37E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.42E-07	0.00E+00	0.00E+00	2.22E-05	0.00E+00	2.28E-07	0.00E+00	5.42E-07	0.00E+00	2.35E-05	4.58E+00	5.12E-06	9.16E+00	2.56E-06
Chromium (trivalent)	0.00E+00	mg/L	1.21E+01	mg/kg	1.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.85E-02	0.00E+00	0.00E+00	1.73E-03	0.00E+00	1.74E-01	0.00E+00	1.01E-02	0.00E+00	2.15E-01	2.74E+03	7.85E-05	2.74E+04	7.85E-06
Chromium (hexavalent)	0.00E+00	mg/L	1.71E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	2.45E-05	0.00E+00	2.48E-03	0.00E+00	1.43E-04	0.00E+00	3.05E-03	3.28E+00	9.30E-04	1.31E+01	2.32E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.84E-07	0.00E+00	0.00E+00	2.94E-05	0.00E+00	3.01E-07	0.00E+00	7.16E-07	0.00E+00	3.10E-05	4.58E+00	6.76E-06	9.16E+00	3.38E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.17E-03	2.99E-02	1.75E-02	2.10E-01	5.00E-01	7.37E-02	0.00E+00	1.29E-01	0.00E+00	2.79E-03	0.00E+00	9.64E-01	1.17E+01	8.24E-02	1.51E+01	6.37E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	7.07E-06	4.38E-07	0.00E+00	1.31E-04	2.13E-05	0.00E+00	9.16E-06	0.00E+00	5.37E-07	0.00E+00	1.69E-04	2.00E-02	8.47E-03	2.00E-01	8.47E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	6.49E-07	0.00E+00	0.00E+00	3.16E-05	0.00E+00	3.17E-07	0.00E+00	8.40E-07	0.00E+00	3.34E-05	9.20E-02	3.64E-04	9.20E-01	3.64E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.20E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	1.25E-07	0.00E+00	6.37E-07	0.00E+00	2.70E-05	8.00E-02	3.38E-04	2.90E-01	9.32E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.59E-01	0.00E+00	2.37E+01	7.88E+00	0.00E+00	5.89E+00	0.00E+00	1.21E+00	0.00E+00	5.21E-02	0.00E+00	3.90E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	6.39E-04	1.81E-01	4.20E-01	2.92E-02	1.43E-01	2.48E-02	0.00E+00	1.45E-01	0.00E+00	5.94E-03	0.00E+00	9.49E-01	8.00E+00	1.19E-01	8.00E+01	1.19E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.25E-02	0.00E+00	2.21E+00	1.37E+00	0.00E+00	1.56E+00	0.00E+00	2.82E+00	0.00E+00	2.25E-02	0.00E+00	7.99E+00	8.80E+01	9.08E-02	2.84E+02	2.81E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	3.21E-03	NA	2.41E-03	0.00E+00	1.54E-05	0.00E+00	5.78E-03	1.00E+00	5.78E-03	3.00E+00	1.93E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	6.24E-04	0.00E+00	0.00E+00	1.49E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.12E-03	1.50E-02	1.41E-01	2.50E-02	8.47E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.05E-07	0.00E+00	0.00E+00	4.17E-05	0.00E+00	3.53E-07	0.00E+00	9.87E-07	0.00E+00	4.38E-05	7.00E-02	6.26E-04	7.00E-01	6.26E-05
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.68E-02	0.00E+00	0.00E+00	2.53E-01	NA	1.42E-02	0.00E+00	1.80E-03	0.00E+00	2.86E-01	4.00E+01	7.14E-03	8.00E+01	3.57E-03
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.30E-02	0.00E+00	0.00E+00	2.37E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E+00	5.07E+02	4.83E-03	1.13E+03	2.17E-03
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.69E-03	0.00E+00	0.00E+00	2.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-01	5.07E+02	4.42E-04	1.13E+03	1.98E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.15E-07	0.00E+00	0.00E+00	2.02E-05	0.00E+00	1.39E-07	0.00E+00	5.08E-07	0.00E+00	2.13E-05	4.58E+00	4.65E-06	9.16E+00	2.32E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.08E-06	0.00E+00	0.00E+00	1.01E-04	0.00E+00	8.90E-07	0.00E+00	2.55E-06	0.00E+00	1.06E-04	2.40E-01	4.43E-04	2.40E+00	4.43E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	0.00E+00	4.72E-02	0.00E+00	8.97E-04	0.00E+00	1.22E-03	0.00E+00	5.04E-02	2.40E-01	2.10E-01	2.40E+00	2.10E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	2.40E-03	NA	1.58E-01	0.00E+00	1.17E-04	0.00E+00	1.62E-01	8.50E+00	1.90E-02	2.55E+01	6.33E-03
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	3.08E-04	3.04E-03	9.73E-04	1.92E-03	4.37E-02	3.66E-03	0.00E+00	5.76E-03	0.00E+00	2.02E-04	0.00E+00	5.96E-02	2.00E-01	2.98E-01	3.30E-01	1.80E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	6.27E-03	0.00E+00	0.00E+00	9.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-02	1.90E+01	5.07E-03	5.70E+01	1.69E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.37E-02	0.00E+00	0.00E+00	2.99E-02	0.00E+00	1.50E-01	0.00E+00	5.95E-03	0.00E+00	2.20E-01	2.63E+02	8.36E-04	7.89E+02	2.79E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.17E+00	1.43E-02	5.42E-01	3.82E+01	9.56E-02	1.97E+00	0.00E+00	2.42E+00	0.00E+00	9.59E-02	0.00E+00	4.45E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.40E-04	1.66E-03	0.00E+00	6.78E-02	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-02	7.40E-03	1.26E+01	7.40E-02	1.26E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.16E-07	0.00E+00	0.00E+00	3.60E-05	0.00E+00	3.68E-07	0.00E+00	8.77E-07	0.00E+00	3.80E-05	4.58E+00	8.29E-06	9.16E+00	4.14E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	3.62E-02	0.00E+00	0.00E+00	1.02E-02	0.00E+00	1.85E-03	0.00E+00	2.28E-04	0.00E+00	4.84E-02	2.10E-01	2.30E-01	2.10E+00	2.30E-02
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	7.23E-03	2.22E-01	1.39E-01	1.10E+00	5.33E+00	2.13E-01	0.00E+00	1.43E+00	0.00E+00	6.66E-02	0.00E+00	8.51E+00	1.60E+02	5.32E-02	3.20E+02	2.66E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	3.5E-05	1.8E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.4E-03	2.8E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.6E-01	1.6E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	5.3E-03	5.3E-04
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Table O-56
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	5.76E-10	2.99E-09	7.51E-09	4.05E-07	4.46E-08	2.64E-07	0.00E+00	3.71E-10	0.00E+00	3.77E-10	0.00E+00	7.26E-07	1.00E-06	7.26E-01	1.00E-05	7.26E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	6.03E-06	1.89E-06	0.00E+00	8.09E-06	5.39E-05	0.00E+00	6.75E-07	0.00E+00	1.76E-06	0.00E+00	7.24E-05	8.00E-01	9.04E-05	4.00E+00	1.81E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	1.27E-05	0.00E+00	7.33E-06	0.00E+00	2.37E-04	8.00E-01	2.97E-04	4.00E+00	5.93E-05
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	6.16E-06	2.52E-06	0.00E+00	3.30E-05	7.46E-05	0.00E+00	9.00E-07	0.00E+00	2.38E-06	0.00E+00	1.20E-04	8.00E-01	1.49E-04	4.00E+00	2.99E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.15E-07	0.00E+00	0.00E+00	1.23E-05	0.00E+00	2.58E-08	0.00E+00	3.87E-07	0.00E+00	1.31E-05	2.00E-01	6.55E-05	1.00E+00	1.31E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.43E-07	0.00E+00	0.00E+00	2.16E-05	0.00E+00	8.85E-08	0.00E+00	6.93E-07	0.00E+00	2.31E-05	4.58E+00	5.04E-06	9.16E+00	2.52E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.42E-01	2.12E+01	0.00E+00	1.87E-02	3.04E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E+02	1.93E+00	1.69E+02	1.93E+01	1.69E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	1.15E-03	0.00E+00	5.67E-04	0.00E+00	1.42E-04	0.00E+00	3.06E-03	1.25E-01	2.45E-02	1.25E+00	2.45E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	1.75E-04	0.00E+00	6.44E-07	0.00E+00	5.61E-06	0.00E+00	1.87E-04	6.85E-02	2.73E-03	6.85E-01	2.73E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	8.29E-05	0.00E+00	3.05E-07	0.00E+00	2.66E-06	0.00E+00	8.87E-05	6.80E-02	1.30E-03	6.90E-01	1.29E-04
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	9.90E-05	7.82E-06	0.00E+00	1.48E-03	2.33E-04	0.00E+00	3.57E-07	0.00E+00	4.14E-06	0.00E+00	1.82E-03	6.80E-02	2.68E-02	6.90E-01	2.64E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	3.01E-04	0.00E+00	7.88E-08	0.00E+00	1.71E-05	0.00E+00	3.28E-04	6.80E-02	4.82E-03	6.90E-01	4.75E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	4.81E-05	0.00E+00	1.26E-05	0.00E+00	1.74E-06	0.00E+00	6.43E-05	6.80E-02	9.46E-04	6.90E-01	9.32E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0.00E+00	4.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E+00	5.10E+00	8.39E-01	1.98E+01	2.16E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	2.94E-03	0.00E+00	4.94E-03	0.00E+00	1.12E-04	0.00E+00	8.10E-03	4.00E+00	2.03E-03	4.00E+01	2.03E-04
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.18E-03	0.00E+00	0.00E+00	2.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02	1.83E+01	1.46E-03	1.83E+02	1.46E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	1.14E-03	7.13E-04	0.00E+00	2.19E-03	7.45E-03	0.00E+00	9.65E-03	0.00E+00	5.10E-04	0.00E+00	2.16E-02	1.00E+00	2.16E-02	1.00E+01	2.16E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.08E-07	0.00E+00	0.00E+00	1.18E-05	0.00E+00	4.86E-08	0.00E+00	3.80E-07	0.00E+00	1.27E-05	4.58E+00	2.77E-06	9.16E+00	1.38E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.56E-02	0.00E+00	0.00E+00	1.55E-03	0.00E+00	1.34E-02	0.00E+00	2.31E-03	0.00E+00	4.29E-02	2.74E+03	1.57E-05	2.74E+04	1.57E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	2.21E-05	0.00E+00	1.90E-04	0.00E+00	3.28E-05	0.00E+00	6.09E-04	3.28E+00	1.86E-04	1.31E+01	4.64E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.00E-07	0.00E+00	0.00E+00	1.45E-05	0.00E+00	5.95E-08	0.00E+00	4.66E-07	0.00E+00	1.55E-05	4.58E+00	3.39E-06	9.16E+00	1.70E-06
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.01E-03	2.55E-02	1.54E-02	3.42E-02	1.27E-01	7.14E-02	0.00E+00	1.22E-01	0.00E+00	1.47E-03	0.00E+00	3.98E-01	1.17E+01	3.41E-02	1.51E+01	2.63E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	6.06E-06	4.05E-07	0.00E+00	1.12E-04	1.14E-05	0.00E+00	1.24E-07	0.00E+00	3.78E-07	0.00E+00	1.31E-04	2.00E-02	6.53E-03	2.00E-01	6.53E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.61E-07	0.00E+00	0.00E+00	1.58E-05	0.00E+00	1.96E-07	0.00E+00	7.24E-07	0.00E+00	1.72E-05	9.20E-02	1.87E-04	9.20E-01	1.87E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.55E-07	0.00E+00	0.00E+00	1.30E-05	0.00E+00	9.23E-08	0.00E+00	4.24E-07	0.00E+00	1.40E-05	8.00E-02	1.75E-04	2.90E-01	4.82E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.21E-01	0.00E+00	2.15E+01	1.68E+00	0.00E+00	2.47E+00	0.00E+00	1.10E+00	0.00E+00	4.01E-02	0.00E+00	2.70E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.15E-04	1.41E-01	3.12E-01	7.03E-03	1.01E-01	1.84E-02	0.00E+00	1.23E-01	0.00E+00	3.86E-03	0.00E+00	7.07E-01	8.00E+00	8.83E-02	8.00E+01	8.83E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.75E-02	0.00E+00	1.96E+00	1.33E-01	0.00E+00	1.41E+00	0.00E+00	1.97E+00	0.00E+00	1.58E-02	0.00E+00	5.51E+00	8.80E+01	6.26E-02	2.84E+02	1.94E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	3.11E-03	NA	2.29E-03	0.00E+00	1.24E-05	0.00E+00	5.54E-03	1.00E+00	5.54E-03	3.00E+00	1.85E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	4.92E-04	0.00E+00	0.00E+00	1.18E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.67E-03	1.50E-02	1.11E-01	2.50E-02	6.68E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.80E-07	0.00E+00	0.00E+00	2.03E-05	0.00E+00	2.99E-08	0.00E+00	6.34E-07	0.00E+00	2.17E-05	7.00E-02	3.09E-04	7.00E-01	3.09E-05
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	5.07E-02	NA	1.31E-02	0.00E+00	1.39E-03	0.00E+00	8.02E-02	4.00E+01	2.00E-03	8.00E+01	1.00E-03
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.87E-02	0.00E+00	0.00E+00	3.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	5.07E+02	7.76E-04	1.13E+03	3.48E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.09E-03	0.00E+00	0.00E+00	4.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-02	5.07E+02	1.02E-04	1.13E+03	4.58E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	1.35E-07	0.00E+00	3.75E-07	0.00E+00	1.22E-05	4.58E+00	2.67E-06	9.16E+00	1.34E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	3.70E-05	0.00E+00	4.64E-07	0.00E+00	1.24E-06	0.00E+00	4.00E-05	2.40E-01	1.67E-04	2.40E+00	1.67E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	1.60E-02	0.00E+00	3.17E-04	0.00E+00	5.44E-04	0.00E+00	1.74E-02	2.40E-01	7.25E-02	2.40E+00	7.25E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	1.74E-04	NA	7.40E-02	0.00E+00	2.14E-05	0.00E+00	7.44E-02	8.50E+00	8.75E-03	2.55E+01	2.92E-03
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E+00	1.51E+00	2.66E-04	2.60E-03	8.81E-04	1.66E-03	3.73E-02	3.40E-03	0.00E+00	5.16E-03	0.00E+00	1.42E-04	0.00E+00	5.14E-02	2.00E-01	2.57E-01	3.30E-01	1.56E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	4.83E-03	0.00E+00	0.00E+00	6.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-02	1.90E+01	3.91E-03	5.70E+01	1.30E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.06E-02	0.00E+00	0.00E+00	8.50E-03	0.00E+00	8.21E-02	0.00E+00	3.61E-03	0.00E+00	1.25E-01	2.63E+02	4.75E-04	7.89E+02	1.58E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.07E-01	1.08E-02	3.07E-01	8.31E+00	1.45E-02	2.94E-01	0.00E+00	8.22E-01	0.00E+00	3.61E-02	0.00E+00	1.07E+01	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							8.25E-05	1.47E-03	0.00E+00	1.89E-04	2.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-02	7.40E-03	3.08E+00	7.40E-02	3.08E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.96E-07	0.00E+00	0.00E+00	1.73E-05	0.00E+00	7.09E-08	0.00E+00	5.55E-07	0.00E+00	1.85E-05	4.58E+00	4.04E-06	9.16E+00	2.02E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	3.41E-02	0.00E+00	0.00E+00	4.57E-03	0.00E+00	1.57E-03	0.00E+00	1.99E-04	0.00E+00	4.05E-02	2.10E-01	1.93E-01	2.10E+00	1.93E-02
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	5.35E-03	1.84E-01	1.13E-01	4.75E-01	1.13E+00	1.73E-01	0.00E+00	1.28E+00	0.00E+00	2.22E-02	0.00E+00	3.38E+00	1.60E+02	2.11E-02	3.20E+02	1.06E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-05	9.0E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.4E-04	1.1E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.7E-02	3.6E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.5E-03	1.5E-04
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Table O-57
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.07E-10	6.46E-10	1.63E-09	2.16E-06	1.52E-07	3.89E-07	0.00E+00	3.19E-10	0.00E+00	3.56E-10	0.00E+00	2.70E-06	1.00E-06	2.70E+00	1.00E-05	2.70E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	1.23E-06	5.80E-07	0.00E+00	5.54E-06	9.65E-05	0.00E+00	1.99E-06	0.00E+00	2.39E-06	0.00E+00	1.08E-04	8.00E-01	1.35E-04	4.00E+00	2.71E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.78E-06	0.00E+00	0.00E+00	2.98E-04	0.00E+00	4.73E-05	0.00E+00	6.32E-06	0.00E+00	3.53E-04	8.00E-01	4.41E-04	4.00E+00	8.83E-05
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	1.26E-06	9.23E-07	0.00E+00	2.27E-05	1.59E-04	0.00E+00	3.17E-06	0.00E+00	5.48E-06	0.00E+00	1.93E-04	8.00E-01	2.41E-04	4.00E+00	4.82E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.75E-08	0.00E+00	0.00E+00	1.33E-05	0.00E+00	2.25E-08	0.00E+00	3.19E-07	0.00E+00	1.38E-05	2.00E-01	6.88E-05	1.00E+00	1.38E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.56E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	2.69E-07	0.00E+00	6.41E-07	0.00E+00	2.74E-05	4.58E+00	5.98E-06	9.16E+00	2.99E-06
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.73E-01	4.26E+00	0.00E+00	1.33E-02	2.06E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+02	1.93E+00	1.09E+02	1.93E+01	1.09E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	3.22E-03	0.00E+00	7.91E-04	0.00E+00	1.57E-04	0.00E+00	4.43E-03	1.25E-01	3.55E-02	1.25E+00	3.55E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	2.15E-04	0.00E+00	8.88E-06	0.00E+00	5.23E-06	0.00E+00	2.31E-04	6.85E-02	3.37E-03	6.85E-01	3.37E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.88E-07	0.00E+00	0.00E+00	9.96E-05	0.00E+00	2.55E-07	0.00E+00	2.42E-06	0.00E+00	1.03E-04	6.80E-02	1.51E-03	6.90E-01	1.49E-04
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	2.11E-05	1.70E-06	0.00E+00	4.96E-03	2.96E-04	0.00E+00	6.45E-07	0.00E+00	6.46E-06	0.00E+00	5.28E-03	6.80E-02	7.77E-02	6.90E-01	7.65E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	5.65E-04	0.00E+00	6.03E-07	0.00E+00	2.12E-05	0.00E+00	5.90E-04	6.80E-02	8.68E-03	6.90E-01	8.55E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-07	0.00E+00	0.00E+00	5.28E-05	0.00E+00	7.94E-06	0.00E+00	1.45E-06	0.00E+00	6.26E-05	6.80E-02	9.20E-04	6.90E-01	9.07E-05
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	5.54E-02	0.00E+00	0.00E+00	2.67E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E+00	5.10E+00	5.35E-01	1.98E+01	1.38E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	4.00E-03	0.00E+00	3.88E-03	0.00E+00	1.16E-04	0.00E+00	8.03E-03	4.00E+00	2.01E-03	4.00E+01	2.01E-04
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.00E-03	0.00E+00	0.00E+00	5.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-02	1.83E+01	3.15E-03	1.83E+02	3.15E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	2.17E-04	1.59E-04	0.00E+00	1.86E-02	4.78E-03	0.00E+00	6.49E-03	0.00E+00	5.24E-04	0.00E+00	3.08E-02	1.00E+00	3.08E-02	1.00E+01	3.08E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.77E-08	0.00E+00	0.00E+00	1.31E-05	0.00E+00	1.34E-07	0.00E+00	3.20E-07	0.00E+00	1.36E-05	4.58E+00	2.98E-06	9.16E+00	1.49E-06
Chromium (trivalent)	0.00E+00	mg/L	1.21E+01	mg/kg	1.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	5.00E-03	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.03E-01	0.00E+00	5.95E-03	0.00E+00	1.15E-01	2.74E+03	4.20E-05	2.74E+04	4.20E-06
Chromium (hexavalent)	0.00E+00	mg/L	1.71E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	1.45E-05	0.00E+00	1.46E-03	0.00E+00	8.45E-05	0.00E+00	1.63E-03	3.28E+00	4.97E-04	1.31E+01	1.24E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	1.73E-05	0.00E+00	1.77E-07	0.00E+00	4.22E-07	0.00E+00	1.80E-05	4.58E+00	3.93E-06	9.16E+00	1.97E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.17E-03	5.24E-03	3.08E-03	1.24E-01	2.95E-01	4.34E-02	0.00E+00	7.58E-02	0.00E+00	1.64E-03	0.00E+00	5.49E-01	1.17E+01	4.70E-02	1.51E+01	3.63E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	1.24E-06	7.69E-08	0.00E+00	7.71E-05	1.26E-05	0.00E+00	5.40E-06	0.00E+00	3.16E-07	0.00E+00	9.68E-05	2.00E-02	4.84E-03	2.00E-01	4.84E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	1.87E-05	0.00E+00	1.87E-07	0.00E+00	4.96E-07	0.00E+00	1.95E-05	9.20E-02	2.11E-04	9.20E-01	2.11E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.13E-08	0.00E+00	0.00E+00	1.52E-05	0.00E+00	7.39E-08	0.00E+00	3.76E-07	0.00E+00	1.57E-05	8.00E-02	1.96E-04	2.90E-01	5.42E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.59E-01	0.00E+00	4.16E+00	4.65E+00	0.00E+00	3.47E+00	0.00E+00	7.12E-01	0.00E+00	3.07E-02	0.00E+00	1.33E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	6.39E-04	3.17E-02	7.38E-02	1.72E-02	8.42E-02	1.46E-02	0.00E+00	8.55E-02	0.00E+00	3.50E-03	0.00E+00	3.11E-01	8.00E+00	3.89E-02	8.00E+01	3.89E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.25E-02	0.00E+00	3.87E-01	8.08E-01	0.00E+00	9.17E-01	0.00E+00	1.66E+00	0.00E+00	1.32E-02	0.00E+00	3.81E+00	8.80E+01	4.33E-02	2.84E+02	1.34E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	1.89E-03	NA	1.42E-03	0.00E+00	9.07E-06	0.00E+00	3.35E-03	1.00E+00	3.35E-03	3.00E+00	1.12E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	1.10E-04	0.00E+00	0.00E+00	8.81E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.90E-04	1.50E-02	6.60E-02	2.50E-02	3.96E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	2.08E-07	0.00E+00	5.82E-07	0.00E+00	2.55E-05	7.00E-02	3.65E-04	7.00E-01	3.65E-05
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	2.94E-03	0.00E+00	0.00E+00	1.49E-01	NA	8.39E-03	0.00E+00	1.06E-03	0.00E+00	1.62E-01	4.00E+01	4.04E-03	8.00E+01	2.02E-03
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.30E-02	0.00E+00	0.00E+00	1.40E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E+00	5.07E+02	2.90E-03	1.13E+03	1.30E-03
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.69E-03	0.00E+00	0.00E+00	1.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-01	5.07E+02	2.66E-04	1.13E+03	1.19E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.28E-08	0.00E+00	0.00E+00	1.19E-05	0.00E+00	8.22E-08	0.00E+00	3.00E-07	0.00E+00	1.24E-05	4.58E+00	2.70E-06	9.16E+00	1.35E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.66E-07	0.00E+00	0.00E+00	5.95E-05	0.00E+00	5.25E-07	0.00E+00	1.51E-06	0.00E+00	6.19E-05	2.40E-01	2.58E-04	2.40E+00	2.58E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	2.79E-02	0.00E+00	5.29E-04	0.00E+00	7.20E-04	0.00E+00	2.93E-02	2.40E-01	1.22E-01	2.40E+00	1.22E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	1.42E-03	NA	9.34E-02	0.00E+00	6.88E-05	0.00E+00	9.50E-02	8.50E+00	1.12E-02	2.55E+01	3.72E-03
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	3.08E-04	5.34E-04	1.71E-04	1.13E-03	2.58E-02	2.16E-03	0.00E+00	3.40E-03	0.00E+00	1.19E-04	0.00E+00	3.36E-02	2.00E-01	1.68E-01	3.30E-01	1.02E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	1.10E-03	0.00E+00	0.00E+00	5.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-02	1.90E+01	2.85E-03	5.70E+01	9.51E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.91E-03	0.00E+00	0.00E+00	1.76E-02	0.00E+00	8.87E-02	0.00E+00	3.51E-03	0.00E+00	1.16E-01	2.63E+02	4.40E-04	7.89E+02	1.47E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.17E+00	2.51E-03	9.53E-02	2.25E+01	5.64E-02	1.16E+00	0.00E+00	1.43E+00	0.00E+00	5.65E-02	0.00E+00	2.65E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.40E-04	2.91E-04	0.00E+00	4.00E-02	1.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-02	7.40E-03	7.36E+00	7.40E-02	7.36E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-07	0.00E+00	0.00E+00	2.12E-05	0.00E+00	2.17E-07	0.00E+00	5.17E-07	0.00E+00	2.21E-05	4.58E+00	4.82E-06	9.16E+00	2.41E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	6.35E-03	0.00E+00	0.00E+00	5.99E-03	0.00E+00	1.09E-03	0.00E+00	1.34E-04	0.00E+00	1.36E-02	2.10E-01	6.46E-02	2.10E+00	6.46E-03
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	7.23E-03	3.90E-02	2.44E-02	6.49E-01	3.14E+00	1.25E-01	0.00E+00	8.44E-01	0.00E+00	3.93E-02	0.00E+00	4.87E+00	1.60E+02	3.04E-02	3.20E+02	1.52E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.0E-05	1.0E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.2E-04	1.6E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	9.2E-02	9.1E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	3.1E-03	3.2E-04
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Table O-58
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	5.76E-10	5.26E-10	1.32E-09	2.39E-07	2.63E-08	1.56E-07	0.00E+00	2.19E-10	0.00E+00	2.23E-10	0.00E+00	4.24E-07	1.00E-06	4.24E-01	1.00E-05	4.24E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	1.06E-06	3.32E-07	0.00E+00	4.77E-06	3.18E-05	0.00E+00	3.98E-07	0.00E+00	1.04E-06	0.00E+00	3.94E-05	8.00E-01	4.92E-05	4.00E+00	9.85E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.28E-06	0.00E+00	0.00E+00	1.24E-04	0.00E+00	7.48E-06	0.00E+00	4.32E-06	0.00E+00	1.37E-04	8.00E-01	1.71E-04	4.00E+00	3.42E-05
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	1.08E-06	4.42E-07	0.00E+00	1.95E-05	4.40E-05	0.00E+00	5.31E-07	0.00E+00	1.40E-06	0.00E+00	6.69E-05	8.00E-01	8.36E-05	4.00E+00	1.67E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.29E-08	0.00E+00	0.00E+00	7.24E-06	0.00E+00	1.52E-08	0.00E+00	2.28E-07	0.00E+00	7.55E-06	2.00E-01	3.78E-05	1.00E+00	7.55E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.31E-07	0.00E+00	0.00E+00	1.27E-05	0.00E+00	5.22E-08	0.00E+00	4.09E-07	0.00E+00	1.33E-05	4.58E+00	2.90E-06	9.16E+00	1.45E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.42E-01	3.72E+00	0.00E+00	1.10E-02	1.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+02	1.93E+00	9.49E+01	1.93E+01	9.49E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	6.78E-04	0.00E+00	3.35E-04	0.00E+00	8.34E-05	0.00E+00	1.31E-03	1.25E-01	1.05E-02	1.25E+00	1.05E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.03E-04	0.00E+00	3.80E-07	0.00E+00	3.31E-06	0.00E+00	1.08E-04	6.85E-02	1.58E-03	6.85E-01	1.58E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.01E-07	0.00E+00	0.00E+00	4.89E-05	0.00E+00	1.80E-07	0.00E+00	1.57E-06	0.00E+00	5.11E-05	6.80E-02	7.52E-04	6.90E-01	7.41E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	1.74E-05	1.37E-06	0.00E+00	8.70E-04	1.38E-04	0.00E+00	2.11E-07	0.00E+00	2.44E-06	0.00E+00	1.03E-03	6.80E-02	1.51E-02	6.90E-01	1.49E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.78E-04	0.00E+00	4.64E-08	0.00E+00	1.01E-05	0.00E+00	1.89E-04	6.80E-02	2.79E-03	6.90E-01	2.75E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.28E-07	0.00E+00	0.00E+00	2.84E-05	0.00E+00	7.40E-06	0.00E+00	1.03E-06	0.00E+00	3.71E-05	6.80E-02	5.46E-04	6.90E-01	5.38E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	4.89E-02	0.00E+00	0.00E+00	2.36E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	5.10E+00	4.72E-01	1.98E+01	1.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	1.73E-03	0.00E+00	2.91E-03	0.00E+00	6.61E-05	0.00E+00	4.73E-03	4.00E+00	1.18E-03	4.00E+01	1.18E-04
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.18E-03	0.00E+00	0.00E+00	1.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	1.83E+01	8.88E-04	1.83E+02	8.90E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	2.00E-04	1.25E-04	0.00E+00	1.29E-03	4.39E-03	0.00E+00	5.69E-03	0.00E+00	3.01E-04	0.00E+00	1.20E-02	1.00E+00	1.20E-02	1.00E+01	1.20E-03
Chlordane	0.00E+00	mg/L	1.73E-04	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.17E-08	0.00E+00	0.00E+00	6.98E-06	0.00E+00	2.86E-08	0.00E+00	2.24E-07	0.00E+00	7.30E-06	4.58E+00	1.59E-06	9.16E+00	7.97E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	4.50E-03	0.00E+00	0.00E+00	9.16E-04	0.00E+00	7.91E-03	0.00E+00	1.36E-03	0.00E+00	1.47E-02	2.74E+03	5.37E-06	2.74E+04	5.37E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	1.30E-05	0.00E+00	1.12E-04	0.00E+00	1.93E-05	0.00E+00	2.09E-04	3.28E+00	6.36E-05	1.31E+01	1.59E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.78E-08	0.00E+00	0.00E+00	8.55E-06	0.00E+00	3.51E-08	0.00E+00	2.75E-07	0.00E+00	8.95E-06	4.58E+00	1.95E-06	9.16E+00	9.77E-07
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.01E-03	4.49E-03	2.70E-03	2.01E-02	7.50E-02	4.21E-02	0.00E+00	7.21E-02	0.00E+00	8.66E-04	0.00E+00	2.18E-01	1.17E+01	1.87E-02	1.51E+01	1.44E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	1.06E-06	7.12E-08	0.00E+00	6.61E-05	6.72E-06	0.00E+00	7.32E-08	0.00E+00	2.23E-07	0.00E+00	7.43E-05	2.00E-02	3.71E-03	2.00E-01	3.71E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	9.85E-08	0.00E+00	0.00E+00	9.29E-06	0.00E+00	1.16E-07	0.00E+00	4.27E-07	0.00E+00	9.93E-06	9.20E+02	1.08E-04	9.20E+01	1.08E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.00E-08	0.00E+00	0.00E+00	7.67E-06	0.00E+00	5.44E-08	0.00E+00	2.50E-07	0.00E+00	8.05E-06	8.00E-02	1.01E-04	2.90E-01	2.78E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.21E-01	0.00E+00	3.77E+00	9.92E-01	0.00E+00	1.45E+00	0.00E+00	6.46E-01	0.00E+00	2.37E-02	0.00E+00	7.11E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.15E-04	2.47E-02	5.48E-02	4.15E-03	5.98E-02	1.08E-02	0.00E+00	7.24E-02	0.00E+00	2.28E-03	0.00E+00	2.29E-01	8.00E+00	2.87E-02	8.00E+01	2.87E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.75E-02	0.00E+00	3.44E-01	7.84E-02	0.00E+00	8.32E-01	0.00E+00	1.16E+00	0.00E+00	9.31E-03	0.00E+00	2.44E+00	8.80E+01	2.78E-02	2.84E+02	8.61E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	1.83E-03	NA	1.35E-03	0.00E+00	7.31E-06	0.00E+00	3.21E-03	1.00E+00	3.21E-03	3.00E+00	1.07E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	8.65E-05	0.00E+00	0.00E+00	6.95E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.81E-04	1.50E-02	5.21E-02	2.50E-02	3.13E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.19E-07	0.00E+00	0.00E+00	1.20E-05	0.00E+00	1.76E-08	0.00E+00	3.74E-07	0.00E+00	1.25E-05	7.00E-02	1.78E-04	7.00E-01	1.78E-05
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	2.99E-02	NA	7.72E-03	0.00E+00	8.19E-04	0.00E+00	4.11E-02	4.00E+01	1.03E-03	8.00E+01	5.13E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.87E-02	0.00E+00	0.00E+00	2.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-01	5.07E+02	4.89E-04	1.13E+03	2.19E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.09E-03	0.00E+00	0.00E+00	2.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-02	5.07E+02	6.43E-05	1.13E+03	2.89E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.07E-08	0.00E+00	0.00E+00	6.67E-06	0.00E+00	7.98E-08	0.00E+00	2.21E-07	0.00E+00	7.04E-06	4.58E+00	1.54E-06	9.16E+00	7.69E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.18E-05	0.00E+00	2.73E-07	0.00E+00	7.28E-07	0.00E+00	2.31E-05	2.40E-01	9.61E-05	2.40E+00	9.61E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	9.41E-03	0.00E+00	1.87E-04	0.00E+00	3.21E-04	0.00E+00	1.00E-02	2.40E-01	4.17E-02	2.40E+00	4.17E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	1.03E-04	NA	4.36E-02	0.00E+00	1.26E-05	0.00E+00	4.38E-02	8.50E+00	5.15E-03	2.55E+01	1.72E-03
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	2.66E-04	4.56E-04	1.55E-04	9.78E-04	2.20E-02	2.01E-03	0.00E+00	3.04E-03	0.00E+00	8.34E-05	0.00E+00	2.90E-02	2.00E-01	1.45E-01	3.30E-01	8.79E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	8.48E-04	0.00E+00	0.00E+00	4.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-02	1.90E+01	2.20E-03	5.70E+01	7.33E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.38E-03	0.00E+00	0.00E+00	5.01E-03	0.00E+00	4.84E-02	0.00E+00	2.13E-03	0.00E+00	6.09E-02	2.63E+02	2.32E-04	7.89E+02	7.72E-05
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.07E-01	1.90E-03	5.38E-02	4.90E+00	8.55E-03	1.73E-01	0.00E+00	4.85E-01	0.00E+00	2.13E-02	0.00E+00	6.55E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							8.25E-05	2.58E-04	0.00E+00	1.11E-04	1.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	7.40E-03	1.74E+00	7.40E-02	1.74E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.05E-07	0.00E+00	0.00E+00	1.02E-05	0.00E+00	4.18E-08	0.00E+00	3.28E-07	0.00E+00	1.07E-05	4.58E+00	2.33E-06	9.16E+00	1.16E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	5.99E-03	0.00E+00	0.00E+00	2.70E-03	0.00E+00	9.25E-04	0.00E+00	1.17E-04	0.00E+00	9.73E-03	2.10E-01	4.63E-02	2.10E+00	4.63E-03
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	5.35E-03	3.22E-02	1.99E-02	2.80E-01	6.69E-01	1.02E-01	0.00E+00	7.53E-01	0.00E+00	1.31E-02	0.00E+00	1.87E+00	1.60E+02	1.17E-02	3.20E+02	5.86E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-05	5.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.0E-04	6.1E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.1E-02	2.1E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	8.9E-04	8.9

Table O-59
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.89E-09	0.00E+00	5.52E-08	0.00E+00	0.00E+00	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	1.00E-06	9.49E+00	1.00E-05	9.49E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	8.00E-01	2.98E-03	4.00E+00	5.96E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	6.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03	8.00E-01	8.76E-03	4.00E+00	1.75E-03
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	8.00E-01	3.97E-03	4.00E+00	7.94E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.84E-06	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	2.00E-01	1.77E-03	1.00E+00	3.54E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	4.58E+00	1.37E-04	9.16E+00	6.86E-05
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-01	1.93E+00	2.39E-01	1.93E+01	2.39E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.93E-03	0.00E+00	0.00E+00	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-02	1.25E-01	6.20E-01	1.25E+00	6.20E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03	6.85E-02	7.59E-02	6.85E-01	7.59E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	6.80E-02	3.45E-02	6.80E-01	3.45E-03
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	7.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-03	6.80E-02	1.04E-01	6.80E-01	1.04E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	6.80E-02	1.69E-01	6.80E-01	1.69E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	6.80E-02	2.00E-02	6.80E-01	2.00E-03
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-02	4.00E+00	9.00E-03	4.00E+01	9.00E-04
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	1.83E+01	2.91E-04	1.83E+02	2.92E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	8.28E-01	9.40E-01	9.40E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	5.52E-03	0.00E+00	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-01	1.00E+00	1.23E-01	1.00E+01	1.23E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.70E-06	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	4.58E+00	7.20E-05	9.16E+00	3.60E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.60E-01	0.00E+00	0.00E+00	2.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-01	2.74E+03	6.70E-05	2.74E+04	6.70E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	3.28E+00	7.94E-04	1.31E+01	1.98E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	4.58E+00	9.40E-05	9.16E+00	4.70E-05
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	4.15E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01	3.12E-03	0.00E+00	1.03E-01	0.00E+00	0.00E+00	1.05E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00	1.17E+01	9.87E-02	1.51E+01	7.63E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-06	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	2.00E-02	1.56E-02	2.00E-01	1.56E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.87E-06	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	9.20E-02	4.98E-03	9.20E-01	4.98E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	8.00E-02	4.96E-03	2.90E-01	1.37E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.91E-01	0.00E+00	1.40E+02	0.00E+00	0.00E+00	8.43E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.91E-02	2.91E-02	1.33E-02	1.33E-02	1.71E-03	0.00E+00	2.11E+00	0.00E+00	0.00E+00	3.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	8.00E+00	3.02E-01	8.00E+01	3.02E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	6.01E-02	0.00E+00	1.34E+01	0.00E+00	0.00E+00	2.27E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E+01	8.80E+01	4.11E-01	2.84E+02	1.28E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	7.94E-04	0.00E+00	0.00E+00	4.51E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	1.32E+01	3.48E-03	3.96E+01	1.16E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.79E-06	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	7.00E-02	8.61E-03	7.00E-01	8.61E-04
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.72E-02	6.72E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.54E-02	0.00E+00	0.00E+00	3.47E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E+00	4.00E+01	8.92E-02	8.00E+01	4.46E-02
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.95E-01	0.00E+00	2.60E-02	0.00E+00	0.00E+00	2.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-01	5.07E+02	8.86E-04	1.13E+03	3.97E-04
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	5.07E+02	3.52E-05	1.13E+03	1.58E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	4.58E+00	6.64E-05	9.16E+00	3.32E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	2.40E-01	6.19E-03	2.40E+00	6.19E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.43E-03	0.00E+00	0.00E+00	8.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-01	2.40E-01	3.57E+00	2.40E+00	3.57E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	1.10E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	8.50E+00	1.45E-03	2.55E+01	4.82E-04
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	5.20E-01	4.62E-01	4.62E-01	1.95E-01	1.95E-01	8.22E-04	0.00E+00	5.55E-03	0.00E+00	0.00E+00	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-02	2.00E-01	2.86E-01	3.30E-01	1.73E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.99E-01	0.00E+00	0.00E+00	4.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-01	2.63E+02	2.38E-03	7.89E+02	7.92E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.13E+00	0.00E+00	2.88E+01	0.00E+00	0.00E+00	2.52E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E+02	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							3.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	7.40E-03	5.05E-02	7.40E-02	5.05E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	4.58E+00	1.18E-04	9.16E+00	5.89E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	2.15E-01	0.00E+00	0.00E+00	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-01	2.10E-01	1.71E+00	2.10E+00	1.71E-01
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.03E-01	8.03E-01	4.51E-01	4.51E-01	1.93E-02	0.00E+00	8.33E-01	0.00E+00	0.00E+00	3.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0

Table O-60
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.54E-09	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	1.00E-06	3.81E+00	1.00E-05	3.81E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04	8.00E-01	1.01E-03	4.00E+00	2.01E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	8.00E-01	3.78E-03	4.00E+00	7.56E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	8.00E-01	1.39E-03	4.00E+00	2.78E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.53E-06	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	2.00E-01	9.13E-04	1.00E+00	1.83E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.35E-06	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	4.58E+00	6.73E-05	9.16E+00	3.36E-05
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.81E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-01	1.93E+00	1.97E-01	1.93E+01	1.97E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	7.15E-03	0.00E+00	0.00E+00	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-02	1.25E-01	1.89E-01	1.25E+00	1.89E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	6.85E-02	3.67E-02	6.85E-01	3.67E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	6.80E-02	1.71E-02	6.80E-01	1.71E-03
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	6.80E-02	4.90E-02	6.80E-01	4.90E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03	6.80E-02	6.35E-02	6.80E-01	6.35E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	6.80E-02	1.09E-02	6.80E-01	1.09E-03
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	4.00E+00	4.58E-03	4.00E+01	4.58E-04
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03	1.83E+01	1.71E-04	1.83E+02	1.72E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	8.58E-01	1.03E+00	1.03E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	1.00E+00	1.13E-01	1.00E+01	1.13E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.01E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	4.58E+00	4.66E-05	9.16E+00	2.33E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.50E-01	0.00E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-01	2.74E+03	6.27E-05	2.74E+04	6.27E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	3.28E+00	7.43E-04	1.31E+01	1.85E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	4.58E+00	4.74E-05	9.16E+00	2.37E-05
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	4.57E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	2.70E-03	0.00E+00	9.05E-02	0.00E+00	0.00E+00	1.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	1.17E+01	9.49E-02	1.51E+01	7.34E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	2.00E-02	8.45E-03	2.00E-01	8.45E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	9.20E-02	2.76E-03	9.20E-01	2.76E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	8.00E-02	2.49E-03	2.90E-01	6.86E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	5.90E-01	0.00E+00	1.27E+02	0.00E+00	0.00E+00	3.52E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.84E-02	4.37E-02	3.21E-02	3.21E-02	1.16E-02	1.16E-02	1.38E-03	0.00E+00	1.68E+00	0.00E+00	0.00E+00	2.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+00	8.00E+00	2.40E-01	8.00E+01	2.40E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.66E-02	0.00E+00	1.16E+01	0.00E+00	0.00E+00	2.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E+01	8.80E+01	3.61E-01	2.84E+02	1.12E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	7.08E-04	0.00E+00	0.00E+00	4.34E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-02	1.32E+01	3.34E-03	3.96E+01	1.11E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.01E-06	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	7.00E-02	4.18E-03	7.00E-01	4.18E-04
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.64E-02	0.00E+00	0.00E+00	7.04E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-01	4.00E+01	1.98E-02	8.00E+01	9.88E-03
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-01	0.00E+00	1.57E-02	0.00E+00	0.00E+00	3.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-01	5.07E+02	3.07E-04	1.13E+03	1.38E-04
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	5.07E+02	2.68E-05	1.13E+03	1.20E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	4.58E+00	3.58E-05	9.16E+00	1.79E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.78E-06	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	2.40E-01	2.21E-03	2.40E+00	2.21E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.30E-03	0.00E+00	0.00E+00	3.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-01	2.40E-01	1.48E+00	2.40E+00	1.48E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	1.60E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	8.50E+00	2.70E-04	2.55E+01	9.00E-05
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	7.10E-04	0.00E+00	5.17E-03	0.00E+00	0.00E+00	4.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-02	2.00E-01	2.71E-01	3.30E-01	1.64E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.81E-01	0.00E+00	0.00E+00	1.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	2.63E+02	1.15E-03	7.89E+02	3.84E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.42E+00	0.00E+00	1.92E+01	0.00E+00	0.00E+00	4.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E+01	NA	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	7.40E-03	2.98E-02	7.40E-02	2.98E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	4.58E+00	5.70E-05	9.16E+00	2.85E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	2.02E-01	0.00E+00	0.00E+00	6.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-01	2.10E-01	1.27E+00	2.10E+00	1.27E-01
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	1.43E-02	0.00E+00	6.69E-01

Table O-61
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.25E-10	0.00E+00	3.74E-09	0.00E+00	0.00E+00	8.90E-08	0.00E+00	7.28E-11	0.00E+00	5.69E-09	1.22E-09	1.00E-07	1.00E-06	1.00E-01	1.00E-05	1.00E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	2.23E-05	0.00E+00	4.60E-07	0.00E+00	3.86E-05	8.28E-06	7.10E-05	8.00E-01	8.87E-05	4.00E+00	1.77E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.93E-06	0.00E+00	0.00E+00	6.55E-05	0.00E+00	1.04E-05	0.00E+00	9.74E-05	2.09E-05	1.98E-04	8.00E-01	2.48E-04	4.00E+00	4.96E-05
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.73E-06	0.00E+00	0.00E+00	2.97E-05	0.00E+00	5.91E-07	0.00E+00	7.17E-05	1.54E-05	1.19E-04	8.00E-01	1.49E-04	4.00E+00	2.98E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	3.32E-06	0.00E+00	5.59E-09	0.00E+00	5.55E-06	1.19E-06	1.03E-05	2.00E-01	5.13E-05	1.00E+00	1.03E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.49E-07	0.00E+00	0.00E+00	5.88E-06	0.00E+00	6.02E-08	0.00E+00	1.00E-05	2.15E-06	1.85E-05	4.58E+00	4.03E-06	9.16E+00	2.02E-06
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-01	1.93E+00	9.18E-02	1.93E+01	9.18E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	6.56E-04	0.00E+00	1.61E-04	0.00E+00	2.23E-03	4.78E-04	4.07E-03	1.25E-01	3.25E-02	1.25E+00	3.25E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	4.87E-05	0.00E+00	2.01E-06	0.00E+00	8.28E-05	1.77E-05	1.54E-04	6.85E-02	2.25E-03	6.85E-01	2.25E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.30E-06	0.00E+00	0.00E+00	2.20E-05	0.00E+00	5.62E-08	0.00E+00	3.74E-05	8.01E-06	6.87E-05	6.80E-02	1.01E-03	6.90E-01	9.96E-05
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	6.64E-05	0.00E+00	1.45E-07	0.00E+00	1.01E-04	2.17E-05	1.94E-04	6.80E-02	2.85E-03	6.90E-01	2.80E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	1.15E-07	0.00E+00	2.82E-04	6.05E-05	4.56E-04	6.80E-02	6.71E-03	6.90E-01	6.61E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.50E-07	0.00E+00	0.00E+00	1.27E-05	0.00E+00	1.91E-06	0.00E+00	2.44E-05	5.24E-06	4.52E-05	6.80E-02	6.64E-04	6.90E-01	6.55E-05
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.26E-04	0.00E+00	6.82E-04	1.46E-04	1.51E-03	4.00E+00	3.78E-04	4.00E+01	3.78E-05
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	1.12E-04	1.83E+02	1.12E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	8.28E-01	9.40E-01	9.40E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	1.10E-03	0.00E+00	1.51E-03	0.00E+00	8.62E-03	1.85E-03	1.35E-02	1.00E+00	1.35E-02	1.00E+01	1.35E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	0.00E+00	3.08E-06	0.00E+00	3.16E-08	0.00E+00	5.26E-06	1.13E-06	9.69E-06	4.58E+00	2.12E-06	9.16E+00	1.06E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	2.21E-04	0.00E+00	2.23E-02	0.00E+00	9.03E-02	1.94E-02	1.43E-01	2.74E+03	5.23E-05	2.74E+04	5.23E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	3.13E-06	0.00E+00	3.17E-04	0.00E+00	1.28E-03	2.75E-04	2.03E-03	3.28E+00	6.19E-04	1.31E+01	1.55E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.39E-07	0.00E+00	0.00E+00	4.03E-06	0.00E+00	4.12E-08	0.00E+00	6.87E-06	1.47E-06	1.27E-05	4.58E+00	2.76E-06	9.16E+00	1.38E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	4.15E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01	1.20E-03	0.00E+00	6.97E-03	0.00E+00	0.00E+00	9.90E-03	0.00E+00	1.72E-02	0.00E+00	2.60E-02	5.57E-03	6.69E-02	1.17E+01	5.71E-03	1.51E+01	4.42E-03
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.79E-07	0.00E+00	0.00E+00	2.92E-06	0.00E+00	1.25E-06	0.00E+00	5.14E-06	1.10E-06	1.06E-05	2.00E-02	5.29E-04	2.00E-01	5.29E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	2.62E-07	0.00E+00	0.00E+00	4.29E-06	0.00E+00	4.29E-08	0.00E+00	7.97E-06	1.71E-06	1.43E-05	9.20E-02	1.55E-04	9.20E-01	1.55E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.24E-07	0.00E+00	0.00E+00	3.71E-06	0.00E+00	1.81E-08	0.00E+00	6.43E-06	1.38E-06	1.18E-05	8.00E-02	1.47E-04	2.90E-01	4.06E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.65E-01	0.00E+00	9.53E+00	0.00E+00	0.00E+00	7.95E-01	0.00E+00	1.63E-01	0.00E+00	4.92E-01	1.05E-01	1.13E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.91E-02	2.91E-02	1.33E-02	1.33E-02	6.56E-04	0.00E+00	1.43E-01	0.00E+00	0.00E+00	2.83E-03	0.00E+00	1.78E-02	0.00E+00	4.76E-02	1.02E-02	2.22E-01	8.00E+00	2.78E-02	8.00E+01	2.78E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.31E-02	0.00E+00	9.12E-01	0.00E+00	0.00E+00	2.14E-01	0.00E+00	3.90E-01	0.00E+00	2.18E-01	4.67E-02	1.80E+00	8.80E+01	2.05E-02	2.84E+02	6.35E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	4.25E-04	NA	3.17E-04	0.00E+00	1.38E-04	2.97E-05	9.64E-04	1.00E+00	9.64E-04	3.00E+00	3.21E-04
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.25E-07	0.00E+00	0.00E+00	5.64E-06	0.00E+00	4.78E-08	0.00E+00	9.35E-06	2.00E-06	1.74E-05	7.00E-02	2.48E-04	7.00E-01	2.48E-05
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.72E-02	6.72E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	6.47E-03	0.00E+00	0.00E+00	3.27E-02	NA	1.86E-03	0.00E+00	1.63E-02	3.50E-03	6.09E-02	4.00E+01	1.52E-03	8.00E+01	7.61E-04
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.48E-02	0.00E+00	1.77E-03	0.00E+00	0.00E+00	2.15E-03	0.00E+00	2.64E-03	0.00E+00	7.32E-03	1.57E-03	9.03E-02	5.07E+02	1.78E-04	1.13E+03	7.99E-05
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	5.07E+02	1.35E-05	1.13E+03	6.07E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.74E-07	0.00E+00	0.00E+00	2.84E-06	0.00E+00	1.96E-08	0.00E+00	5.00E-06	1.07E-06	9.11E-06	4.58E+00	1.99E-06	9.16E+00	9.94E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.55E-07	0.00E+00	0.00E+00	1.39E-05	0.00E+00	1.22E-07	0.00E+00	2.46E-05	5.27E-06	4.47E-05	2.40E-01	1.86E-04	2.40E+00	1.86E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	8.01E-03	0.00E+00	1.52E-04	0.00E+00	1.45E-02	3.11E-03	2.63E-02	2.40E-01	1.09E-01	2.40E+00	1.09E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	1.04E-04	NA	1.09E-02	0.00E+00	3.54E-04	7.59E-05	1.16E-02	8.50E+00	1.36E-03	2.55E+01	4.53E-04
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	5.20E-01	4.62E-01	4.62E-01	1.95E-01	1.95E-01	3.16E-04	0.00E+00	3.76E-04	0.00E+00	0.00E+00	4.79E-04	0.00E+00	7.44E-04	0.00E+00	1.83E-03	3.92E-04	4.14E-03	2.00E-01	2.07E-02	3.30E-01	1.25E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	4.02E-03	0.00E+00	2.02E-02	0.00E+00	5.60E-02	1.20E-02	1.06E-01	2.63E+02	4.02E-04	7.89E+02	1.34E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.20E+00	0.00E+00	1.95E+00	0.00E+00	0.00E+00	2.38E+00	0.00E+00	2.92E+00	0.00E+00	8.09E+00	1.73E+00	1.83E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	7.40E-03	1.94E-02	7.40E-02	1.94E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.99E-07	0.00E+00	0.00E+00	5.04E-06	0.00E+00	5.16E-08	0.00E+00	8.61E-06	1.84E-06	1.58E-05	4.58E+00	3.46E-06	9.16E+00	1.73E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	1.46E-02	0.00E+00	0.00E+00	1.37E-03	0.00E+00	2.49E-04	0.00E+00	2.15E-03	4.61E-04	1.88E-02	2.10E-01	8.95E-02	2.10E+00	8.95E-03
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.03E-01	8.03E-01	4.51E-01	4.51E-01	7.41E-03	0.00E+00	5.65E-02	0.00E+00	0.00E+00	2.90E-02	0.00E+00	1.94E-01	0.00E+00	6.36E-01	1.36E-01	1.06E+00	1.60E+02	6.62E-03	3.20E+02	3.31E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.4E-05	7.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.9E-04	9.7E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-02	1.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.1E-04	1

Table O-62
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	5.91E-10	0.00E+00	3.01E-09	0.00E+00	0.00E+00	3.55E-08	0.00E+00	5.00E-11	0.00E+00	3.56E-09	7.62E-10	4.35E-08	1.00E-06	4.35E-02	1.00E-05	4.35E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.82E-07	0.00E+00	0.00E+00	7.48E-06	0.00E+00	9.36E-08	0.00E+00	1.71E-05	3.66E-06	2.91E-05	8.00E-01	3.64E-05	4.00E+00	7.28E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	2.81E-05	0.00E+00	1.70E-06	0.00E+00	6.87E-05	1.47E-05	1.16E-04	8.00E-01	1.45E-04	4.00E+00	2.90E-05
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	1.03E-05	0.00E+00	1.25E-07	0.00E+00	2.31E-05	4.94E-06	3.95E-05	8.00E-01	4.94E-05	4.00E+00	9.88E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.71E-07	0.00E+00	0.00E+00	1.70E-06	0.00E+00	3.57E-09	0.00E+00	3.75E-06	8.04E-07	6.43E-06	2.00E-01	3.21E-05	1.00E+00	6.43E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.95E-07	0.00E+00	0.00E+00	2.87E-06	0.00E+00	1.18E-08	0.00E+00	6.45E-06	1.38E-06	1.10E-05	4.58E+00	2.40E-06	9.16E+00	1.20E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-01	1.93E+00	7.57E-02	1.93E+01	7.57E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	1.56E-04	0.00E+00	7.68E-05	0.00E+00	1.34E-03	2.87E-04	2.34E-03	1.25E-01	1.88E-02	1.25E+00	1.88E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.40E-06	0.00E+00	0.00E+00	2.34E-05	0.00E+00	8.61E-08	0.00E+00	5.25E-05	1.12E-05	8.96E-05	6.85E-02	1.31E-03	6.85E-01	1.31E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	1.08E-05	0.00E+00	3.98E-08	0.00E+00	2.43E-05	5.20E-06	4.14E-05	6.80E-02	6.09E-04	6.90E-01	6.00E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	3.10E-06	0.00E+00	0.00E+00	3.10E-05	0.00E+00	4.75E-08	0.00E+00	3.85E-05	8.25E-06	8.09E-05	6.80E-02	1.19E-03	6.90E-01	1.17E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	4.02E-05	0.00E+00	1.05E-08	0.00E+00	1.59E-04	3.42E-05	2.38E-04	6.80E-02	3.49E-03	6.90E-01	3.44E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.99E-07	0.00E+00	0.00E+00	6.90E-06	0.00E+00	1.80E-06	0.00E+00	1.75E-05	3.74E-06	3.07E-05	6.80E-02	4.52E-04	6.90E-01	4.45E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	1.70E-04	0.00E+00	2.86E-04	0.00E+00	4.54E-04	9.73E-05	1.03E-03	4.00E+00	2.57E-04	4.00E+01	2.57E-05
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	1.83E+01	6.58E-05	1.83E+02	6.59E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	8.58E-01	1.03E+00	1.03E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.34E-03	0.00E+00	5.08E-03	1.09E-03	8.83E-03	1.00E+00	8.83E-03	1.00E+01	8.83E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.04E-07	0.00E+00	0.00E+00	1.99E-06	0.00E+00	8.15E-09	0.00E+00	4.47E-06	9.57E-07	7.62E-06	4.58E+00	1.66E-06	9.16E+00	8.32E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	2.06E-04	0.00E+00	1.78E-03	0.00E+00	2.14E-02	4.60E-03	3.82E-02	2.74E+03	1.40E-05	2.74E+04	1.40E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	2.93E-06	0.00E+00	2.53E-05	0.00E+00	3.04E-04	6.52E-05	5.42E-04	3.28E+00	1.65E-04	1.31E+01	4.13E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-07	0.00E+00	0.00E+00	2.02E-06	0.00E+00	8.30E-09	0.00E+00	4.55E-06	9.75E-07	7.76E-06	4.58E+00	1.69E-06	9.16E+00	8.47E-07
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	4.57E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	1.03E-03	0.00E+00	6.14E-03	0.00E+00	0.00E+00	9.60E-03	0.00E+00	1.64E-02	0.00E+00	1.37E-02	2.95E-03	4.99E-02	1.17E+01	4.26E-03	1.51E+01	3.29E-03
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.67E-07	0.00E+00	0.00E+00	1.57E-06	0.00E+00	1.71E-08	0.00E+00	3.65E-06	7.82E-07	6.19E-06	2.00E-02	3.09E-04	2.00E-01	3.09E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.36E-06	0.00E+00	2.94E-08	0.00E+00	7.59E-06	1.63E-06	1.19E-05	9.20E-02	1.29E-04	9.20E-01	1.29E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.85E-06	0.00E+00	1.31E-08	0.00E+00	4.23E-06	9.06E-07	7.19E-06	8.00E-02	8.99E-05	2.90E-01	2.48E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.27E-01	0.00E+00	8.62E+00	0.00E+00	0.00E+00	3.32E-01	0.00E+00	1.48E-01	0.00E+00	3.78E-01	8.11E-02	9.79E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.84E-02	4.37E-02	3.21E-02	3.21E-02	1.16E-02	1.16E-02	5.28E-04	0.00E+00	1.14E-01	0.00E+00	0.00E+00	2.25E-03	0.00E+00	1.57E-02	0.00E+00	3.31E-02	7.10E-03	1.73E-01	8.00E+00	2.16E-02	8.00E+01	2.16E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.79E-02	0.00E+00	7.86E-01	0.00E+00	0.00E+00	1.90E-01	0.00E+00	2.66E-01	0.00E+00	1.49E-01	3.19E-02	1.44E+00	8.80E+01	1.64E-02	2.84E+02	5.07E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	4.09E-04	NA	2.98E-04	0.00E+00	1.10E-04	2.35E-05	8.89E-04	1.00E+00	8.89E-04	3.00E+00	2.96E-04
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-07	0.00E+00	0.00E+00	2.72E-06	0.00E+00	4.00E-09	0.00E+00	5.95E-06	1.27E-06	1.02E-05	7.00E-02	1.46E-04	7.00E-01	1.46E-05
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	5.86E-03	0.00E+00	0.00E+00	6.64E-03	NA	1.73E-03	0.00E+00	1.27E-02	2.73E-03	2.97E-02	4.00E+01	7.42E-04	8.00E+01	3.71E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.97E-02	0.00E+00	1.07E-03	0.00E+00	0.00E+00	3.43E-04	0.00E+00	9.60E-04	0.00E+00	2.95E-03	6.33E-04	4.57E-02	5.07E+02	9.01E-05	1.13E+03	4.04E-05
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03	5.07E+02	1.03E-05	1.13E+03	4.62E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.62E-07	0.00E+00	0.00E+00	1.52E-06	0.00E+00	1.82E-08	0.00E+00	3.54E-06	7.58E-07	6.00E-06	4.58E+00	1.31E-06	9.16E+00	6.55E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.28E-07	0.00E+00	0.00E+00	4.94E-06	0.00E+00	6.19E-08	0.00E+00	1.15E-05	2.47E-06	1.95E-05	2.40E-01	8.14E-05	2.40E+00	8.14E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	3.29E-03	0.00E+00	6.55E-05	0.00E+00	7.87E-03	1.69E-03	1.33E-02	2.40E-01	5.53E-02	2.40E+00	5.53E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	1.51E-05	NA	7.70E-03	0.00E+00	1.30E-04	2.79E-05	7.92E-03	8.50E+00	9.32E-04	2.55E+01	3.11E-04
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	2.72E-04	0.00E+00	3.51E-04	0.00E+00	0.00E+00	4.55E-04	0.00E+00	6.89E-04	0.00E+00	1.32E-03	2.83E-04	3.37E-03	2.00E-01	1.69E-02	3.30E-01	1.02E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	1.15E-03	0.00E+00	1.11E-02	0.00E+00	3.40E-02	7.29E-03	6.58E-02	2.63E+02	2.50E-04	7.89E+02	8.34E-05
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.30E-01	0.00E+00	1.30E+00	0.00E+00	0.00E+00	4.19E-01	0.00E+00	1.17E+00	0.00E+00	3.61E+00	7.73E-01	8.21E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							8.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-05	7.40E-03	1.14E-02	7.40E-02	1.14E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.43E-06	0.00E+00	9.96E-09	0.00E+00	5.46E-06	1.17E-06	9.32E-06	4.58E+00	2.03E-06	9.16E+00	1.02E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	1.37E-02	0.00E+00	0.00E+00	6.16E-04	0.00E+00	2.11E-04	0.00E+00	1.88E-03	4.02E-04	1.68E-02	2.10E-01	8.01E-02	2.10E+00	8.01E-03
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	5.49E-03	0.00E+00	4.54E-02	0.00E+00	0.00E+00	2.33E-02	0.00E+00	1.72E-01	0.00E+00	2.09E-01	4.47E-02	5.00E-01	1.60E+02	3.12E-03	3.20E+02	1.56E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	9.1E-06	4.6E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.3E-04	4.6E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.1E-03	7.0E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	6

Table O-63
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	8.34E-10	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-10	1.32E-10	2.34E-10	0.00E+00	0.00E+00	1.22E-08	1.00E-06	1.22E-02	1.00E-05	1.22E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-06	8.22E-07	7.85E-06	0.00E+00	0.00E+00	3.70E-05	8.00E-01	4.63E-05	4.00E+00	9.26E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	8.00E-01	2.44E-05	4.00E+00	4.89E-06
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-06	1.31E-06	8.03E-06	0.00E+00	0.00E+00	3.83E-05	8.00E-01	4.79E-05	4.00E+00	9.59E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-09	2.00E-01	4.65E-08	1.00E+00	9.30E-09
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	4.58E+00	2.43E-08	9.16E+00	1.21E-08
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.04E-01	7.10E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-01	0.00E+00	7.81E-01	0.00E+00	0.00E+00	7.27E+01	1.93E+00	3.77E+01	1.93E+01	3.77E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	1.25E-01	2.62E-03	1.25E+00	2.62E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	6.85E-02	5.36E-05	6.85E-01	5.36E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	6.80E-02	1.55E-06	6.80E-01	1.55E-07
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	2.67E-07	1.49E-05	0.00E+00	0.00E+00	0.00E+00	3.82E-04	6.80E-02	5.61E-03	6.80E-01	5.61E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-07	6.80E-02	3.66E-06	6.80E-01	3.66E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06	6.80E-02	4.82E-05	6.80E-01	4.82E-06
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.22E+00	0.00E+00	3.22E+00	0.00E+00	0.00E+00	7.37E+00	5.10E+00	1.44E+00	1.98E+01	3.72E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	4.00E+00	4.01E-04	4.00E+01	4.01E-05
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	1.83E+01	1.29E-04	1.83E+02	1.29E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	8.28E-01	9.22E-01	9.22E-01	0.00E+00	3.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	2.68E-03	1.43E-02	0.00E+00	0.00E+00	3.49E-02	1.00E+00	3.49E-02	1.00E+01	3.49E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-08	4.58E+00	1.21E-08	9.16E+00	6.05E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-02	2.74E+03	1.55E-05	2.74E+04	1.55E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	3.28E+00	1.84E-04	1.31E+01	4.59E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-08	4.58E+00	1.60E-08	9.16E+00	7.99E-09
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	4.15E-01	1.49E-01	1.49E-01	1.38E-03	8.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-01	3.13E-02	1.74E-01	0.00E+00	0.00E+00	4.67E-01	1.17E+01	3.99E-02	1.51E+01	3.09E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	2.23E-06	1.62E-04	0.00E+00	0.00E+00	0.00E+00	3.47E-04	2.00E-02	1.74E-02	2.00E-01	1.74E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-08	9.20E+02	8.39E-07	9.20E+01	8.39E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-08	8.00E-02	3.81E-07	2.90E-01	1.05E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.05E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	3.92E-02	1.33E-02	1.33E-02	7.54E-04	5.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-02	3.53E-02	9.91E-02	0.00E+00	0.00E+00	7.62E-01	8.00E+00	9.53E-02	8.00E+01	9.53E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-01	8.80E+01	8.10E-03	2.84E+02	2.51E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	5.88E-04	NA	0.00E+00	0.00E+00	5.88E-04	1.32E+01	4.45E-05	3.96E+01	1.48E-05
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	6.78E-01			0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	NA	5.92E-03	NA	5.92E-03	0.00E+00	0.00E+00	1.37E-02	3.20E-02	4.27E-01	1.60E-01	8.54E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-08	7.00E-02	1.23E-06	7.00E-01	1.23E-07
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	NA	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.47E-03	NA	0.00E+00	0.00E+00	3.47E-03	4.00E+01	8.67E-05	8.00E+01	4.33E-05
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-02	5.07E+02	1.70E-04	1.13E+03	7.61E-05
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								7.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-03	5.07E+02	1.55E-05	1.13E+03	6.98E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-08	4.58E+00	7.42E-09	9.16E+00	3.71E-09
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07	2.40E-01	9.03E-07	2.40E+00	9.03E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	2.40E-01	9.11E-04	2.40E+00	9.11E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02	8.50E+00	4.54E-03	2.55E+01	1.51E-03
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	5.20E-01	1.95E-01	1.95E-01	3.63E-04	8.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-02	1.40E-03	2.21E-02	0.00E+00	0.00E+00	5.49E-02	2.00E-01	2.75E-01	3.30E-01	1.66E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	1.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-02	0.00E+00	1.49E-02	0.00E+00	0.00E+00	4.82E-02	1.90E+01	2.53E-03	5.70E+01	8.45E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02	2.63E+02	1.39E-04	7.89E+02	4.64E-05
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.38E+00	4.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-02	5.90E-01	6.99E-02	0.00E+00	0.00E+00	2.16E+00	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.65E-04	4.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-03	7.40E-03	6.76E-01	7.40E-02	6.76E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-08	4.58E+00	1.96E-08	9.16E+00	9.80E-09
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	2.10E-01	2.14E-03	2.10E+00	2.14E-04
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	6.57E-01	4.51E-01	4.51E-01	8.52E-03	6.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E+00	3.49E-01	2.04E+00	0.00E+00	0.00E+00	5.09E+00	1.60

Table O-64
Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.80E-10	8.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-10	9.04E-11	1.62E-10	0.00E+00	0.00E+00	0.00E+00	9.85E-09	1.00E-06	9.85E-03	1.00E-05	9.85E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	1.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-06	1.64E-07	2.36E-06	0.00E+00	0.00E+00	0.00E+00	2.25E-05	8.00E-01	2.82E-05	4.00E+00	5.63E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-06	8.00E-01	3.87E-06	4.00E+00	7.73E-07
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-06	2.19E-07	2.41E-06	0.00E+00	0.00E+00	0.00E+00	2.31E-05	8.00E-01	2.88E-05	4.00E+00	5.76E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-09	2.00E-01	3.14E-08	1.00E+00	6.27E-09
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-08	4.58E+00	4.71E-09	9.16E+00	2.35E-09
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.68E-01	6.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	0.00E+00	4.44E-01	0.00E+00	0.00E+00	0.00E+00	6.29E+01	1.93E+00	3.26E+01	1.93E+01	3.26E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	1.25E-01	1.11E-03	1.25E+00	1.11E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07	6.85E-02	2.29E-06	6.85E-01	2.29E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-08	6.80E-02	1.09E-06	6.80E-01	1.09E-07
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-06	8.70E-08	4.96E-06	0.00E+00	0.00E+00	0.00E+00	3.00E-04	6.80E-02	4.41E-03	6.80E-01	4.41E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-08	6.80E-02	2.82E-07	6.80E-01	2.82E-08
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06	6.80E-02	4.50E-05	6.80E-01	4.50E-06
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	8.14E-01	0.00E+00	0.00E+00	0.00E+00	NA	2.84E+00	0.00E+00	2.84E+00	0.00E+00	0.00E+00	6.50E+00	5.10E+00	1.28E+00	1.98E+01	3.28E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	4.00E+00	3.01E-04	4.00E+01	3.01E-05
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	1.83E+01	7.56E-05	1.83E+02	7.58E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	8.58E-01	6.72E-01	6.72E-01	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	2.35E-03	1.37E-02	0.00E+00	0.00E+00	0.00E+00	3.31E-02	1.00E+00	3.31E-02	1.00E+01	3.31E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-08	4.58E+00	2.58E-09	9.16E+00	1.29E-09
Chromium (trivalent)	0.00E+00	mg/L	1.09E+01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	2.74E+03	1.19E-06	2.74E+04	1.19E-07
Chromium (hexavalent)	0.00E+00	mg/L	1.54E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	3.28E+00	1.41E-05	1.31E+01	3.53E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-08	4.58E+00	3.17E-09	9.16E+00	1.58E-09
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	4.57E-01	8.97E-02	8.97E-02	1.19E-03	7.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-01	2.98E-02	1.63E-01	0.00E+00	0.00E+00	0.00E+00	4.32E-01	1.17E+01	3.70E-02	1.51E+01	2.86E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-06	3.03E-08	2.04E-06	0.00E+00	0.00E+00	0.00E+00	2.18E-05	2.00E-02	1.09E-03	2.00E-01	1.09E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-08	9.20E-02	5.20E-07	9.20E-01	5.20E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-08	8.00E-02	2.81E-07	2.90E-01	7.76E-08
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	4.37E-02	1.16E-02	1.16E-02	6.08E-04	4.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-02	2.99E-02	8.62E-02	0.00E+00	0.00E+00	0.00E+00	6.15E-01	8.00E+00	7.68E-02	8.00E+01	7.68E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-01	8.80E+01	5.70E-03	2.84E+02	1.77E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	5.58E-04	NA	0.00E+00	0.00E+00	0.00E+00	5.58E-04	1.32E+01	4.23E-05	3.96E+01	1.41E-05
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	7.56E-01			0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	NA	5.21E-03	NA	5.21E-03	0.00E+00	0.00E+00	1.19E-02	3.20E-02	3.71E-01	1.60E-01	7.41E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-09	7.00E-02	1.04E-07	7.00E-01	1.04E-08
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	NA	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.19E-03	NA	0.00E+00	0.00E+00	0.00E+00	3.19E-03	4.00E+01	7.97E-05	8.00E+01	3.99E-05
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-02	5.07E+02	9.01E-05	1.13E+03	4.04E-05
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03	5.07E+02	1.18E-05	1.13E+03	5.31E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-08	4.58E+00	7.19E-09	9.16E+00	3.60E-09
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	2.40E-01	4.71E-07	2.40E+00	4.71E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-05	2.40E-01	3.22E-04	2.40E+00	3.22E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02	8.50E+00	2.12E-03	2.55E+01	7.07E-04
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	5.12E-01	1.51E-01	1.51E-01	3.13E-04	7.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-02	1.26E-03	1.86E-02	0.00E+00	0.00E+00	0.00E+00	4.64E-02	2.00E-01	2.32E-01	3.30E-01	1.41E-01
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	1.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.47E-04	0.00E+00	9.47E-04	0.00E+00	0.00E+00	0.00E+00	1.60E-02	1.90E+01	8.43E-04	5.70E+01	2.81E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	2.63E+02	7.61E-05	7.89E+02	2.54E-05
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.07E+00	3.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-02	2.00E-01	3.18E-02	0.00E+00	0.00E+00	0.00E+00	1.37E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							9.73E-05	4.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03	7.40E-03	5.93E-01	7.40E-02	5.93E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-08	4.58E+00	3.77E-09	9.16E+00	1.89E-09
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	2.10E-01	1.82E-03	2.10E+00	1.82E-04
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	7.15E-01	1.84E-01	1.84E-01	6.31E-03	5.37E-01	0.00E+00	0.00

Table O-65
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.35E-10	3.25E-10	0.00E+00	2.11E-05	2.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-10	2.11E-05	1.00E-06	2.11E+01	1.00E-05	2.11E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	6.20E-07	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-06	2.91E-06	8.00E-01	3.64E-06	4.00E+00	7.29E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06	3.43E-06	8.00E-01	4.28E-06	4.00E+00	8.56E-07
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	6.34E-07	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-06	7.70E-06	8.00E-01	9.62E-06	4.00E+00	1.92E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-07	1.73E-07	2.00E-01	8.64E-07	1.00E+00	1.73E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-07	3.48E-07	4.58E+00	7.59E-08	9.16E+00	3.79E-08
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.73E-02	2.14E+00	0.00E+00	1.30E-01	3.71E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E+01	1.93E+00	2.04E+01	1.93E+01	2.04E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	8.48E-05	1.25E-01	6.79E-04	1.25E+00	6.79E-05
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-06	2.83E-06	6.85E-02	4.14E-05	6.85E-01	4.14E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	1.31E-06	6.80E-02	1.93E-05	6.90E-01	1.90E-06
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	8.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	9.09E-04	6.80E-02	1.34E-02	6.90E-01	1.32E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	1.15E-05	6.80E-02	1.69E-04	6.90E-01	1.66E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-07	7.85E-07	6.80E-02	1.15E-05	6.90E-01	1.14E-06
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.79E-02	0.00E+00	0.00E+00	4.82E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-01	5.10E+00	1.00E-01	1.98E+01	2.58E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	6.28E-05	4.00E+00	1.57E-05	4.00E+01	1.57E-06
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	6.64E-04	0.00E+00	0.00E+00	5.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-01	1.83E+01	2.96E-02	1.83E+02	2.97E-03
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	1.09E-04	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	3.75E-03	1.00E+00	3.75E-03	1.00E+01	3.75E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-07	1.73E-07	4.58E+00	3.78E-08	9.16E+00	1.89E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03	3.22E-03	2.74E+03	1.18E-06	2.74E+04	1.18E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-05	4.58E-05	3.28E+00	1.40E-05	1.31E+01	3.48E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-07	2.29E-07	4.58E+00	4.99E-08	9.16E+00	2.50E-08
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	3.87E-04	2.64E-03	0.00E+00	1.21E+00	5.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-04	1.27E+00	1.17E+01	1.08E-01	1.51E+01	8.36E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	6.25E-07	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-07	1.47E-05	2.00E-02	7.36E-04	2.00E-01	7.36E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-07	2.68E-07	9.20E-02	2.92E-06	9.20E-01	2.92E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-07	2.04E-07	8.00E-02	2.54E-06	2.90E-01	7.02E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	8.59E-02	0.00E+00	0.00E+00	4.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-02	4.54E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.12E-04	1.60E-02	0.00E+00	1.68E-01	1.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	2.01E-01	8.00E+00	2.52E-02	8.00E+01	2.52E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.46E-03	0.00E+00	0.00E+00	7.88E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03	7.89E+00	8.80E+01	8.97E-02	2.84E+02	2.78E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	4.91E-06	1.00E+00	4.91E-06	3.00E+00	1.64E-06
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	5.51E-05	0.00E+00	0.00E+00	1.59E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.14E-04	1.50E-02	1.43E-02	2.50E-02	8.57E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-07	3.15E-07	7.00E-02	4.50E-06	7.00E-01	4.50E-07
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.76E-04	5.76E-04	4.00E+01	1.44E-05	8.00E+01	7.19E-06
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.42E-02	0.00E+00	0.00E+00	1.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+01	5.07E+02	2.70E-02	1.13E+03	1.21E-02
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.22E-03	0.00E+00	0.00E+00	1.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	5.07E+02	2.47E-03	1.13E+03	1.11E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-07	1.62E-07	4.58E+00	3.55E-08	9.16E+00	1.77E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-07	8.16E-07	2.40E-01	3.40E-06	2.40E+00	3.40E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	3.90E-04	2.40E-01	1.63E-03	2.40E+00	1.63E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	3.73E-05	8.50E+00	4.39E-06	2.55E+01	1.46E-06
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	1.02E-04	2.69E-04	0.00E+00	1.11E-02	4.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-05	1.61E-02	2.00E-01	8.07E-02	3.30E-01	4.89E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	5.54E-04	0.00E+00	0.00E+00	9.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	1.90E+01	5.34E-04	5.70E+01	1.78E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03	1.90E-03	2.63E+02	7.23E-06	7.89E+02	2.41E-06
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.89E-01	1.26E-03	0.00E+00	2.19E+02	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-02	2.20E+02	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							4.65E-05	1.46E-04	0.00E+00	3.90E-01	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-01	7.40E-03	5.31E+01	7.40E-02	5.31E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-07	2.80E-07	4.58E+00	6.12E-08	9.16E+00	3.06E-08
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	7.28E-05	2.10E-01	3.47E-04	2.10E+00	3.47E-05
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	2.40E-03	1.96E-02	0.00E+00	6.33E+00	5.67E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-02	6.94E+00	1.60E+02	4.34E-02	3.20E+02	2.17E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
**Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxych

Table O-66
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.41E-10	1.95E-10	0.00E+00	1.72E-06	3.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-11	1.72E-06	1.00E-06	1.72E+00	1.00E-05	1.72E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	3.93E-07	0.00E+00	0.00E+00	6.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-07	1.44E-06	8.00E-01	1.80E-06	4.00E+00	3.61E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-06	1.73E-06	8.00E-01	2.16E-06	4.00E+00	4.32E-07
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	4.02E-07	0.00E+00	0.00E+00	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-07	3.56E-06	8.00E-01	4.45E-06	4.00E+00	8.89E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-08	9.13E-08	2.00E-01	4.56E-07	1.00E+00	9.13E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-07	1.63E-07	4.58E+00	3.57E-08	9.16E+00	1.78E-08
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.49E-02	1.38E+00	0.00E+00	7.92E-02	2.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E+01	1.93E+00	1.32E+01	1.93E+01	1.32E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	3.34E-05	1.25E-01	2.67E-04	1.25E+00	2.67E-05
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06	1.32E-06	6.85E-02	1.93E-05	6.85E-01	1.93E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-07	6.26E-07	6.80E-02	9.21E-06	6.90E-01	9.08E-07
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	6.46E-06	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-07	1.23E-04	6.80E-02	1.82E-03	6.90E-01	1.79E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-06	4.02E-06	6.80E-02	5.91E-05	6.90E-01	5.83E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-07	4.11E-07	6.80E-02	6.04E-06	6.90E-01	5.95E-07
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.82E-02	0.00E+00	0.00E+00	3.14E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-01	5.10E+00	6.52E-02	1.98E+01	1.68E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-05	2.64E-05	4.00E+00	6.61E-06	4.00E+01	6.61E-07
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	2.88E-04	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	1.83E+01	5.94E-03	1.83E+02	5.95E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	7.44E-05	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	3.66E-04	1.00E+00	3.66E-04	1.00E+01	3.66E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-08	8.97E-08	4.58E+00	1.96E-08	9.16E+00	9.79E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-04	5.44E-04	2.74E+03	1.99E-07	2.74E+04	1.99E-08
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06	7.72E-06	3.28E+00	2.35E-06	1.31E+01	5.88E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07	1.10E-07	4.58E+00	2.40E-08	9.16E+00	1.20E-08
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	2.47E-04	1.67E-03	0.00E+00	1.45E-01	9.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-04	1.57E-01	1.17E+01	1.34E-02	1.51E+01	1.04E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	3.95E-07	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-08	9.30E-06	2.00E-02	4.65E-04	2.00E-01	4.65E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-07	1.71E-07	9.20E-02	1.86E-06	9.20E-01	1.86E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-07	1.00E-07	8.00E-02	1.25E-06	2.90E-01	3.45E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	5.41E-02	0.00E+00	0.00E+00	7.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-03	7.20E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.26E-04	9.18E-03	0.00E+00	2.98E-02	7.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-04	4.80E-02	8.00E+00	6.00E-03	8.00E+01	6.00E-04
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.28E-03	0.00E+00	0.00E+00	5.64E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-03	5.72E-01	8.80E+01	6.50E-03	2.84E+02	2.01E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.92E-06	2.92E-06	1.00E+00	2.92E-06	3.00E+00	9.74E-07
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	3.21E-05	0.00E+00	0.00E+00	9.26E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.25E-04	1.50E-02	8.31E-03	2.50E-02	4.99E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-07	1.50E-07	7.00E-02	2.14E-06	7.00E-01	2.14E-07
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.27E-04	3.27E-04	4.00E+01	8.18E-06	8.00E+01	4.09E-06
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.48E-03	0.00E+00	0.00E+00	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+00	5.07E+02	2.99E-03	1.13E+03	1.34E-03
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.25E-03	0.00E+00	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-01	5.07E+02	3.93E-04	1.13E+03	1.76E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-08	8.84E-08	4.58E+00	1.93E-08	9.16E+00	9.65E-09
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-07	2.91E-07	2.40E-01	1.21E-06	2.40E+00	1.21E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	1.28E-04	2.40E-01	5.35E-04	2.40E+00	5.35E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.04E-06	5.04E-06	8.50E+00	5.93E-07	2.55E+01	1.98E-07
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	6.51E-05	1.69E-04	0.00E+00	7.04E-03	2.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	1.02E-02	2.00E-01	5.12E-02	3.30E-01	3.10E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	3.15E-04	0.00E+00	0.00E+00	5.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03	1.90E+01	3.03E-04	5.70E+01	1.01E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04	8.51E-04	2.63E+02	3.23E-06	7.89E+02	1.08E-06
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.22E-01	7.05E-04	0.00E+00	3.53E+01	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-03	3.55E+01	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.02E-05	9.56E-05	0.00E+00	8.00E-04	1.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	7.40E-03	3.47E-01	7.40E-02	3.47E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-07	1.31E-07	4.58E+00	2.86E-08	9.16E+00	1.43E-08
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-05	4.69E-05	2.10E-01	2.24E-04	2.10E+00	2.24E-05
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	1.31E-03	1.20E-02	0.00E+00	2.01E+00	8.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-03	2.12E+00	1.60E+02	1.33E-02	3.20E+02	6.63E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.3E-07	6.4E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.4E-06	1.7E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-03	1.9E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	5.9E-03	6.0E-04
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Table O-67
Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-09	1.00E-06	2.70E-03	1.00E-05	2.70E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	8.00E-01	1.05E-05	4.00E+00	2.10E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	8.00E-01	2.49E-04	4.00E+00	4.99E-05
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	8.00E-01	1.67E-05	4.00E+00	3.34E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-08	2.00E-01	4.75E-07	1.00E+00	9.49E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-06	4.58E+00	2.48E-07	9.16E+00	1.24E-07
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	3.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-01	1.93E+00	1.72E-01	1.93E+01	1.72E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	1.25E-01	2.67E-02	1.25E+00	2.67E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	6.85E-02	5.47E-04	6.85E-01	5.47E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06	6.80E-02	1.58E-05	6.80E-01	1.58E-06
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	6.80E-02	4.00E-05	6.80E-01	4.00E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-06	6.80E-02	3.74E-05	6.80E-01	3.74E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	6.80E-02	4.92E-04	6.80E-01	4.92E-05
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	4.00E+00	4.09E-03	4.00E+01	4.09E-04
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03	1.83E+01	2.09E-04	1.83E+02	2.09E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-02	1.00E+00	2.74E-02	1.00E+01	2.74E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-07	4.58E+00	1.24E-07	9.16E+00	6.18E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-01	2.74E+03	1.58E-04	2.74E+04	1.58E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03	3.28E+00	1.88E-03	1.31E+01	4.69E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-07	4.58E+00	1.63E-07	9.16E+00	8.16E-08
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-01	1.17E+01	2.75E-02	1.51E+01	2.13E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	2.00E-02	1.14E-03	2.00E-01	1.14E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-07	9.20E-02	8.56E-06	9.20E-01	8.56E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-07	8.00E-02	3.89E-06	2.90E-01	1.07E-06
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.96E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-01	8.00E+00	4.52E-02	8.00E+01	4.52E-03
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E+00	8.80E+01	8.01E-02	2.84E+02	2.48E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-03	1.32E+01	4.55E-04	3.96E+01	1.52E-04
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-07	7.00E-02	1.25E-05	7.00E-01	1.25E-06
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-02	4.00E+01	8.84E-04	8.00E+01	4.42E-04
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-01	5.07E+02	2.76E-04	1.13E+03	1.24E-04
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-02	5.07E+02	2.53E-05	1.13E+03	1.13E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-07	4.58E+00	7.57E-08	9.16E+00	3.78E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-06	2.40E-01	9.22E-06	2.40E+00	9.22E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	2.40E-01	9.29E-03	2.40E+00	9.29E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	8.50E+00	4.63E-02	2.55E+01	1.54E-02
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-02	2.00E-01	7.45E-02	3.30E-01	4.52E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-01	2.63E+02	1.42E-03	7.89E+02	4.74E-04
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E+00	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	7.40E-03	3.63E-02	7.40E-02	3.63E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-07	4.58E+00	2.00E-07	9.16E+00	1.00E-07
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	2.10E-01	2.19E-02	2.10E+00	2.19E-03
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	1.39E

Table O-68
Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	9.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-09	1.00E-06	1.66E-03	1.00E-05	1.66E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	1.37E-06	8.00E-01	1.72E-06	4.00E+00	3.43E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	2.58E-05	8.00E-01	3.23E-05	4.00E+00	6.46E-06
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-06	0.00E+00	0.00E+00	0.00E+00	1.83E-06	8.00E-01	2.29E-06	4.00E+00	4.58E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-08	0.00E+00	0.00E+00	0.00E+00	5.24E-08	2.00E-01	2.62E-07	1.00E+00	5.24E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-07	0.00E+00	0.00E+00	0.00E+00	1.80E-07	4.58E+00	3.93E-08	9.16E+00	1.97E-08
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.24E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-01	1.93E+00	1.16E-01	1.93E+01	1.16E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	1.15E-03	1.25E-01	9.24E-03	1.25E+00	9.24E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	1.31E-06	6.85E-02	1.91E-05	6.85E-01	1.91E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-07	0.00E+00	0.00E+00	0.00E+00	6.21E-07	6.80E-02	9.13E-06	6.80E-01	9.13E-07
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-07	0.00E+00	0.00E+00	0.00E+00	7.27E-07	6.80E-02	1.07E-05	6.80E-01	1.07E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	1.60E-07	6.80E-02	2.36E-06	6.80E-01	2.36E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	2.55E-05	6.80E-02	3.76E-04	6.80E-01	3.76E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	1.00E-02	4.00E+00	2.51E-03	4.00E+01	2.51E-04
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	1.83E+01	1.01E-04	1.83E+02	1.01E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02	0.00E+00	0.00E+00	0.00E+00	1.96E-02	1.00E+00	1.96E-02	1.00E+01	1.96E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-08	0.00E+00	0.00E+00	0.00E+00	9.89E-08	4.58E+00	2.16E-08	9.16E+00	1.08E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	0.00E+00	0.00E+00	0.00E+00	2.73E-02	2.74E+03	9.97E-06	2.74E+04	9.97E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	3.88E-04	3.28E+00	1.18E-04	1.31E+01	2.95E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.21E-07	4.58E+00	2.65E-08	9.16E+00	1.32E-08
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-01	0.00E+00	0.00E+00	0.00E+00	2.50E-01	1.17E+01	2.14E-02	1.51E+01	1.65E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-07	0.00E+00	0.00E+00	0.00E+00	2.53E-07	2.00E-02	1.26E-05	2.00E-01	1.26E-06
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-07	0.00E+00	0.00E+00	0.00E+00	3.99E-07	9.20E-02	4.34E-06	9.20E-01	4.34E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	1.88E-07	8.00E-02	2.35E-06	2.90E-01	6.48E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	2.58E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	8.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-01	0.00E+00	0.00E+00	0.00E+00	2.51E-01	8.00E+00	3.13E-02	8.00E+01	3.13E-03
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E+00	0.00E+00	0.00E+00	0.00E+00	4.04E+00	8.80E+01	4.59E-02	2.84E+02	1.42E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	4.66E-03	0.00E+00	0.00E+00	0.00E+00	4.66E-03	1.32E+01	3.53E-04	3.96E+01	1.18E-04
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-08	0.00E+00	0.00E+00	0.00E+00	6.08E-08	7.00E-02	8.68E-07	7.00E-01	8.68E-08
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.66E-02	0.00E+00	0.00E+00	0.00E+00	2.66E-02	4.00E+01	6.66E-04	8.00E+01	3.33E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-02	5.07E+02	1.20E-04	1.13E+03	5.38E-05
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								7.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-03	5.07E+02	1.58E-05	1.13E+03	7.07E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-07	0.00E+00	0.00E+00	0.00E+00	2.75E-07	4.58E+00	6.01E-08	9.16E+00	3.01E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-07	0.00E+00	0.00E+00	0.00E+00	9.43E-07	2.40E-01	3.93E-06	2.40E+00	3.93E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	6.45E-04	2.40E-01	2.69E-03	2.40E+00	2.69E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.51E-01	0.00E+00	0.00E+00	0.00E+00	1.51E-01	8.50E+00	1.77E-02	2.55E+01	5.91E-03
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	1.09E-02	2.00E-01	5.46E-02	3.30E-01	3.31E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.63E+02	6.35E-04	7.89E+02	2.12E-04
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	3.10E+00	NA	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	7.40E-03	1.75E-02	7.40E-02	1.75E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-07	4.58E+00	3.15E-08	9.16E+00	1.58E-08
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	3.19E-03	2.10E-01	1.52E-02	2.10E+00	1.52E-03
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	8.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E+00	0.00E+00	0.00E+00	0.00E+00	2.61E+00	1.60E+02	1.63E-02	3.20E+02	8.14E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-07	8.9E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.6E-05	7.3E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.2E-04	4.2E-05
**Phthalates (bis-2ethylhexyl and butylbenz

Table O-69
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.72E-10	2.48E-10	0.00E+00	2.55E-06	5.43E-09	0.00E+00	7.89E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-06	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	4.72E-07	0.00E+00	0.00E+00	1.99E-07	0.00E+00	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-07	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	4.83E-07	0.00E+00	0.00E+00	8.12E-07	0.00E+00	2.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.19E-02	1.63E+00	0.00E+00	1.58E-02	7.36E+00	0.00E+00	2.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00		4.50E+00	1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	8.10E-06	0.00E+00	0.00E+00	1.77E-04	0.00E+00	5.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.12E-02	0.00E+00	0.00E+00	9.57E-02	NA	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	4.85E-04	0.00E+00	0.00E+00	6.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-02	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	8.28E-01	9.22E-01	9.22E-01	0.00E+00	8.32E-05	0.00E+00	0.00E+00	6.66E-04	0.00E+00	4.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	4.15E-01	1.49E-01	1.49E-01	2.83E-04	2.01E-03	0.00E+00	1.47E-01	1.06E-02	0.00E+00	5.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-01	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	4.76E-07	0.00E+00	0.00E+00	2.76E-06	0.00E+00	5.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-06	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.29E-02	0.00E+00	0.00E+00	5.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	3.92E-02	1.33E-02	1.33E-02	1.55E-04	1.22E-02	0.00E+00	2.04E-02	3.01E-03	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-02	NA	NA	NA	NA
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	5.46E-03	0.00E+00	0.00E+00	9.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-01	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	6.78E-01			0.00E+00	4.20E-05	0.00E+00	0.00E+00	3.15E-05	NA	2.00E-04	NA	0.00E+00	0.00E+00	0.00E+00	2.73E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	NA	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.77E-02	0.00E+00	0.00E+00	1.65E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+00	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.62E-03	0.00E+00	0.00E+00	1.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	5.20E-01	1.95E-01	1.95E-01	7.48E-05	2.05E-04	0.00E+00	1.34E-03	9.23E-04	0.00E+00	7.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	4.22E-04	0.00E+00	0.00E+00	1.90E-03	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-03	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.85E-01	9.61E-04	0.00E+00	2.66E+01	2.02E-03	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							3.40E-05	1.11E-04	0.00E+00	4.73E-02	5.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-02	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	6.57E-01	4.51E-01	4.51E-01	1.76E-03	1.49E-02	0.00E+00	7.67E-01	1.13E-01	0.00E+00	6.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-01	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.5930505	acres
Water intake rate =	0.112	L/d
Site Area =	246	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

MARC No. W912QR-04-D-0027, TO No. DS02
Longhorn Army Ammunition Plant, Karnack, Texas

Page 1 of 1

Sha

Table O-70
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.40E-10	2.02E-10	0.00E+00	2.82E-07	9.43E-10	0.00E+00	5.47E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-07	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	4.06E-07	0.00E+00	0.00E+00	1.71E-07	0.00E+00	7.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-07	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	4.15E-07	0.00E+00	0.00E+00	6.97E-07	0.00E+00	8.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-06	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.46E-02	1.43E+00	0.00E+00	1.30E-02	6.42E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	6.67E-06	0.00E+00	0.00E+00	3.12E-05	0.00E+00	1.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.87E-02	0.00E+00	0.00E+00	8.44E-02	NA	9.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	2.86E-04	0.00E+00	0.00E+00	1.78E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-02	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	8.58E-01	6.72E-01	6.72E-01	0.00E+00	7.68E-05	0.00E+00	0.00E+00	4.61E-05	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-04	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	4.57E-01	8.97E-02	8.97E-02	2.45E-04	1.72E-03	0.00E+00	2.38E-02	2.69E-03	0.00E+00	5.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-02	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	4.08E-07	0.00E+00	0.00E+00	2.37E-06	0.00E+00	6.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-06	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	5.37E-02	0.00E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	4.37E-02	1.16E-02	1.16E-02	1.25E-04	9.48E-03	0.00E+00	4.90E-03	2.14E-03	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02	NA	NA	NA	NA
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.24E-03	0.00E+00	0.00E+00	9.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-02	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	7.56E-01			0.00E+00	3.31E-05	0.00E+00	0.00E+00	2.49E-05	NA	1.76E-04	NA	0.00E+00	0.00E+00	0.00E+00	2.34E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	NA	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.41E-03	0.00E+00	0.00E+00	2.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-01	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.24E-03	0.00E+00	0.00E+00	3.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	5.12E-01	1.51E-01	1.51E-01	6.45E-05	1.75E-04	0.00E+00	1.16E-03	7.88E-04	0.00E+00	6.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	3.25E-04	0.00E+00	0.00E+00	1.47E-03	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.20E-01	7.28E-04	0.00E+00	5.79E+00	3.06E-04	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.00E-05	9.88E-05	0.00E+00	1.31E-04	4.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	7.15E-01	1.84E-01	1.84E-01	1.30E-03	1.24E-02	0.00E+00	3.31E-01	2.39E-02	0.00E+00	6.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-01	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \; x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	11.21854	acres
Water intake rate =	0.112	L/d
Site Area =	246	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

MARC No. W912QR-04-D-0027, TO No. DS02
Longhorn Army Ammunition Plant, Karnack, Texas

Page 1 of 1

Shaw Project No. 117591
11/

Table O-71
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.06E-09	3.67E-09	0.00E+00	0.00E+00	1.45E-06	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-06	1.40E-05	1.34E-01	1.40E-04	1.34E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	5.31E-05	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	2.80E-03	5.82E-02	2.80E-02	5.82E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	5.80E-02	5.47E-03	5.80E-01	5.47E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	7.16E-06	0.00E+00	0.00E+00	2.17E-04	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	2.80E-03	1.41E-01	2.80E-02	1.41E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	2.14E+00	1.31E-05	1.07E+01	2.62E-06
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.03E-01	2.42E+01	0.00E+00	0.00E+00	1.97E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E+03	1.10E+02	1.82E+01	3.29E+02	6.06E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	4.10E-01	5.59E-04	1.23E+00	1.86E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	1.80E-01	5.89E-04	1.80E+00	5.89E-05
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	4.75E-02	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-02	1.80E-01	2.66E-01	1.80E+00	2.66E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	1.80E-01	3.34E-03	1.80E+00	3.34E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	1.80E-01	3.13E-04	1.80E+00	3.13E-05
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.15E-01	0.00E+00	0.00E+00	2.56E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E+01	2.08E+01	1.25E+00	4.17E+01	6.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	5.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-03	1.11E+00	5.24E-03	3.33E+00	1.75E-03
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	1.23E-03	0.00E+00	0.00E+00	1.78E-01	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-01	1.45E+00	1.27E-01	2.00E+01	9.22E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	2.14E+00	6.53E-06	1.07E+01	1.31E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	1.00E+00	1.10E-03	5.00E+00	2.20E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	2.14E+00	8.62E-06	1.07E+01	1.72E-06
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	3.40E-03	2.98E-02	0.00E+00	0.00E+00	2.83E+00	4.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E+00	4.70E+01	6.18E-02	6.17E+01	4.71E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	7.39E-04	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04	7.70E-02	9.87E-03	2.31E-01	3.29E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	3.00E-01	6.62E-05	9.00E-01	2.21E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	7.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.86E-03	1.80E-01	0.00E+00	0.00E+00	8.07E-01	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	1.13E+00	8.89E-01	1.13E+01	8.89E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	6.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E+02	1.07E-03	9.77E+03	1.07E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	4.50E-01	4.48E-03	9.00E-01	2.24E-03
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	6.23E-04	0.00E+00	0.00E+00	8.44E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.06E-03	6.40E-03	1.42E+00	6.40E-02	1.42E-01
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-01	7.74E+01	2.05E-03	1.07E+02	1.48E-03
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-01	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	2.14E+00	5.94E-06	1.07E+01	1.19E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	6.73E+00	9.41E-06	6.73E+01	9.41E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	6.73E+00	4.41E-03	6.73E+01	4.41E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	6.50E+01	2.32E-05	1.30E+02	1.16E-05
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	8.96E-04	3.04E-03	0.00E+00	0.00E+00	2.47E-01	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-01	1.80E+00	1.41E-01	5.40E+00	4.69E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	6.26E-03	0.00E+00	0.00E+00	5.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-01	5.44E+00	9.47E-02	5.44E+01	9.47E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.41E+00	1.42E-02	0.00E+00	0.00E+00	5.41E-01	1.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E+00	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							4.08E-04	1.65E-03	0.00E+00	0.00E+00	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	3.50E-01	3.90E-01	1.05E+00	1.30E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	2.14E+00	1.06E-05	1.07E+01	2.11E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03	1.14E+01	5.60E-04	3.42E+01	1.87E-04
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	2.10E-02	2.21E-01	0.00E+00	0.00E+00	3.01E+01	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E+01	1.45E+01	2.10E+00	1.31E+02	2.33E-01

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.5E-05	8.9E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-01	2.0E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.7E-01	2.7E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	5.2E-03	1.7E-03
Aldrin/Dieldrin/Endrin EEQ:	9.9E-03	3.3E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BC

Table O-72
Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.68E-09	2.99E-09	0.00E+00	0.00E+00	2.52E-07	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-07	1.40E-05	3.02E-02	1.40E-04	3.02E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	6.02E-06	0.00E+00	0.00E+00	4.57E-05	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-05	2.80E-03	3.06E-02	2.80E-02	3.06E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	5.80E-02	2.27E-03	5.80E-01	2.27E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	6.15E-06	0.00E+00	0.00E+00	1.87E-04	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	2.80E-03	8.56E-02	2.80E-02	8.56E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	2.14E+00	6.33E-06	1.07E+01	1.27E-06
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.15E-01	2.11E+01	0.00E+00	0.00E+00	1.72E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E+03	1.10E+02	1.59E+01	3.29E+02	5.29E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	4.10E-01	2.68E-04	1.23E+00	8.94E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	1.80E-01	2.89E-04	1.80E+00	2.89E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	9.89E-05	0.00E+00	0.00E+00	8.34E-03	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-03	1.80E-01	4.77E-02	1.80E+00	4.77E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	1.80E-01	1.05E-03	1.80E+00	1.05E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	1.80E-01	1.68E-04	1.80E+00	1.68E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0.00E+00	2.26E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+01	2.08E+01	1.10E+00	4.17E+01	5.49E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	1.11E+00	3.08E-03	3.33E+00	1.03E-03
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	1.14E-03	0.00E+00	0.00E+00	1.23E-02	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-02	1.45E+00	1.25E-02	2.00E+01	9.08E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	2.14E+00	3.47E-06	1.07E+01	6.94E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	1.00E+00	9.90E-04	5.00E+00	1.98E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	2.14E+00	4.26E-06	1.07E+01	8.51E-07
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	2.94E-03	2.55E-02	0.00E+00	0.00E+00	7.19E-01	4.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-01	4.70E+01	1.69E-02	6.17E+01	1.28E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	6.05E-06	0.00E+00	0.00E+00	6.34E-04	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-04	7.70E-02	8.41E-03	2.31E-01	2.80E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	3.00E-01	3.30E-05	9.00E-01	1.10E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.50E-03	1.41E-01	0.00E+00	0.00E+00	5.73E-01	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-01	1.13E+00	6.43E-01	1.13E+01	6.43E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-01	9.77E+02	9.59E-04	9.77E+03	9.59E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	4.50E-01	4.33E-03	9.00E-01	2.17E-03
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	4.91E-04	0.00E+00	0.00E+00	6.66E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.15E-03	6.40E-03	1.12E+00	6.40E-02	1.12E-01
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-02	7.74E+01	4.11E-04	1.07E+02	2.97E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.13E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	2.14E+00	3.32E-06	1.07E+01	6.64E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	6.73E+00	1.49E-03	6.73E+01	1.49E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	6.50E+01	1.68E-06	1.30E+02	8.40E-07
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	7.73E-04	2.59E-03	0.00E+00	0.00E+00	2.11E-01	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-01	1.80E+00	1.20E-01	5.40E+00	4.01E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	4.82E-03	0.00E+00	0.00E+00	3.92E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-01	5.44E+00	7.30E-02	5.44E+01	7.30E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.64E+00	1.08E-02	0.00E+00	0.00E+00	8.19E-02	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.40E-04	1.46E-03	0.00E+00	0.00E+00	1.19E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-01	3.50E-01	3.45E-01	1.05E+00	1.15E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	2.14E+00	5.07E-06	1.07E+01	1.01E-06
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	1.14E+01	2.52E-04	3.42E+01	8.40E-05
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	1.56E-02	1.83E-01	0.00E+00	0.00E+00	6.41E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E+00	1.45E+01	4.63E-01	1.31E+02	5.13E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.2E-05		4.5E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.2E-01		1.2E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.9E-02		5.0E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	3.1E-03		1.0E-03
Aldrin/Dieldrin/Endrin EEQ:	8.4E-03		2.8E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or B

Table O-73
BERA Tier 1 COPCs EEQs and Hazard Indices for the American Woodcock at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							--Unitless--									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	8.59E-10	0.00E+00	5.07E-08	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	1.40E-05	7.77E-01	1.40E-04	7.77E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	2.80E-03	9.65E-01	2.80E-02	9.65E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	8.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-03	5.80E-02	1.44E-01	5.80E-01	1.44E-02
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	2.80E-03	1.59E+00	2.80E-02	1.59E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.40E-06	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.83E-06	0.00E+00	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	2.14E+00	3.44E-04	1.07E+01	6.88E-05
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-01	1.10E+02	1.91E-03	3.29E+02	6.37E-04
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.18E-03	0.00E+00	0.00E+00	8.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	5.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	4.10E-01	1.47E-02	1.23E+00	4.90E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	1.80E-01	1.55E-02	1.80E+00	1.55E-03
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	8.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-03	1.80E-01	4.60E-02	1.80E+00	4.60E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-02	1.80E-01	8.78E-02	1.80E+00	8.78E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	1.80E-01	8.22E-03	1.80E+00	8.22E-04
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-03	1.11E+00	2.19E-03	3.33E+00	7.29E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	4.93E-03	0.00E+00	0.00E+00	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	1.45E+00	9.51E-02	2.00E+01	6.90E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.41E-06	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	2.14E+00	1.71E-04	1.07E+01	3.43E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.57E-01	0.00E+00	0.00E+00	2.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-01	1.00E+00	1.86E-01	5.00E+00	3.72E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	2.14E+00	2.26E-04	1.07E+01	4.53E-05
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.42E-03	0.00E+00	9.54E-02	0.00E+00	0.00E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	4.70E+01	2.78E-02	6.17E+01	2.11E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	7.70E-02	4.57E-03	2.31E-01	1.52E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.53E-06	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	3.00E-01	1.74E-03	9.00E-01	5.80E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.83E-06	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.14E-01	0.00E+00	1.29E+02	0.00E+00	0.00E+00	9.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	7.76E-04	0.00E+00	2.29E+00	0.00E+00	0.00E+00	4.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.73E-02	0.00E+00	1.20E+01	0.00E+00	0.00E+00	2.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E+01	9.77E+02	3.84E-02	9.77E+03	3.84E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	5.26E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-02	4.50E-01	1.19E-01	9.00E-01	5.93E-02
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	6.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.12E-02	0.00E+00	0.00E+00	4.14E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E+00	7.74E+01	5.47E-02	1.07E+02	3.96E-02
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-02	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								8.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.26E-06	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	2.14E+00	1.56E-04	1.07E+01	3.12E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	6.73E+00	2.47E-04	6.73E+01	2.47E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.43E-03	0.00E+00	0.00E+00	7.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-01	6.73E+00	1.16E-01	6.73E+01	1.16E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.59E-03	0.00E+00	0.00E+00	3.94E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-02	6.50E+01	6.61E-04	1.30E+02	3.31E-04
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	3.74E-04	0.00E+00	5.30E-03	0.00E+00	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-02	1.80E+00	3.65E-02	5.40E+00	1.22E-02
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	4.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-01	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.42E+00	0.00E+00	2.95E+00	0.00E+00	0.00E+00	3.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E+01	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	3.50E-01	4.86E-04	1.05E+00	1.62E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.90E-06	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	2.14E+00	2.78E-04	1.07E+01	5.55E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	1.97E-01	0.00E+00	0.00E+00	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-01	1.14E+01	3.19E-02	3.42E+01	1.06E-02
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	8.78E-03	0.00E+00	7.56E-01	0.00E+00	0.00E+00	3.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E+00	1.45E+01	2.93E-01	1.31E+02	3.25E-02

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.2E-03	2.4E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.7E+00	2.7E-01
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.7E-01	2.1E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.2E-03	7.3E-04
Aldrin/Dieldrin/Endrin EEQ:	6.3E-03	2.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi\,x\,Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): [n] See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	1	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0.0025293	kg/d
Sediment ingestion rate =	0	kg/d
Food ingestion rate =	0.0243	kg/d
Body weight =	0.197	kg
Home range =	0.74	acres
Water intake rate =	0.0197	L/d
Site Area =	3217	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-74
BERA Tier 2 COPCs
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	7.00E-10	0.00E+00	4.09E-08	0.00E+00	0.00E+00	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-06	1.40E-05	3.12E-01	1.40E-04	3.12E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-04	2.80E-03	3.19E-01	2.80E-02	3.19E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	5.80E-02	6.00E-02	5.80E-01	6.00E-03
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	2.80E-03	4.41E-01	2.80E-02	4.41E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.26E-06	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	2.14E+00	1.67E-04	1.07E+01	3.34E-05
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.73E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-01	1.10E+02	1.58E-03	3.29E+02	5.26E-04
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	6.54E-03	0.00E+00	0.00E+00	1.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	4.10E-01	7.08E-03	1.23E+00	2.36E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	1.80E-01	7.64E-03	1.80E+00	7.64E-04
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03	1.80E-01	2.15E-02	1.80E+00	2.15E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	4.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03	1.80E-01	2.77E-02	1.80E+00	2.77E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	1.80E-01	4.44E-03	1.80E+00	4.44E-04
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	4.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-02	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	1.11E+00	1.29E-03	3.33E+00	4.29E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	1.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-01	1.45E+00	8.69E-02	2.00E+01	6.30E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.22E-06	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	2.14E+00	9.17E-05	1.07E+01	1.83E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.42E-01	0.00E+00	0.00E+00	2.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	1.00E+00	1.67E-01	5.00E+00	3.35E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	2.14E+00	1.12E-04	1.07E+01	2.25E-05
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.23E-03	0.00E+00	8.38E-02	0.00E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+00	4.70E+01	2.67E-02	6.17E+01	2.04E-02
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	7.70E-02	2.45E-03	2.31E-01	8.18E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	3.00E-01	8.71E-04	9.00E-01	2.90E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.48E-06	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.68E-01	0.00E+00	1.17E+02	0.00E+00	0.00E+00	4.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	6.26E-04	0.00E+00	1.70E+00	0.00E+00	0.00E+00	3.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	1.13E+00	1.77E+00	1.13E+01	1.77E-01
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.12E-02	0.00E+00	1.07E+01	0.00E+00	0.00E+00	2.31E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E+01	9.77E+02	3.46E-02	9.77E+03	3.46E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	5.09E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-02	4.50E-01	1.15E-01	9.00E-01	5.73E-02
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.70E-06	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.16E-02	0.00E+00	0.00E+00	8.31E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-01	7.74E+01	1.18E-02	1.07E+02	8.53E-03
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-02	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								6.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	2.14E+00	8.77E-05	1.07E+01	1.75E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	6.73E+00	9.12E-05	6.73E+01	9.12E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	2.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-01	6.73E+00	3.93E-02	6.73E+01	3.93E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.89E-04	0.00E+00	0.00E+00	2.85E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	6.50E+01	5.91E-05	1.30E+02	2.95E-05
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	3.23E-04	0.00E+00	4.80E-03	0.00E+00	0.00E+00	5.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-02	1.80E+00	3.38E-02	5.40E+00	1.13E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.67E-01	0.00E+00	0.00E+00	1.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-01	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.10E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	4.81E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E+00	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	3.50E-01	2.86E-04	1.05E+00	9.54E-05
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.24E-06	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	2.14E+00	1.34E-04	1.07E+01	2.68E-05
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	1.86E-01	0.00E+00	0.00E+00	7.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-01	1.14E+01	2.29E-02	3.42E+01	7.62E-03
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	6.50E-03	0.00E+00	6.16E-01	0.00E+00	0.00E+00	2.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E+00	1.45E+01	2.39E-01	1.31E+02	2.64E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	5.9E-04	1.2E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.2E-01	8.2E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.8E-02	8.5E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.3E-03	4.3E-04
Aldrin/Dieldrin/Endrin EEQ:	3.3E-03	1.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \; x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF)

Table O-75
Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	9.28E-10	1.09E-08	0.00E+00	1.79E-04	5.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	1.40E-05	1.28E+01	1.40E-04	1.28E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	2.80E-03	1.52E-02	2.80E-02	1.52E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	2.12E-05	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	2.80E-03	3.95E-02	2.80E-02	3.95E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.27E-01	7.19E+01	0.00E+00	1.10E+00	8.10E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E+02	1.10E+02	8.05E+00	3.29E+02	2.68E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	3.56E-04	0.00E+00	0.00E+00	1.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-02	1.80E-01	1.10E-01	1.80E+00	1.10E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.34E-01	0.00E+00	0.00E+00	1.05E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+01	2.08E+01	5.51E-01	4.17E+01	2.75E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	4.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E+00	1.11E+00	4.15E+00	3.33E+00	1.38E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	3.66E-03	0.00E+00	0.00E+00	7.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-02	1.45E+00	5.30E-02	2.00E+01	3.84E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.53E-03	8.84E-02	0.00E+00	1.03E+01	1.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+01	4.70E+01	2.45E-01	6.17E+01	1.87E-01
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	7.70E-02	4.22E-03	2.31E-01	1.41E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.40E-01	0.00E+00	0.00E+00	3.85E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	8.39E-04	5.35E-01	0.00E+00	1.43E+00	3.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+00	3.85E+00	5.95E-01	1.16E+01	1.98E-01
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.95E-02	0.00E+00	0.00E+00	6.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E+01	9.77E+02	6.84E-02	9.77E+03	6.84E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	1.85E-03	0.00E+00	0.00E+00	3.47E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.32E-03	6.40E-03	8.31E-01	6.40E-02	8.31E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E+01	0.00E+00	1.07E+02	0.00E+00
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.58E-02	0.00E+00	0.00E+00	1.16E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+02	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								8.78E-03	0.00E+00	0.00E+00	1.06E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	4.04E-04	9.01E-03	0.00E+00	9.38E-02	1.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-01	4.40E-01	4.65E-01	1.50E+00	1.36E-01
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	1.86E-02	0.00E+00	0.00E+00	2.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-01	5.44E+00	4.19E-02	5.44E+01	4.19E-03
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.54E+00	4.23E-02	0.00E+00	1.86E+03	2.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E+03	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.84E-04	4.90E-03	0.00E+00	3.31E+00	5.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E+00	3.50E-01	9.62E+00	1.05E+00	3.21E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E+01	0.00E+00	3.42E+01	0.00E+00
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	9.49E-03	6.57E-01	0.00E+00	5.37E+01	1.24E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E+01	1.45E+01	4.60E+00	1.31E+02	5.10E-01

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.5E-02	5.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.1E-01	1.1E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.2E+00	1.4E+00
Aldrin/Dieldrin/Endrin EEQ:	4.2E-03	1.4E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level

Table O-76
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.00E-10	1.18E-09	0.00E+00	2.63E-06	1.38E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-06	1.40E-05	1.89E-01	1.40E-04	1.89E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	2.37E-06	0.00E+00	0.00E+00	2.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-06	2.80E-03	1.74E-03	2.80E-02	1.74E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	2.42E-06	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	2.80E-03	4.50E-03	2.80E-02	4.50E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.48E-02	8.32E+00	0.00E+00	1.21E-01	9.38E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E+02	1.10E+02	9.32E-01	3.29E+02	3.11E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	3.89E-05	0.00E+00	0.00E+00	4.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	1.80E-01	2.75E-03	1.80E+00	2.75E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.23E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E+00	2.08E+01	6.45E-02	4.17E+01	3.22E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	2.05E-04	0.00E+00	0.00E+00	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-01	1.11E+00	1.50E-01	3.33E+00	4.99E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	4.49E-04	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	1.45E+00	7.74E-04	2.00E+01	5.61E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.76E-04	1.00E-02	0.00E+00	2.21E-01	3.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-01	4.70E+01	5.76E-03	6.17E+01	4.39E-03
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	2.38E-06	0.00E+00	0.00E+00	3.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	7.70E-02	4.80E-04	2.31E-01	1.60E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.85E-02	0.00E+00	0.00E+00	1.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	8.98E-05	5.54E-02	0.00E+00	4.55E-02	3.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-01	3.85E+00	3.44E-02	1.16E+01	1.15E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.04E-03	0.00E+00	0.00E+00	8.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-01	9.77E+02	8.85E-04	9.77E+03	8.85E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	1.94E-04	0.00E+00	0.00E+00	3.63E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	6.40E-03	8.70E-02	6.40E-02	8.70E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E+01	0.00E+00	1.07E+02	0.00E+00
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.75E-03	0.00E+00	0.00E+00	2.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E+00	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.87E-04	0.00E+00	0.00E+00	3.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00	0.00E+00
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E+00	1.51E+00	4.63E-05	1.02E-03	0.00E+00	1.07E-02	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-02	4.40E-01	5.30E-02	1.50E+00	1.55E-02
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	1.90E-03	0.00E+00	0.00E+00	2.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-02	5.44E+00	4.28E-03	5.44E+01	4.28E-04
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.58E-01	4.25E-03	0.00E+00	5.38E+01	4.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E+01	NA	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.44E-05	5.77E-04	0.00E+00	1.22E-03	6.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03	3.50E-01	2.37E-02	1.05E+00	7.91E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E+01	0.00E+00	3.42E+01	0.00E+00	0.00E+00
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	9.33E-04	7.22E-02	0.00E+00	3.07E+00	3.50E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E+00	1.45E+01	2.41E-01	1.31E+02	2.67E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00		0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.2E-03		6.2E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.7E-03		2.7E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.5E-01		5.0E-02
Aldrin/Dieldrin/Endrin EEQ:	4.8E-04		1.6E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \

Table O-77
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.59E-09	mg/L	1.56E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	4.88E-10	0.00E+00	2.38E-09	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-09	7.96E-10	1.14E-05	1.40E-05	8.17E-01	1.40E-04	8.17E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.97E-03	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	5.35E-06	3.68E-05	2.80E-03	1.31E-02	2.80E-02	1.31E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	1.42E-05	9.78E-05	5.80E-02	1.69E-03	5.80E-01	1.69E-04
4,4'-DDT	0.00E+00	mg/L	3.04E-03	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	1.23E-05	8.39E-05	2.80E-03	3.00E-02	2.80E-02	3.00E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-06	7.14E-07	4.92E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	1.44E-06	9.89E-06	2.14E+00	4.62E-06	1.07E+01	9.24E-07
Aluminum	2.10E+00	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.19E-01	0.00E+00	0.00E+00	7.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	1.10E+02	1.73E-03	3.29E+02	5.77E-04
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	3.51E-04	2.74E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	1.17E-05	8.06E-05	4.10E-01	1.97E-04	1.23E+00	6.56E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	5.42E-06	3.73E-05	1.80E-01	2.07E-04	1.80E+00	2.07E-05
Aroclor 1254	0.00E+00	mg/L	5.10E-02	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	1.45E-05	9.97E-05	1.80E-01	5.54E-04	1.80E+00	5.54E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	4.75E-05	3.24E-04	1.80E-01	1.80E-03	1.80E+00	1.80E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	3.24E-06	2.23E-05	1.80E-01	1.24E-04	1.80E+00	1.24E-05
Barium	0.00E+00	mg/L	1.34E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	2.59E-04	1.79E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	2.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	1.38E-03	0.00E+00	0.00E+00	2.95E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-01	1.11E+00	2.67E-01	3.33E+00	8.89E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	5.24E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.28E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-03	1.17E-03	8.12E-03	1.45E+00	5.60E-03	2.00E+01	4.06E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	7.16E-07	4.93E-06	2.14E+00	2.30E-06	1.07E+01	4.60E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-02	1.35E-02	9.83E-02	1.00E+00	9.83E-02	5.00E+00	1.97E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06	9.45E-07	6.51E-06	2.14E+00	3.04E-06	1.07E+01	6.08E-07
Copper	1.42E-02	mg/L	1.27E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.15E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	8.05E-04	0.00E+00	4.47E-03	6.56E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-02	3.68E-03	6.86E-01	4.70E+01	1.46E-02	6.17E+01	1.11E-02
Dieldrin	0.00E+00	mg/L	3.00E-03	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06	7.08E-07	4.88E-06	7.70E-02	6.33E-05	2.31E-01	2.11E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06	1.11E-06	7.63E-06	1.00E-02	7.63E-04	1.00E-01	7.63E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06	8.41E-07	5.79E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	3.14E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.79E-01	0.00E+00	6.04E+00	2.46E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	6.87E-02	3.13E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.76E-03	mg/L	7.66E+01	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	2.48E-01	1.85E-02	3.92E-02	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.41E-04	0.00E+00	1.07E-01	9.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-02	7.84E-03	2.52E-01	3.85E+00	6.53E-02	1.16E+01	2.18E-02
Manganese	2.73E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.55E-02	0.00E+00	5.63E-01	4.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-01	2.97E-02	5.05E+00	9.77E+02	5.17E-03	9.77E+03	5.17E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.16E-04	2.03E-05	1.72E-04	4.50E-01	3.83E-04	9.00E-01	1.92E-04
Mercury (methyl)	0.00E+00	mg/L	2.65E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	6.78E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	1.30E-06	8.97E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	NA	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.36E-02	2.38E-03	2.03E-02	7.74E+01	2.62E-04	1.07E+02	1.89E-04
Nitrate	8.86E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.04E-02	0.00E+00	0.00E+00	7.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E+00	NA	NA	NA	NA
Nitrate/Nitrite	8.12E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.61E-03	0.00E+00	0.00E+00	6.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-06	6.71E-07	4.62E-06	2.14E+00	2.16E-06	1.07E+01	4.32E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	3.37E-06	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03	1.61E-03	1.11E-02	6.73E+00	1.65E-03	6.73E+01	1.65E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	8.83E-04	1.54E-04	1.21E-03	6.50E+01	1.85E-05	1.30E+02	9.27E-06
Selenium	3.74E-03	mg/L	1.29E+00	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.20E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	2.12E-04	0.00E+00	2.48E-04	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	2.66E-04	8.25E-03	4.40E-01	1.88E-02	1.50E+00	5.50E-03
Silver	0.00E+00	mg/L	2.66E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-02	7.85E-03	6.14E-02	NA	NA	NA	NA
Sulfate	1.42E+01	mg/L	6.05E+00	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.10E-01	0.00E+00	1.38E-01	1.19E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-01	1.27E-01	1.21E+02	NA	NA	NA	NA
Thallium	1.70E-03	mg/L	7.02E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							9.66E-05	0.00E+00	0.00E+00	2.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-01	3.50E-01	6.05E-01	1.05E+00	2.02E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	1.16E-06	7.98E-06	2.14E+00	3.73E-06	1.07E+01	7.45E-07
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	9.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	3.01E-04	1.13E-02	1.14E+01	9.87E-04	3.42E+01	3.29E-04
Zinc	8.78E-02	mg/L	9.41E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	6.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	4.99E-03	0.00E+00	3.54E-02	3.44E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-01	8.79E-02	4.07E+00	1.45E+01	2.81E-01	1.31E+02	3.11E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.6E-05	3.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.5E-02	4.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.9E-03	3.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.7E-01	8.9E-02
Aldrin/Dieldrin/Endrin EEQ:	8.3E-04	9.7E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not

Table O-78
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Goose Praire Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	7.00E-09	mg/L	1.27E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	3.98E-10	0.00E+00	1.92E-09	1.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-09	4.98E-10	1.27E-06	1.40E-05	9.08E-02	1.40E-04	9.08E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	2.56E-03	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	2.32E-06	1.61E-05	2.80E-03	5.75E-03	2.80E-02	5.75E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	9.67E-06	6.69E-05	5.80E-02	1.15E-03	5.80E-01	1.15E-04
4,4'-DDT	0.00E+00	mg/L	2.61E-03	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	3.14E-06	2.17E-05	2.80E-03	7.77E-03	2.80E-02	7.77E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	5.11E-07	3.54E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-06	9.15E-07	6.34E-06	2.14E+00	2.96E-06	1.07E+01	5.93E-07
Aluminum	1.73E+00	mg/L	8.98E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.83E-02	0.00E+00	0.00E+00	5.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-01	1.10E+02	1.43E-03	3.29E+02	4.76E-04
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	1.56E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	7.41E-06	5.14E-05	4.10E-01	1.25E-04	1.23E+00	4.18E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	3.51E-06	2.43E-05	1.80E-01	1.35E-04	1.80E+00	1.35E-05
Aroclor 1254	0.00E+00	mg/L	4.20E-02	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	5.47E-06	3.88E-05	1.80E-01	2.15E-04	1.80E+00	2.15E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	2.25E-05	1.54E-04	1.80E-01	8.55E-04	1.80E+00	8.55E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	2.30E-06	1.59E-05	1.80E-01	8.86E-05	1.80E+00	8.86E-06
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04	1.48E-04	1.03E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	1.43E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	8.12E-04	0.00E+00	0.00E+00	7.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-02	1.11E+00	7.27E-02	3.33E+00	2.42E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	4.84E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.58E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	6.74E-04	4.71E-03	1.45E+00	3.25E-03	2.00E+01	2.36E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	5.02E-07	3.48E-06	2.14E+00	1.63E-06	1.07E+01	3.25E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	3.09E-03	2.74E-02	1.00E+00	2.74E-02	5.00E+00	5.48E-03
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	6.15E-07	4.27E-06	2.14E+00	1.99E-06	1.07E+01	3.99E-07
Copper	1.23E-02	mg/L	1.08E+01	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	4.57E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	6.97E-04	0.00E+00	0.00E+00	3.93E-03	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	1.94E-03	1.24E-01	4.70E+01	2.64E-03	6.17E+01	2.01E-03
Dieldrin	0.00E+00	mg/L	2.57E-03	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	4.99E-07	3.46E-06	7.70E-02	4.49E-05	2.31E-01	1.50E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	9.56E-07	6.58E-06	1.00E-02	6.58E-04	1.00E-01	6.58E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06	5.60E-07	3.89E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.68E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.52E-01	0.00E+00	5.48E+00	5.25E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	5.30E-02	1.12E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	6.26E-03	mg/L	5.97E+01	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	2.26E-01	1.85E-02	4.37E-02	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.56E-04	0.00E+00	7.96E-02	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-02	5.10E-03	1.36E-01	3.85E+00	3.54E-02	1.16E+01	1.18E-02
Manganese	2.12E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.21E-02	0.00E+00	4.99E-01	4.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	2.08E-02	1.07E+00	9.77E+02	1.09E-03	9.77E+03	1.09E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	9.37E-05	1.64E-05	1.43E-04	4.50E-01	3.17E-04	9.00E-01	1.58E-04
Mercury (methyl)	0.00E+00	mg/L	2.09E-01	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	7.56E-01	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-06	8.37E-07	5.81E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	0.00E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	NA	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.05E-02	1.83E-03	1.62E-02	7.74E+01	2.09E-04	1.07E+02	1.51E-04
Nitrate	4.70E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.67E-02	0.00E+00	0.00E+00	1.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+00	NA	NA	NA	NA
Nitrate/Nitrite	6.18E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								3.51E-03	0.00E+00	0.00E+00	1.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06	4.95E-07	3.43E-06	2.14E+00	1.60E-06	1.07E+01	3.21E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	1.63E-06	1.13E-05	6.73E+00	1.68E-06	6.73E+01	1.68E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	7.18E-04	4.98E-03	6.73E+00	7.40E-04	6.73E+01	7.40E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	1.62E-04	2.82E-05	2.36E-04	6.50E+01	3.64E-06	1.30E+02	1.82E-06
Selenium	3.23E-03	mg/L	1.10E+00	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	5.12E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	1.83E-04	0.00E+00	2.25E-04	5.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	6.84E-03	4.40E-01	1.55E-02	1.50E+00	4.56E-03
Silver	0.00E+00	mg/L	2.05E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	7.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	4.76E-03	3.99E-02	NA	NA	NA	NA
Sulfate	1.10E+01	mg/L	4.59E+00	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.26E-01	0.00E+00	0.00E+00	7.82E-02	2.59E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-01	4.77E-02	2.70E+01	NA	NA	NA	NA
Thallium	1.00E-03	mg/L	6.22E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							5.70E-05	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	3.50E-01	1.84E-03	1.05E+00	6.14E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06	7.33E-07	5.08E-06	2.14E+00	2.38E-06	1.07E+01	4.75E-07
Vanadium	0.00E+00	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	8.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	2.63E-04	1.05E-02	1.14E+01	9.19E-04	3.42E+01	3.06E-04
Zinc	6.50E-02	mg/L	7.78E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	7.15E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	3.70E-03	0.00E+00	2.89E-02	1.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.92E-02	1.71E+00	1.45E+01	1.18E-01	1.31E+02	1.31E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.1E-05	2.1E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-02	1.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.4E-03	1.7E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	7.3E-02	2.4E-02
Aldrin/Dieldrin/Endrin EEQ:	7.0E-04	8.1E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from approp

Table O-79
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	3.66E-09	0.00E+00	7.32E-09	0	0.00E+00	4.07E-06	0.00E+00	8.32E-10	0.00E+00	0.00E+00	0.00E+00	4.08E-06	1.00E-06	4.08E+00	1.00E-05	4.08E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.60E-06	0	0.00E+00	1.01E-03	0.00E+00	5.20E-06	0.00E+00	0.00E+00	0.00E+00	1.02E-03	8.00E-01	1.27E-03	4.00E+00	2.54E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	7.98E-06	0	0.00E+00	3.11E-03	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	3.24E-03	8.00E-01	4.05E-03	4.00E+00	8.11E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	4.13E-06	0	0.00E+00	1.66E-03	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	1.68E-03	8.00E-01	2.09E-03	4.00E+00	4.19E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.47E-07	0	0.00E+00	1.39E-04	0.00E+00	5.88E-08	0.00E+00	0.00E+00	0.00E+00	1.40E-04	2.00E-01	6.99E-04	1.00E+00	1.40E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.98E-07	0	0.00E+00	2.75E-04	0.00E+00	7.03E-07	0.00E+00	0.00E+00	0.00E+00	2.76E-04	4.58E+00	6.03E-05	9.16E+00	3.02E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.83E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+00	1.93E+00	9.50E-01	1.93E+01	9.50E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.18E-03	0	0.00E+00	3.37E-02	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	3.69E-02	1.25E-01	2.95E-01	1.25E+00	2.95E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.69E-06	0	0.00E+00	2.25E-03	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-03	6.85E-02	3.33E-02	6.85E-01	3.33E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-06	0	0.00E+00	1.04E-03	0.00E+00	6.65E-07	0.00E+00	0.00E+00	0.00E+00	1.04E-03	6.80E-02	1.53E-02	6.80E-01	1.53E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.62E-06	0	0.00E+00	3.09E-03	0.00E+00	1.68E-06	0.00E+00	0.00E+00	0.00E+00	3.10E-03	6.80E-02	4.56E-02	6.80E-01	4.56E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.39E-05	0	0.00E+00	5.91E-03	0.00E+00	1.57E-06	0.00E+00	0.00E+00	0.00E+00	5.92E-03	6.80E-02	8.71E-02	6.80E-01	8.71E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.58E-06	0	0.00E+00	5.52E-04	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	5.74E-04	6.80E-02	8.44E-03	6.80E-01	8.44E-04
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-04	0	0.00E+00	4.18E-02	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	5.21E-02	4.00E+00	1.30E-02	4.00E+01	1.30E-03
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	7.46E-04	0.00E+00	7.12E-04	0	0.00E+00	5.00E-02	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	6.84E-02	1.00E+00	6.84E-02	1.00E+01	6.84E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.48E-07	0	0.00E+00	1.37E-04	0.00E+00	3.51E-07	0.00E+00	0.00E+00	0.00E+00	1.38E-04	4.58E+00	3.01E-05	9.16E+00	1.50E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.24E-02	0	0.00E+00	1.06E-02	0.00E+00	2.69E-01	0.00E+00	0.00E+00	0.00E+00	3.02E-01	2.74E+03	1.10E-04	2.74E+04	1.10E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	3.18E-04	0	0.00E+00	1.51E-04	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	4.28E-03	3.28E+00	1.31E-03	1.31E+01	3.26E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.59E-07	0	0.00E+00	1.81E-04	0.00E+00	4.63E-07	0.00E+00	0.00E+00	0.00E+00	1.82E-04	4.58E+00	3.97E-05	9.16E+00	1.99E-05
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	3.54E-03	0.00E+00	1.38E-02	0	0.00E+00	4.54E-01	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	6.69E-01	1.17E+01	5.72E-02	1.51E+01	4.42E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.44E-07	0	0.00E+00	1.31E-04	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	1.46E-04	2.00E-02	7.29E-03	2.00E-01	7.29E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	5.11E-07	0	0.00E+00	1.95E-04	0.00E+00	4.88E-07	0.00E+00	0.00E+00	0.00E+00	1.96E-04	9.20E-02	2.13E-03	9.20E-01	2.13E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.09E-07	0	0.00E+00	1.59E-04	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	1.59E-04	8.00E-02	1.99E-03	2.90E-01	5.49E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.79E+00	0.00E+00	1.86E+01	0	0.00E+00	3.63E+01	0.00E+00	1.86E+00	0.00E+00	0.00E+00	0.00E+00	5.85E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.55E-03	0.00E+00	3.30E-01	0	NA	1.53E-01	NA	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.08E-01	8.00E+00	8.85E-02	8.00E+01	8.85E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.36E-01	0.00E+00	1.73E+00	0	0.00E+00	9.58E+00	0.00E+00	4.34E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+01	8.80E+01	1.79E-01	2.84E+02	5.56E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.10E-04	0	0.00E+00	1.98E-02	NA	1.37E-06	0.00E+00	0.00E+00	0.00E+00	2.36E-02	1.32E+01	1.79E-03	3.96E+01	5.96E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.33E-07	0	0.00E+00	2.57E-04	0.00E+00	5.44E-07	0.00E+00	0.00E+00	0.00E+00	2.58E-04	7.00E-02	3.69E-03	7.00E-01	3.69E-04
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.32E-02	0	0.00E+00	1.56E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	1.59E+00	4.00E+01	3.98E-02	8.00E+01	1.99E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.60E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-04	1.13E+03	2.30E-04	
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.12E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-02	5.07E+02	4.18E-05	1.13E+03	1.87E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.26E-07	0	0.00E+00	1.25E-04	0.00E+00	2.15E-07	0.00E+00	0.00E+00	0.00E+00	1.25E-04	4.58E+00	2.73E-05	9.16E+00	1.37E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.64E-06	0	0.00E+00	6.22E-04	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	6.25E-04	2.40E-01	2.60E-03	2.40E+00	2.60E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.84E-04	0	0.00E+00	2.91E-01	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	2.93E-01	2.40E-01	1.22E+00	2.40E+00	1.22E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.19E-04	0	0.00E+00	1.48E-02	NA	2.44E-01	0.00E+00	0.00E+00	0.00E+00	2.59E-01	8.50E+00	3.05E-02	2.55E+01	1.02E-02
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	7.65E-04	0	0.00E+00	2.25E-02	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	3.22E-02	2.00E-01	1.61E-01	3.30E-01	9.75E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.65E-02	0	0.00E+00	1.84E-01	0.00E+00	2.32E-01	0.00E+00	0.00E+00	0.00E+00	4.42E-01	2.63E+02	1.68E-03	7.89E+02	5.60E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.83E+00	0.00E+00	4.27E-01	0	0.00E+00	1.22E+01	0.00E+00	3.73E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.63E-07	0	0.00E+00	2.22E-04	0.00E+00	5.67E-07	0.00E+00	0.00E+00	0.00E+00	2.23E-04	4.58E+00	4.87E-05	9.16E+00	2.43E-05
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	9.99E-03	0.00E+00	2.84E-02	0	0.00E+00	6.26E-02	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	1.04E-01	2.10E-01	4.95E-01	2.10E+00	4.95E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	1.09E-01	0	0.00E+00	1.31E+00	0.00E+00	2.21E+00	0.00E+00	0.00E+00	0.00E+00	3.63E+00	1.60E+02	2.27E-02	3.20E+02	1.13E-02

Hazard Index (Total EEQ):	7.9E+00	9.8E-01
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	2.1E-04	1.0E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.4E-03	1.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-01	1.9E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.0E-02	1.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BC

Table O-80
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
													Unitless			mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	3.20E-09	0.00E+00	5.90E-09	0	0.00E+00	1.62E-06	0.00E+00	5.72E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-06	1.00E-06	1.63E+00	1.00E-05	1.63E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.48E-06	0	0.00E+00	3.32E-04	0.00E+00	1.04E-06	0.00E+00	0.00E+00	0.00E+00	3.35E-04	8.00E-01	4.18E-04	4.00E+00	8.37E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	5.75E-06	0	0.00E+00	1.29E-03	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-03	8.00E-01	1.65E-03	4.00E+00	3.30E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.98E-06	0	0.00E+00	4.59E-04	0.00E+00	1.39E-06	0.00E+00	0.00E+00	0.00E+00	4.63E-04	8.00E-01	5.79E-04	4.00E+00	1.16E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.27E-07	0	0.00E+00	7.56E-05	0.00E+00	3.97E-08	0.00E+00	0.00E+00	0.00E+00	7.60E-05	2.00E-01	3.80E-04	1.00E+00	7.60E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.84E-07	0	0.00E+00	1.33E-04	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	1.34E-04	4.58E+00	2.92E-05	9.16E+00	1.46E-05
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.25E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	1.93E+00	6.46E-01	1.93E+01	6.46E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.45E-04	0	0.00E+00	7.08E-03	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	8.90E-03	1.25E-01	7.12E-02	1.25E+00	7.12E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.73E-06	0	0.00E+00	1.08E-03	0.00E+00	9.92E-07	0.00E+00	0.00E+00	0.00E+00	1.08E-03	6.85E-02	1.58E-02	6.85E-01	1.58E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-06	0	0.00E+00	5.11E-04	0.00E+00	4.70E-07	0.00E+00	0.00E+00	0.00E+00	5.13E-04	6.80E-02	7.55E-03	6.80E-01	7.55E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	6.15E-06	0	0.00E+00	1.44E-03	0.00E+00	5.50E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-03	6.80E-02	2.12E-02	6.80E-01	2.12E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	7.55E-06	0	0.00E+00	1.86E-03	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.86E-03	6.80E-02	2.74E-02	6.80E-01	2.74E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.47E-06	0	0.00E+00	2.97E-04	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	3.17E-04	6.80E-02	4.67E-03	6.80E-01	4.67E-04
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.46E-05	0	0.00E+00	1.81E-02	0.00E+00	7.60E-03	0.00E+00	0.00E+00	0.00E+00	2.58E-02	4.00E+00	6.45E-03	4.00E+01	6.45E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	6.26E-04	0.00E+00	5.61E-04	0	0.00E+00	4.59E-02	0.00E+00	1.49E-02	0.00E+00	0.00E+00	0.00E+00	6.19E-02	1.00E+00	6.19E-02	1.00E+01	6.19E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.21E-07	0	0.00E+00	7.29E-05	0.00E+00	7.48E-08	0.00E+00	0.00E+00	0.00E+00	7.33E-05	4.58E+00	1.60E-05	9.16E+00	8.00E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.02E-02	0	0.00E+00	9.57E-03	0.00E+00	2.07E-02	0.00E+00	0.00E+00	0.00E+00	5.04E-02	2.74E+03	1.84E-05	2.74E+04	1.84E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.86E-04	0	0.00E+00	1.36E-04	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	7.15E-04	3.28E+00	2.18E-04	1.31E+01	5.45E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.93E-07	0	0.00E+00	8.93E-05	0.00E+00	9.17E-08	0.00E+00	0.00E+00	0.00E+00	8.98E-05	4.58E+00	1.96E-05	9.16E+00	9.81E-06
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	2.79E-03	0.00E+00	1.21E-02	0	0.00E+00	4.40E-01	0.00E+00	1.88E-01	0.00E+00	0.00E+00	0.00E+00	6.43E-01	1.17E+01	5.50E-02	1.51E+01	4.25E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.19E-07	0	0.00E+00	7.02E-05	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	7.07E-05	2.00E-02	3.53E-03	2.00E-01	3.53E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.41E-07	0	0.00E+00	9.71E-05	0.00E+00	3.02E-07	0.00E+00	0.00E+00	0.00E+00	9.78E-05	9.20E-02	1.06E-03	9.20E-01	1.06E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.58E-07	0	0.00E+00	8.01E-05	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	8.06E-05	8.00E-02	1.01E-03	2.90E-01	2.78E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.25E+00	0.00E+00	1.69E+01	0	0.00E+00	1.52E+01	0.00E+00	1.69E+00	0.00E+00	0.00E+00	0.00E+00	3.50E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.23E-03	0.00E+00	2.45E-01	0	NA	1.13E-01	NA	1.89E-01	0.00E+00	0.00E+00	0.00E+00	5.49E-01	8.00E+00	6.86E-02	8.00E+01	6.86E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	9.50E-02	0.00E+00	1.54E+00	0	0.00E+00	8.70E+00	0.00E+00	3.04E+00	0.00E+00	0.00E+00	0.00E+00	1.34E+01	8.80E+01	1.52E-01	2.84E+02	4.71E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.00E-04	0	0.00E+00	1.91E-02	NA	3.53E-03	0.00E+00	0.00E+00	0.00E+00	2.28E-02	1.32E+01	1.72E-03	3.96E+01	5.75E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.35E-07	0	0.00E+00	1.25E-04	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	1.26E-04	7.00E-02	1.80E-03	7.00E-01	1.80E-04
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.18E-02	0	0.00E+00	3.12E-01	0.00E+00	2.02E-02	0.00E+00	0.00E+00	0.00E+00	3.44E-01	4.00E+01	8.60E-03	8.00E+01	4.30E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.44E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-01	5.07E+02	2.83E-04	1.13E+03	1.27E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.67E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02	5.07E+02	3.28E-05	1.13E+03	1.47E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.16E-07	0	0.00E+00	6.97E-05	0.00E+00	2.08E-07	0.00E+00	0.00E+00	0.00E+00	7.02E-05	4.58E+00	1.53E-05	9.16E+00	7.67E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.04E-06	0	0.00E+00	2.28E-04	0.00E+00	7.14E-07	0.00E+00	0.00E+00	0.00E+00	2.30E-04	2.40E-01	9.57E-04	2.40E+00	9.57E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.59E-04	0	0.00E+00	9.83E-02	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	9.92E-02	2.40E-01	4.13E-01	2.40E+00	4.13E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.43E-04	0	0.00E+00	1.07E-03	NA	1.14E-01	0.00E+00	0.00E+00	0.00E+00	1.15E-01	8.50E+00	1.36E-02	2.55E+01	4.52E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	6.93E-04	0	0.00E+00	2.10E-02	0.00E+00	7.95E-03	0.00E+00	0.00E+00	0.00E+00	2.96E-02	2.00E-01	1.48E-01	3.30E-01	8.97E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.41E-02	0	0.00E+00	5.24E-02	0.00E+00	1.26E-01	0.00E+00	0.00E+00	0.00E+00	2.03E-01	2.63E+02	7.72E-04	7.89E+02	2.57E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.54E+00	0.00E+00	2.41E-01	0	0.00E+00	1.81E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00	4.86E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.69E-07	0	0.00E+00	1.06E-04	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-04	4.58E+00	2.34E-05	9.16E+00	1.17E-05
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	7.92E-03	0.00E+00	2.68E-02	0	0.00E+00	2.82E-02	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	6.53E-02	2.10E-01	3.11E-01	2.10E+00	3.11E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	8.89E-02	0	0.00E+00	1.07E+00	0.00E+00	1.97E+00	0.00E+00	0.00E+00	0.00E+00	3.12E+00	1.60E+02	1.95E-02	3.20E+02	9.76E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-04	5.2E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.6E-03	5.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.7E-02	7.7E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	5.0E-03	5.4E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home

Table O-81
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
									----------Unitless----------							mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.00E-09	2.09E-08	9.31E-09	5.203E-06	1.46E-06	6.60E-07	0.00E+00	5.40E-10	0.00E+00	6.03E-10	0.00E+00	7.36E-06	1.00E-06	7.36E+00	1.00E-05	7.36E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.15E-07	0	0.00E+00	1.64E-04	0.00E+00	3.37E-06	0.00E+00	4.05E-06	0.00E+00	1.74E-04	8.00E-01	2.18E-04	4.00E+00	4.36E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.01E-05	0	0.00E+00	5.05E-04	0.00E+00	8.03E-05	0.00E+00	1.07E-05	0.00E+00	6.06E-04	8.00E-01	7.58E-04	4.00E+00	1.52E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	5.26E-06	0	0.00E+00	2.70E-04	0.00E+00	5.37E-06	0.00E+00	9.30E-06	0.00E+00	2.90E-04	8.00E-01	3.62E-04	4.00E+00	7.25E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-07	0	0.00E+00	2.26E-05	0.00E+00	3.82E-08	0.00E+00	5.41E-07	0.00E+00	2.36E-05	2.00E-01	1.18E-04	1.00E+00	2.36E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.87E-07	0	0.00E+00	4.46E-05	0.00E+00	4.57E-07	0.00E+00	1.09E-06	0.00E+00	4.71E-05	4.58E+00	1.03E-05	9.16E+00	5.14E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.03E-01	2.29E+01	0.00E+00	0.0659218	3.28E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E+02	1.93E+00	1.82E+02	1.93E+01	1.82E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.50E-03	0	0.00E+00	5.46E-03	0.00E+00	1.34E-03	0.00E+00	2.66E-04	0.00E+00	8.57E-03	1.25E-01	6.86E-02	1.25E+00	6.86E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.24E-06	0	0.00E+00	3.65E-04	0.00E+00	1.51E-05	0.00E+00	8.87E-06	0.00E+00	3.96E-04	6.85E-02	5.79E-03	6.85E-01	5.79E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.35E-06	0	0.00E+00	1.69E-04	0.00E+00	4.32E-07	0.00E+00	4.10E-06	0.00E+00	1.77E-04	6.80E-02	2.60E-03	6.90E-01	2.56E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	9.69E-06	0	0.00E+00	5.01E-04	0.00E+00	1.09E-06	0.00E+00	1.09E-05	0.00E+00	5.23E-04	6.80E-02	7.69E-03	6.90E-01	7.58E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.76E-05	0	0.00E+00	9.59E-04	0.00E+00	1.02E-06	0.00E+00	3.60E-05	0.00E+00	1.01E-03	6.80E-02	1.49E-02	6.90E-01	1.47E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.01E-06	0	0.00E+00	8.96E-05	0.00E+00	1.35E-05	0.00E+00	2.46E-06	0.00E+00	1.08E-04	6.80E-02	1.58E-03	6.90E-01	1.56E-04
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.12E-01	0.00E+00	0	4.48E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E+00	5.10E+00	9.40E-01	1.98E+01	2.42E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.60E-04	0	0.00E+00	6.79E-03	0.00E+00	6.58E-03	0.00E+00	1.97E-04	0.00E+00	1.37E-02	4.00E+00	3.43E-03	4.00E+01	3.43E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	2.05E-04	1.29E-03	9.05E-04	0.0101703	3.29E-02	8.11E-03	0.00E+00	1.10E-02	0.00E+00	8.88E-04	0.00E+00	6.55E-02	1.00E+00	6.55E-02	1.00E+01	6.55E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.42E-07	0	0.00E+00	2.22E-05	0.00E+00	2.28E-07	0.00E+00	5.42E-07	0.00E+00	2.35E-05	4.58E+00	5.12E-06	9.16E+00	2.56E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.85E-02	0	0.00E+00	1.73E-03	0.00E+00	1.74E-01	0.00E+00	1.01E-02	0.00E+00	2.15E-01	2.74E+03	7.85E-05	2.74E+04	7.85E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.04E-04	0	0.00E+00	2.45E-05	0.00E+00	2.48E-03	0.00E+00	1.43E-04	0.00E+00	3.05E-03	3.28E+00	9.30E-04	1.31E+01	2.32E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.84E-07	0	0.00E+00	2.94E-05	0.00E+00	3.01E-07	0.00E+00	7.16E-07	0.00E+00	3.10E-05	4.58E+00	6.76E-06	9.16E+00	3.38E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	9.72E-04	1.70E-02	1.75E-02	0.175209	2.84E-01	7.37E-02	0.00E+00	1.29E-01	0.00E+00	2.79E-03	0.00E+00	7.00E-01	1.17E+01	5.99E-02	1.51E+01	4.63E-02
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	1.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.38E-07	0	0.00E+00	2.13E-05	0.00E+00	9.16E-06	0.00E+00	5.37E-07	0.00E+00	3.15E-05	2.00E-02	1.57E-03	2.00E-01	1.57E-04
Endrin	0.00E+00	mg/L	2.75E-04	mg/kg	1.00E+00	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	6.49E-07	0	0.00E+00	3.16E-05	0.00E+00	3.17E-07	0.00E+00	8.40E-07	0.00E+00	3.34E-05	9.20E-02	3.64E-04	9.20E-01	3.64E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.20E-07	0	0.00E+00	2.57E-05	0.00E+00	1.25E-07	0.00E+00	6.37E-07	0.00E+00	2.70E-05	8.00E-02	3.38E-04	2.90E-01	9.32E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.92E-01	0.00E+00	2.37E+01	14.993368	0.00E+00	5.89E+00	0.00E+00	1.21E+00	0.00E+00	5.21E-02	0.00E+00	4.63E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.44E-04	0.00E+00	0	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.27E-04	0.00E+00	4.20E-01	0.0194922	NA	2.48E-02	NA	1.45E-01	0.00E+00	5.94E-03	0.00E+00	6.16E-01	8.00E+00	7.69E-02	8.00E+01	7.69E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.74E-02	0.00E+00	2.21E+00	2.2798057	0.00E+00	1.56E+00	0.00E+00	2.82E+00	0.00E+00	2.25E-02	0.00E+00	8.92E+00	8.80E+01	1.01E-01	2.84E+02	3.14E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.40E-04	0	0.00E+00	3.21E-03	NA	2.41E-03	0.00E+00	1.54E-05	0.00E+00	5.78E-03	1.00E+00	5.78E-03	3.00E+00	1.93E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.26E-04	0.00E+00	0	5.41E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.66E-04	1.50E-02	5.11E-02	2.50E-02	3.07E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.05E-07	0	0.00E+00	4.17E-05	0.00E+00	3.53E-07	0.00E+00	9.87E-07	0.00E+00	4.38E-05	7.00E-02	6.26E-04	7.00E-01	6.26E-05
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00	2.32E+00		4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	2.20E-02	1.68E-02	0	1.63E-01	2.53E-01	0.00E+00	1.42E-02	0.00E+00	1.80E-03	0.00E+00	4.71E-01	4.00E+01	1.18E-02	8.00E+01	5.88E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.14E-02	3.06E-04	0.00E+00	2.3232753	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E+00	5.07E+02	4.73E-03	1.13E+03	2.12E-03
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.82E-03	0.00E+00	0.00E+00	0.1891617	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-01	5.07E+02	3.85E-04	1.13E+03	1.73E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.15E-07	0	0.00E+00	2.02E-05	0.00E+00	1.39E-07	0.00E+00	5.08E-07	0.00E+00	2.13E-05	4.58E+00	4.65E-06	9.16E+00	2.32E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.08E-06	0	0.00E+00	1.01E-04	0.00E+00	8.90E-07	0.00E+00	2.55E-06	0.00E+00	1.06E-04	2.40E-01	4.43E-04	2.40E+00	4.43E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.97E-04	0	0.00E+00	4.72E-02	0.00E+00	8.97E-04	0.00E+00	1.22E-03	0.00E+00	5.04E-02	2.40E-01	2.10E-01	2.40E+00	2.10E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.60E-04	0	0.00E+00	2.40E-03	NA	1.58E-01	0.00E+00	1.17E-04	0.00E+00	1.62E-01	8.50E+00	1.90E-02	2.55E+01	6.33E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	2.04E-03	9.73E-04	0	2.93E-02	3.66E-03	0.00E+00	5.76E-03	0.00E+00	2.02E-04	0.00E+00	4.20E-02	2.00E-01	2.10E-01	3.30E-01	1.27E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.37E-02	0	0.00E+00	2.99E-02	0.00E+00	1.50E-01	0.00E+00	5.95E-03	0.00E+00	2.20E-01	2.63E+02	8.36E-04	7.89E+02	2.79E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.02E-01	4.71E-02	5.42E-01	16.31886	3.15E-01	1.97E+00	0.00E+00	2.42E+00	0.00E+00	9.59E-02	0.00E+00	2.22E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.68E-03	0.00E+00	0	2.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-02	7.40E-03	3.48E+00	7.40E-02	3.48E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.16E-07	0	0.00E+00	3.60E-05	0.00E+00	3.68E-07	0.00E+00	8.77E-07	0.00E+00	3.80E-05	4.58E+00	8.29E-06	9.16E+00	4.14E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.74E-03	0.00E+00	3.62E-02	0.0892196	0.00E+00	1.02E-02	0.00E+00	1.85E-03	0.00E+00	2.28E-04	0.00E+00	1.40E-01	2.10E-01	6.68E-01	2.10E+00	6.68E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	9.00E-02	1.39E-01	0	2.16E+00	2.13E-01	0.00E+00	1.43E+00	0.00E+00	6.66E-02	0.00E+00	4.10E+00	1.60E+02	2.56E-02	3.20E+02	1.28E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	3.5E-05	1.8E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.3E-03	2.7E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.3E-02	3.2E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.1E-03	2.2E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g.,

Table O-82
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	8.79E-10	1.32E-08	7.51E-09	6.18E-07	1.96E-07	2.64E-07	0.00E+00	3.71E-10	0.00E+00	3.77E-10	0.00E+00	1.10E-06	1.00E-06	1.10E+00	1.00E-05	1.10E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.89E-06	0	0.00E+00	5.39E-05	0.00E+00	6.75E-07	0.00E+00	1.76E-06	0.00E+00	5.82E-05	8.00E-01	7.28E-05	4.00E+00	1.46E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	7.31E-06	0	0.00E+00	2.10E-04	0.00E+00	1.27E-05	0.00E+00	7.33E-06	0.00E+00	2.37E-04	8.00E-01	2.97E-04	4.00E+00	5.93E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	2.52E-06	0	0.00E+00	7.46E-05	0.00E+00	9.00E-07	0.00E+00	2.38E-06	0.00E+00	8.04E-05	8.00E-01	1.00E-04	4.00E+00	2.01E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.15E-07	0	0.00E+00	1.23E-05	0.00E+00	2.58E-08	0.00E+00	3.87E-07	0.00E+00	1.31E-05	2.00E-01	6.55E-05	1.00E+00	1.31E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.43E-07	0	0.00E+00	2.16E-05	0.00E+00	8.85E-08	0.00E+00	6.93E-07	0.00E+00	2.31E-05	4.58E+00	5.04E-06	9.16E+00	2.52E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.42E-01	1.91E+01	0.00E+00	0.0448268	2.74E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E+02	1.93E+00	1.52E+02	1.93E+01	1.52E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.20E-03	0	0.00E+00	1.15E-03	0.00E+00	5.67E-04	0.00E+00	1.42E-04	0.00E+00	3.06E-03	1.25E-01	2.45E-02	1.25E+00	2.45E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.02E-06	0	0.00E+00	1.75E-04	0.00E+00	6.44E-07	0.00E+00	5.61E-06	0.00E+00	1.87E-04	6.85E-02	2.73E-03	6.85E-01	2.73E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0	0.00E+00	8.29E-05	0.00E+00	3.05E-07	0.00E+00	2.66E-06	0.00E+00	8.87E-05	6.80E-02	1.30E-03	6.90E-01	1.29E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.82E-06	0	0.00E+00	2.33E-04	0.00E+00	3.57E-07	0.00E+00	4.14E-06	0.00E+00	2.46E-04	6.80E-02	3.61E-03	6.90E-01	3.56E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	9.60E-06	0	0.00E+00	3.01E-04	0.00E+00	7.88E-08	0.00E+00	1.71E-05	0.00E+00	3.28E-04	6.80E-02	4.82E-03	6.90E-01	4.75E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.87E-06	0	0.00E+00	4.81E-05	0.00E+00	1.26E-05	0.00E+00	1.74E-06	0.00E+00	6.43E-05	6.80E-02	9.46E-04	6.90E-01	9.32E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0	4.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E+00	5.10E+00	8.39E-01	1.98E+01	2.16E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.20E-04	0	0.00E+00	2.94E-03	0.00E+00	4.94E-03	0.00E+00	1.12E-04	0.00E+00	8.10E-03	4.00E+00	2.03E-03	4.00E+01	2.03E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	1.72E-04	1.08E-03	7.13E-04	0.0060047	2.06E-03	7.45E-03	0.00E+00	9.65E-03	0.00E+00	5.10E-04	0.00E+00	2.76E-02	1.00E+00	2.76E-02	1.00E+01	2.76E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.08E-07	0	0.00E+00	1.18E-05	0.00E+00	4.86E-08	0.00E+00	3.80E-07	0.00E+00	1.27E-05	4.58E+00	2.77E-06	9.16E+00	1.38E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.56E-02	0	0.00E+00	1.55E-03	0.00E+00	1.34E-02	0.00E+00	2.31E-03	0.00E+00	4.29E-02	2.74E+03	1.57E-05	2.74E+04	1.57E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.64E-04	0	0.00E+00	2.21E-05	0.00E+00	1.90E-04	0.00E+00	3.28E-05	0.00E+00	6.09E-04	3.28E+00	1.86E-04	1.31E+01	4.64E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.00E-07	0	0.00E+00	1.45E-05	0.00E+00	5.95E-08	0.00E+00	4.66E-07	0.00E+00	1.55E-05	4.58E+00	3.39E-06	9.16E+00	1.70E-06
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	7.67E-04	1.45E-02	1.54E-02	0.0259564	7.24E-02	7.14E-02	0.00E+00	1.22E-01	0.00E+00	1.47E-03	0.00E+00	3.24E-01	1.17E+01	2.77E-02	1.51E+01	2.14E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.05E-07	0	0.00E+00	1.14E-05	0.00E+00	1.24E-07	0.00E+00	3.78E-07	0.00E+00	1.23E-05	2.00E-02	6.15E-04	2.00E-01	6.15E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.61E-07	0	0.00E+00	1.58E-05	0.00E+00	1.96E-07	0.00E+00	7.24E-07	0.00E+00	1.72E-05	9.20E-02	1.87E-04	9.20E-01	1.87E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.55E-07	0	0.00E+00	1.30E-05	0.00E+00	9.23E-08	0.00E+00	4.24E-07	0.00E+00	1.40E-05	8.00E-02	1.75E-04	2.90E-01	4.82E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.44E-01	0.00E+00	2.15E+01	2.6187527	0.00E+00	2.47E+00	0.00E+00	1.10E+00	0.00E+00	4.01E-02	0.00E+00	2.80E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	1.44E-04	0.00E+00	0	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.37E-04	0.00E+00	3.12E-01	0.0045967	NA	1.84E-02	NA	1.23E-01	0.00E+00	3.86E-03	0.00E+00	4.62E-01	8.00E+00	5.77E-02	8.00E+01	5.77E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.61E-02	0.00E+00	1.96E+00	0.1986017	0.00E+00	1.41E+00	0.00E+00	1.97E+00	0.00E+00	1.58E-02	0.00E+00	5.58E+00	8.80E+01	6.34E-02	2.84E+02	1.97E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.27E-04	0	0.00E+00	3.11E-03	NA	2.29E-03	0.00E+00	1.24E-05	0.00E+00	5.54E-03	1.00E+00	5.54E-03	3.00E+00	1.85E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.97E-04	0.00E+00	0	4.71E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	6.68E-04	1.50E-02	4.45E-02	2.50E-02	2.67E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.80E-07	0	0.00E+00	2.03E-05	0.00E+00	2.99E-08	0.00E+00	6.34E-07	0.00E+00	2.17E-05	7.00E-02	3.09E-04	7.00E-01	3.09E-05
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	1.92E-02	1.50E-02	0	2.97E-02	5.07E-02	0.00E+00	1.31E-02	0.00E+00	1.39E-03	0.00E+00	1.29E-01	4.00E+01	3.23E-03	8.00E+01	1.61E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.94E-02	2.24E-04	0.00E+00	0.3614527	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-01	5.07E+02	7.92E-04	1.13E+03	3.55E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.57E-03	0.00E+00	0.00E+00	0.0418864	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-02	5.07E+02	9.16E-05	1.13E+03	4.11E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.02E-07	0	0.00E+00	1.13E-05	0.00E+00	1.35E-07	0.00E+00	3.75E-07	0.00E+00	1.22E-05	4.58E+00	2.67E-06	9.16E+00	1.34E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.32E-06	0	0.00E+00	3.70E-05	0.00E+00	4.64E-07	0.00E+00	1.24E-06	0.00E+00	4.00E-05	2.40E-01	1.67E-04	2.40E+00	1.67E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.84E-04	0	0.00E+00	1.60E-02	0.00E+00	3.17E-04	0.00E+00	5.44E-04	0.00E+00	1.74E-02	2.40E-01	7.25E-02	2.40E+00	7.25E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.82E-04	0	0.00E+00	1.74E-04	NA	7.40E-02	0.00E+00	2.14E-05	0.00E+00	7.44E-02	8.50E+00	8.75E-03	2.55E+01	2.92E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	1.77E-03	8.81E-04	0	2.54E-02	3.40E-03	0.00E+00	5.16E-03	0.00E+00	1.42E-04	0.00E+00	3.68E-02	2.00E-01	1.84E-01	3.30E-01	1.11E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.06E-02	0	0.00E+00	8.50E-03	0.00E+00	8.21E-02	0.00E+00	3.61E-03	0.00E+00	1.25E-01	2.63E+02	4.75E-04	7.89E+02	1.58E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.23E-01	3.27E-02	3.07E-01	3.8754383	4.39E-02	2.94E-01	0.00E+00	8.22E-01	0.00E+00	3.61E-02	0.00E+00	5.83E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.45E-03	0.00E+00	0	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-02	7.40E-03	3.00E+00	7.40E-02	3.00E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.96E-07	0	0.00E+00	1.73E-05	0.00E+00	7.09E-08	0.00E+00	5.55E-07	0.00E+00	1.85E-05	4.58E+00	4.04E-06	9.16E+00	2.02E-06
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.17E-03	0.00E+00	3.41E-02	0.0199161	0.00E+00	4.57E-03	0.00E+00	1.57E-03	0.00E+00	1.99E-04	0.00E+00	6.26E-02	2.10E-01	2.98E-01	2.10E+00	2.98E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	7.59E-02	1.13E-01	0	4.69E-01	1.73E-01	0.00E+00	1.28E+00	0.00E+00	2.22E-02	0.00E+00	2.13E+00	1.60E+02	1.33E-02	3.20E+02	6.66E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-05	9.0E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.7E-04	9.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-02	1.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	8.7E-04	9.3E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95%

Table O-83
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.00E-09	3.67E-09	1.63E-09	3.068E-06	8.61E-07	3.89E-07	0.00E+00	3.19E-10	0.00E+00	3.56E-10	0.00E+00	4.33E-06	1.00E-06	4.33E+00	1.00E-05	4.33E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.80E-07	0	0.00E+00	9.65E-05	0.00E+00	1.99E-06	0.00E+00	2.39E-06	0.00E+00	1.01E-04	8.00E-01	1.27E-04	4.00E+00	2.54E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.78E-06	0	0.00E+00	2.98E-04	0.00E+00	4.73E-05	0.00E+00	6.32E-06	0.00E+00	3.53E-04	8.00E-01	4.41E-04	4.00E+00	8.83E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	9.23E-07	0	0.00E+00	1.59E-04	0.00E+00	3.17E-06	0.00E+00	5.48E-06	0.00E+00	1.69E-04	8.00E-01	2.11E-04	4.00E+00	4.22E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.75E-08	0	0.00E+00	1.33E-05	0.00E+00	2.25E-08	0.00E+00	3.19E-07	0.00E+00	1.38E-05	2.00E-01	6.88E-05	1.00E+00	1.38E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.16E-04	0	0.00E+00	2.63E-05	0.00E+00	2.69E-07	0.00E+00	6.41E-07	0.00E+00	2.74E-05	4.58E+00	5.98E-06	9.16E+00	2.99E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.03E-01	4.02E+00	0.00E+00	0.0388711	1.94E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E+02	1.93E+00	1.03E+02	1.93E+01	1.03E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.64E-04	0	0.00E+00	3.22E-03	0.00E+00	7.91E-04	0.00E+00	1.57E-04	0.00E+00	4.43E-03	1.25E-01	3.55E-02	1.25E+00	3.55E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.27E-06	0	0.00E+00	2.15E-04	0.00E+00	8.88E-06	0.00E+00	5.23E-06	0.00E+00	2.31E-04	6.85E-02	3.37E-03	6.85E-01	3.37E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.88E-07	0	0.00E+00	9.96E-05	0.00E+00	2.55E-07	0.00E+00	2.42E-06	0.00E+00	1.03E-04	6.80E-02	1.51E-03	6.90E-01	1.49E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.70E-06	0	0.00E+00	2.96E-04	0.00E+00	6.45E-07	0.00E+00	6.46E-06	0.00E+00	3.04E-04	6.80E-02	4.48E-03	6.90E-01	4.41E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.09E-06	0	0.00E+00	5.65E-04	0.00E+00	6.03E-07	0.00E+00	2.12E-05	0.00E+00	5.90E-04	6.80E-02	8.68E-03	6.90E-01	8.55E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-07	0	0.00E+00	5.28E-05	0.00E+00	7.94E-06	0.00E+00	1.45E-06	0.00E+00	6.26E-05	6.80E-02	9.20E-04	6.90E-01	9.07E-05
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	5.48E-02	0.00E+00	0	2.64E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E+00	5.10E+00	5.29E-01	1.98E+01	1.36E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.82E-05	0	0.00E+00	4.00E-03	0.00E+00	3.88E-03	0.00E+00	1.16E-04	0.00E+00	8.03E-03	4.00E+00	2.01E-03	4.00E+01	2.01E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	2.05E-04	2.27E-04	1.59E-04	0.005997	1.94E-02	4.78E-03	0.00E+00	6.49E-03	0.00E+00	5.24E-04	0.00E+00	3.78E-02	1.00E+00	3.78E-02	1.00E+01	3.78E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.77E-08	0	0.00E+00	1.31E-05	0.00E+00	1.34E-07	0.00E+00	3.20E-07	0.00E+00	1.36E-05	4.58E+00	2.98E-06	9.16E+00	1.49E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	5.00E-03	0	0.00E+00	1.02E-03	0.00E+00	1.03E-01	0.00E+00	5.95E-03	0.00E+00	1.15E-01	2.74E+03	4.20E-05	2.74E+04	4.20E-06
Chromium (hexavalent)	0.00E+00	mg/L	1.71E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.10E-05	0	0.00E+00	1.45E-05	0.00E+00	1.46E-03	0.00E+00	8.45E-05	0.00E+00	1.63E-03	3.28E+00	4.97E-04	1.31E+01	1.24E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.03E-07	0	0.00E+00	1.73E-05	0.00E+00	1.77E-07	0.00E+00	4.22E-07	0.00E+00	1.80E-05	4.58E+00	3.93E-06	9.16E+00	1.97E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	9.72E-04	2.98E-03	3.08E-03	0.1033129	1.68E-01	4.34E-02	0.00E+00	7.58E-02	0.00E+00	1.64E-03	0.00E+00	3.99E-01	1.17E+01	3.41E-02	1.51E+01	2.64E-02
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	1.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.69E-08	0	0.00E+00	1.26E-05	0.00E+00	5.40E-06	0.00E+00	3.16E-07	0.00E+00	1.84E-05	2.00E-02	9.19E-04	2.00E-01	9.19E-05
Endrin	0.00E+00	mg/L	2.75E-04	mg/kg	1.00E+00	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.14E-07	0	0.00E+00	1.87E-05	0.00E+00	1.87E-07	0.00E+00	4.96E-07	0.00E+00	1.95E-05	9.20E-02	2.11E-04	9.20E-01	2.11E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.13E-08	0	0.00E+00	1.52E-05	0.00E+00	7.39E-08	0.00E+00	3.76E-07	0.00E+00	1.57E-05	8.00E-02	1.96E-04	2.90E-01	5.42E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.92E-01	0.00E+00	4.16E+00	8.8409168	0.00E+00	3.47E+00	0.00E+00	7.12E-01	0.00E+00	3.07E-02	0.00E+00	1.77E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	2.53E-05	0.00E+00	0	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.27E-04	0.00E+00	7.38E-02	0.0114937	NA	1.46E-02	NA	8.55E-02	0.00E+00	3.50E-03	0.00E+00	1.89E-01	8.00E+00	2.37E-02	8.00E+01	2.37E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.74E-02	0.00E+00	3.87E-01	1.3442992	0.00E+00	9.17E-01	0.00E+00	1.66E+00	0.00E+00	1.32E-02	0.00E+00	4.36E+00	8.80E+01	4.95E-02	2.84E+02	1.54E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	2.47E-05	0	0.00E+00	1.89E-03	NA	1.42E-03	0.00E+00	9.07E-06	0.00E+00	3.35E-03	1.00E+00	3.35E-03	3.00E+00	1.12E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	3.97E-05	0.00E+00	0	3.19E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.58E-04	1.50E-02	2.39E-02	2.50E-02	1.43E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E-07	0	0.00E+00	2.46E-05	0.00E+00	2.08E-07	0.00E+00	5.82E-07	0.00E+00	2.55E-05	7.00E-02	3.65E-04	7.00E-01	3.65E-05
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	3.86E-03	2.94E-03	0	9.60E-02	1.49E-01	0.00E+00	8.39E-03	0.00E+00	1.06E-03	0.00E+00	2.61E-01	4.00E+01	6.54E-03	8.00E+01	3.27E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.14E-02	5.37E-05	0.00E+00	1.3699313	1.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E+00	5.07E+02	2.85E-03	1.13E+03	1.28E-03
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.82E-03	0.00E+00	0.00E+00	0.1115402	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	5.07E+02	2.31E-04	1.13E+03	1.04E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.28E-08	0	0.00E+00	1.19E-05	0.00E+00	8.22E-08	0.00E+00	3.00E-07	0.00E+00	1.24E-05	4.58E+00	2.70E-06	9.16E+00	1.35E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.66E-07	0	0.00E+00	5.95E-05	0.00E+00	5.25E-07	0.00E+00	1.51E-06	0.00E+00	6.19E-05	2.40E-01	2.58E-04	2.40E+00	2.58E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.75E-04	0	0.00E+00	2.79E-02	0.00E+00	5.29E-04	0.00E+00	7.20E-04	0.00E+00	2.93E-02	2.40E-01	1.22E-01	2.40E+00	1.22E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.16E-04	0	0.00E+00	1.42E-03	NA	9.34E-02	0.00E+00	6.88E-05	0.00E+00	9.50E-02	8.50E+00	1.12E-02	2.55E+01	3.72E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	3.59E-04	1.71E-04	0	1.73E-02	2.16E-03	0.00E+00	3.40E-03	0.00E+00	1.19E-04	0.00E+00	2.35E-02	2.00E-01	1.18E-01	3.30E-01	7.12E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.91E-03	0	0.00E+00	1.76E-02	0.00E+00	8.87E-02	0.00E+00	3.51E-03	0.00E+00	1.16E-01	2.63E+02	4.40E-04	7.89E+02	1.47E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.02E-01	8.27E-03	9.53E-02	9.6225004	1.86E-01	1.16E+00	0.00E+00	1.43E+00	0.00E+00	5.65E-02	0.00E+00	1.31E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	2.95E-04	0.00E+00	0	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02	7.40E-03	1.96E+00	7.40E-02	1.96E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-07	0	0.00E+00	2.12E-05	0.00E+00	2.17E-07	0.00E+00	5.17E-07	0.00E+00	2.21E-05	4.58E+00	4.82E-06	9.16E+00	2.41E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.74E-03	0.00E+00	6.35E-03	0.0526088	0.00E+00	5.99E-03	0.00E+00	1.09E-03	0.00E+00	1.34E-04	0.00E+00	6.89E-02	2.10E-01	3.28E-01	2.10E+00	3.28E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	1.58E-02	2.44E-02	0	1.28E+00	1.25E-01	0.00E+00	8.44E-01	0.00E+00	3.93E-02	0.00E+00	2.32E+00	1.60E+02	1.45E-02	3.20E+02	7.27E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.0E-05	1.0E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.8E-04	1.6E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-02	1.9E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.2E-03	1.3E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound

Table O-84
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	8.79E-10	2.32E-09	1.32E-09	3.644E-07	1.16E-07	1.56E-07	0.00E+00	2.19E-10	0.00E+00	2.23E-10	0.00E+00	6.41E-07	1.00E-06	6.41E-01	1.00E-05	6.41E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.18E-05	0.00E+00	3.98E-07	0.00E+00	1.04E-06	0.00E+00	3.36E-05	8.00E-01	4.19E-05	4.00E+00	8.39E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.24E-04	0.00E+00	7.48E-06	0.00E+00	4.32E-06	0.00E+00	1.37E-04	8.00E-01	1.71E-04	4.00E+00	3.42E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	4.40E-05	0.00E+00	5.31E-07	0.00E+00	1.40E-06	0.00E+00	4.64E-05	8.00E-01	5.79E-05	4.00E+00	1.16E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.24E-06	0.00E+00	1.52E-08	0.00E+00	2.28E-07	0.00E+00	7.55E-06	2.00E-01	3.78E-05	1.00E+00	7.55E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.27E-05	0.00E+00	5.22E-08	0.00E+00	4.09E-07	0.00E+00	1.33E-05	4.58E+00	2.90E-06	9.16E+00	1.45E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.42E-01	3.35E+00	0.00E+00	0.0264324	1.62E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E+02	1.93E+00	8.56E+01	1.93E+01	8.56E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.78E-04	0.00E+00	3.35E-04	0.00E+00	8.34E-05	0.00E+00	1.31E-03	1.25E-01	1.05E-02	1.25E+00	1.05E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.03E-04	0.00E+00	3.80E-07	0.00E+00	3.31E-06	0.00E+00	1.08E-04	6.85E-02	1.58E-03	6.85E-01	1.58E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	4.89E-05	0.00E+00	1.80E-07	0.00E+00	1.57E-06	0.00E+00	5.11E-05	6.80E-02	7.52E-04	6.90E-01	7.41E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.38E-04	0.00E+00	2.11E-07	0.00E+00	2.44E-06	0.00E+00	1.42E-04	6.80E-02	2.08E-03	6.90E-01	2.05E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.78E-04	0.00E+00	4.64E-08	0.00E+00	1.01E-05	0.00E+00	1.89E-04	6.80E-02	2.79E-03	6.90E-01	2.75E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.84E-05	0.00E+00	7.40E-06	0.00E+00	1.03E-06	0.00E+00	3.71E-05	6.80E-02	5.46E-04	6.90E-01	5.38E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	4.89E-02	0.00E+00	0	2.36E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	5.10E+00	4.72E-01	1.98E+01	1.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-05	0	0.00E+00	1.73E-03	0.00E+00	2.91E-03	0.00E+00	6.61E-05	0.00E+00	4.73E-03	4.00E+00	1.18E-03	4.00E+01	1.18E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	1.72E-04	1.89E-04	1.25E-04	0.0035407	1.22E-03	4.39E-03	0.00E+00	5.69E-03	0.00E+00	3.01E-04	0.00E+00	1.56E-02	1.00E+00	1.56E-02	1.00E+01	1.56E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.17E-08	0	0.00E+00	6.98E-06	0.00E+00	2.86E-08	0.00E+00	2.24E-07	0.00E+00	7.30E-06	4.58E+00	1.59E-06	9.16E+00	7.97E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	4.50E-03	0	0.00E+00	9.16E-04	0.00E+00	7.91E-03	0.00E+00	1.36E-03	0.00E+00	1.47E-02	2.74E+03	5.37E-06	2.74E+04	5.37E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	6.39E-05	0	0.00E+00	1.30E-05	0.00E+00	1.12E-04	0.00E+00	1.93E-05	0.00E+00	2.09E-04	3.28E+00	6.36E-05	1.31E+01	1.59E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.78E-08	0	0.00E+00	8.55E-06	0.00E+00	3.51E-08	0.00E+00	2.75E-07	0.00E+00	8.95E-06	4.58E+00	1.95E-06	9.16E+00	9.77E-07
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	7.67E-04	2.55E-03	2.70E-03	0.0153053	4.27E-02	4.21E-02	0.00E+00	7.21E-02	0.00E+00	8.66E-04	0.00E+00	1.79E-01	1.17E+01	1.53E-02	1.51E+01	1.18E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.12E-08	0	0.00E+00	6.72E-06	0.00E+00	7.32E-08	0.00E+00	2.23E-07	0.00E+00	7.08E-06	2.00E-02	3.54E-04	2.00E-01	3.54E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	9.85E-08	0	0.00E+00	9.29E-06	0.00E+00	1.16E-07	0.00E+00	4.27E-07	0.00E+00	9.93E-06	9.20E-02	1.08E-04	9.20E-01	1.08E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.00E-08	0	0.00E+00	7.67E-06	0.00E+00	5.44E-08	0.00E+00	2.50E-07	0.00E+00	8.05E-06	8.00E-02	1.01E-04	2.90E-01	2.78E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.44E-01	0.00E+00	3.77E+00	1.5441611	0.00E+00	1.45E+00	0.00E+00	6.46E-01	0.00E+00	2.37E-02	0.00E+00	7.78E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	2.53E-05	0.00E+00	0	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.37E-04	0.00E+00	5.48E-02	0.0027104	NA	1.08E-02	NA	7.24E-02	0.00E+00	2.28E-03	0.00E+00	1.43E-01	8.00E+00	1.79E-02	8.00E+01	1.79E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.61E-02	0.00E+00	3.44E-01	0.1171065	0.00E+00	8.32E-01	0.00E+00	1.16E+00	0.00E+00	9.31E-03	0.00E+00	2.49E+00	8.80E+01	2.83E-02	2.84E+02	8.77E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.24E-05	0	0.00E+00	1.83E-03	NA	1.35E-03	0.00E+00	7.31E-06	0.00E+00	3.21E-03	1.00E+00	3.21E-03	3.00E+00	1.07E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	3.46E-05	0.00E+00	0	2.78E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.12E-04	1.50E-02	2.08E-02	2.50E-02	1.25E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.19E-07	0	0.00E+00	1.20E-05	0.00E+00	1.76E-08	0.00E+00	3.74E-07	0.00E+00	1.25E-05	7.00E-02	1.78E-04	7.00E-01	1.78E-05
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	3.36E-03	2.63E-03	0	1.75E-02	2.99E-02	0.00E+00	7.72E-03	0.00E+00	8.19E-04	0.00E+00	6.19E-02	4.00E+01	1.55E-03	8.00E+01	7.74E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.94E-02	3.93E-05	0.00E+00	0.2131325	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-01	5.07E+02	4.99E-04	1.13E+03	2.24E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.57E-03	0.00E+00	0.00E+00	0.0246986	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-02	5.07E+02	5.77E-05	1.13E+03	2.59E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.07E-08	0	0.00E+00	6.67E-06	0.00E+00	7.98E-08	0.00E+00	2.21E-07	0.00E+00	7.04E-06	4.58E+00	1.54E-06	9.16E+00	7.69E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.33E-07	0	0.00E+00	2.18E-05	0.00E+00	2.73E-07	0.00E+00	7.28E-07	0.00E+00	2.31E-05	2.40E-01	9.61E-05	2.40E+00	9.61E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-04	0	0.00E+00	9.41E-03	0.00E+00	1.87E-04	0.00E+00	3.21E-04	0.00E+00	1.00E-02	2.40E-01	4.17E-02	2.40E+00	4.17E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.19E-05	0	0.00E+00	1.03E-04	NA	4.36E-02	0.00E+00	1.26E-05	0.00E+00	4.38E-02	8.50E+00	5.15E-03	2.55E+01	1.72E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	3.11E-04	1.55E-04	0	1.50E-02	2.01E-03	0.00E+00	3.04E-03	0.00E+00	8.34E-05	0.00E+00	2.06E-02	2.00E-01	1.03E-01	3.30E-01	6.24E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.38E-03	0	0.00E+00	5.01E-03	0.00E+00	4.84E-02	0.00E+00	2.13E-03	0.00E+00	6.09E-02	2.63E+02	2.32E-04	7.89E+02	7.72E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.23E-01	5.75E-03	5.38E-02	2.2851722	2.59E-02	1.73E-01	0.00E+00	4.85E-01	0.00E+00	2.13E-02	0.00E+00	3.47E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	2.54E-04	0.00E+00	0	1.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	7.40E-03	1.69E+00	7.40E-02	1.69E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.05E-07	0	0.00E+00	1.02E-05	0.00E+00	4.18E-08	0.00E+00	3.28E-07	0.00E+00	1.07E-05	4.58E+00	2.33E-06	9.16E+00	1.16E-06
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.17E-03	0.00E+00	5.99E-03	0.0117436	0.00E+00	2.70E-03	0.00E+00	9.25E-04	0.00E+00	1.17E-04	0.00E+00	2.36E-02	2.10E-01	1.13E-01	2.10E+00	1.13E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	1.33E-02	1.99E-02	0	2.77E-01	1.02E-01	0.00E+00	7.53E-01	0.00E+00	1.31E-02	0.00E+00	1.18E+00	1.60E+02	7.36E-03	3.20E+02	3.68E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-05	5.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.7E-04	5.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.7E-03	7.7E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	5.0E-04	5.4E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper

Table O-85
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
										----------Unitless----------						mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.68E-09	0.00E+00	5.52E-08	0	0.00E+00	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	1.00E-06	9.49E+00	1.00E-05	9.49E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.98E-05	0	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	8.00E-01	2.98E-03	4.00E+00	5.96E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	5.79E-05	0	0.00E+00	6.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03	8.00E-01	8.76E-03	4.00E+00	1.75E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.55E-05	0	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	8.00E-01	3.97E-03	4.00E+00	7.94E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.84E-06	0	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	2.00E-01	1.77E-03	1.00E+00	3.54E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.14E-06	0	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	4.58E+00	1.37E-04	9.16E+00	6.86E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.34E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E+00	1.93E+00	6.97E-01	1.93E+01	6.97E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.93E-03	0	0.00E+00	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-02	1.25E-01	6.20E-01	1.25E+00	6.20E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.24E-05	0	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03	6.85E-02	7.59E-02	6.85E-01	7.59E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.92E-05	0	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	6.80E-02	3.45E-02	6.80E-01	3.45E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.64E-05	0	0.00E+00	7.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-03	6.80E-02	1.04E-01	6.80E-01	1.04E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	8.69E-05	0	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	6.80E-02	1.69E-01	6.80E-01	1.69E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-05	0	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	6.80E-02	2.00E-02	6.80E-01	2.00E-03
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.49E-04	0	0.00E+00	3.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-02	4.00E+00	9.00E-03	4.00E+01	9.00E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	8.11E-01	9.40E-01	9.40E-01	9.22E-01	9.22E-01	5.47E-04	0.00E+00	5.52E-03	0	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-01	1.00E+00	1.23E-01	1.00E+01	1.23E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.70E-06	0	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	4.58E+00	7.20E-05	9.16E+00	3.60E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.60E-01	0	0.00E+00	2.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-01	2.74E+03	6.70E-05	2.74E+04	6.70E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.27E-03	0	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	3.28E+00	7.94E-04	1.31E+01	1.98E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-06	0	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	4.58E+00	9.40E-05	9.16E+00	4.70E-05
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	5.86E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01	2.60E-03	0.00E+00	1.03E-01	0	0.00E+00	1.05E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00	1.17E+01	9.86E-02	1.51E+01	7.62E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-06	0	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	2.00E-02	1.56E-02	2.00E-01	1.56E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.87E-06	0	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	9.20E-02	4.98E-03	9.20E-01	4.98E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.30E-06	0	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	8.00E-02	4.96E-03	2.90E-01	1.37E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.31E+00	0.00E+00	1.40E+02	0	0.00E+00	8.43E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	1.14E-03	0.00E+00	2.11E+00	0	NA	3.00E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	8.00E+00	3.02E-01	8.00E+01	3.02E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.00E-01	0.00E+00	1.34E+01	0	0.00E+00	2.27E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E+01	8.80E+01	4.12E-01	2.84E+02	1.28E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	7.94E-04	0	0.00E+00	4.51E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	1.32E+01	3.48E-03	3.96E+01	1.16E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.79E-06	0	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	7.00E-02	8.61E-03	7.00E-01	8.61E-04
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.72E-02	6.72E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.54E-02	0	0.00E+00	3.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E+00	4.00E+01	8.92E-02	8.00E+01	4.46E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.91E-01	0.00E+00	2.60E-02	0	0.00E+00	2.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-01	5.07E+02	8.78E-04	1.13E+03	3.94E-04
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.55E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-02	5.07E+02	3.06E-05	1.13E+03	1.37E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.56E-06	0	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	4.58E+00	6.64E-05	9.16E+00	3.32E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-05	0	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	2.40E-01	6.19E-03	2.40E+00	6.19E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.43E-03	0	0.00E+00	8.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-01	2.40E-01	3.57E+00	2.40E+00	3.57E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.26E-03	0	0.00E+00	1.10E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	8.50E+00	1.45E-03	2.55E+01	4.82E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	4.99E-01	4.62E-01	4.62E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	5.55E-03	0	0.00E+00	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-02	2.00E-01	2.82E-01	3.30E-01	1.71E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.99E-01	0	0.00E+00	4.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-01	2.63E+02	2.38E-03	7.89E+02	7.92E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.34E+00	0.00E+00	2.88E+01	0	0.00E+00	2.52E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E+02	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-06	0	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	4.58E+00	1.18E-04	9.16E+00	5.89E-05
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	7.33E-03	0.00E+00	2.15E-01	0	0.00E+00	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-01	2.10E-01	1.75E+00	2.10E+00	1.75E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.03E-01	8.03E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	8.33E-01	0	0.00E+00	3.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E+00	1.60E+02	2.44E-02	3.20E+02	1.22E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.9E-04	2.4E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.6E-02	3.1E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.0E-01	4.0E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.2E-02	2.4E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.

Table O-86
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.35E-09	0.00E+00	4.44E-08	0	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	1.00E-06	3.81E+00	1.00E-05	3.81E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.15E-05	0	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04	8.00E-01	1.01E-03	4.00E+00	2.01E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	4.31E-05	0	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	8.00E-01	3.78E-03	4.00E+00	7.56E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.54E-05	0	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	8.00E-01	1.39E-03	4.00E+00	2.78E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.53E-06	0	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	2.00E-01	9.13E-04	1.00E+00	1.83E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.35E-06	0	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	4.58E+00	6.73E-05	9.16E+00	3.36E-05
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.14E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-01	1.93E+00	4.74E-01	1.93E+01	4.74E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	7.15E-03	0	0.00E+00	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-02	1.25E-01	1.89E-01	1.25E+00	1.89E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.54E-05	0	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	6.85E-02	3.67E-02	6.85E-01	3.67E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.63E-05	0	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	6.80E-02	1.71E-02	6.80E-01	1.71E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.57E-05	0	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	6.80E-02	4.90E-02	6.80E-01	4.90E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.64E-05	0	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03	6.80E-02	6.35E-02	6.80E-01	6.35E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.18E-05	0	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	6.80E-02	1.09E-02	6.80E-01	1.09E-03
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-04	0	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	4.00E+00	4.58E-03	4.00E+01	4.58E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	8.80E-01	1.03E+00	1.03E+00	6.72E-01	6.72E-01	4.59E-04	0.00E+00	4.46E-03	0	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	1.00E+00	1.13E-01	1.00E+01	1.13E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.01E-06	0	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	4.58E+00	4.66E-05	9.16E+00	2.33E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.50E-01	0	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-01	2.74E+03	6.27E-05	2.74E+04	6.27E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.13E-03	0	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	2.44E-03	7.43E-04	1.31E+01	1.85E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-06	0	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	4.58E+00	4.74E-05	9.16E+00	2.37E-05
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	6.44E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	2.05E-03	0.00E+00	9.05E-02	0	0.00E+00	1.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	1.17E+01	9.49E-02	1.51E+01	7.33E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.46E-06	0	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	2.00E-02	8.45E-03	2.00E-01	8.45E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.69E-06	0	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	9.20E-02	2.76E-03	9.20E-01	2.76E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	8.00E-02	2.49E-03	2.90E-01	6.86E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	9.19E-01	0.00E+00	1.27E+02	0	0.00E+00	3.52E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	9.00E-04	0.00E+00	1.68E+00	0	NA	2.38E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+00	8.00E+00	2.40E-01	8.00E+01	2.40E-02
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.97E-02	0.00E+00	1.16E+01	0	0.00E+00	2.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E+01	8.80E+01	3.61E-01	2.84E+02	1.12E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	7.08E-04	0	0.00E+00	4.34E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-02	1.32E+01	3.34E-03	3.96E+01	1.11E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.01E-06	0	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	7.00E-02	4.18E-03	7.00E-01	4.18E-04
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.64E-02	0	0.00E+00	7.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-01	4.00E+01	1.98E-02	8.00E+01	9.88E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.05E-01	0.00E+00	1.57E-02	0	0.00E+00	3.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-01	5.07E+02	3.11E-04	1.13E+03	1.39E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.22E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	5.07E+02	2.41E-05	1.13E+03	1.08E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.38E-06	0	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	4.58E+00	3.58E-05	9.16E+00	1.79E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.78E-06	0	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	2.40E-01	2.21E-03	2.40E+00	2.21E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.30E-03	0	0.00E+00	3.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-01	2.40E-01	1.48E+00	2.40E+00	1.48E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	6.94E-04	0	0.00E+00	1.60E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	8.50E+00	2.70E-04	2.55E+01	9.00E-05
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	5.17E-03	0	0.00E+00	4.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-02	2.00E-01	2.67E-01	3.30E-01	1.62E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.81E-01	0	0.00E+00	1.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	2.63E+02	1.15E-03	7.89E+02	3.84E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.13E+00	0.00E+00	1.92E+01	0	0.00E+00	4.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.68E-06	0	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	4.58E+00	5.70E-05	9.16E+00	2.85E-05
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.81E-03	0.00E+00	2.02E-01	0	0.00E+00	6.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-01	2.10E-01	1.30E+00	2.10E+00	1.30E-01
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	6.69E-01	0	0.00E+00	2.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E+00	1.60E+02	1.96E-02	3.20E+02	9.82E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.5E-04	1.3E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.2E-03	1.2E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.8E-01	1.8E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.2E-02	1.3E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
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Table O-87
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
														Unitless		mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.03E-09	0.00E+00	3.74E-09	0	0.00E+00	8.90E-08	0.00E+00	7.28E-11	0.00E+00	5.69E-09	1.22E-09	1.01E-07	1.00E-06	1.01E-01	1.00E-05	1.01E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.34E-06	0	0.00E+00	2.23E-05	0.00E+00	4.60E-07	0.00E+00	3.86E-05	8.28E-06	7.10E-05	8.00E-01	8.87E-05	4.00E+00	1.77E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.93E-06	0	0.00E+00	6.55E-05	0.00E+00	1.04E-05	0.00E+00	9.74E-05	2.09E-05	1.98E-04	8.00E-01	2.48E-04	4.00E+00	4.96E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.73E-06	0	0.00E+00	2.97E-05	0.00E+00	5.91E-07	0.00E+00	7.17E-05	1.54E-05	1.19E-04	8.00E-01	1.49E-04	4.00E+00	2.98E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.93E-07	0	0.00E+00	3.32E-06	0.00E+00	5.59E-09	0.00E+00	5.55E-06	1.19E-06	1.03E-05	2.00E-01	5.13E-05	1.00E+00	1.03E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.49E-07	0	0.00E+00	5.88E-06	0.00E+00	6.02E-08	0.00E+00	1.00E-05	2.15E-06	1.85E-05	4.58E+00	4.03E-06	9.16E+00	2.02E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.16E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-01	1.93E+00	2.67E-01	1.93E+01	2.67E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.38E-04	0	0.00E+00	6.56E-04	0.00E+00	1.61E-04	0.00E+00	2.23E-03	4.78E-04	4.07E-03	1.25E-01	3.25E-02	1.25E+00	3.25E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.88E-06	0	0.00E+00	4.87E-05	0.00E+00	2.01E-06	0.00E+00	8.28E-05	1.77E-05	1.54E-04	6.85E-02	2.25E-03	6.85E-01	2.25E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.30E-06	0	0.00E+00	2.20E-05	0.00E+00	5.62E-08	0.00E+00	3.74E-05	8.01E-06	6.87E-05	6.80E-02	1.01E-03	6.90E-01	9.96E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	3.83E-06	0	0.00E+00	6.64E-05	0.00E+00	1.45E-07	0.00E+00	1.01E-04	2.17E-05	1.94E-04	6.80E-02	2.85E-03	6.90E-01	2.80E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	5.90E-06	0	0.00E+00	1.08E-04	0.00E+00	1.15E-07	0.00E+00	2.82E-04	6.05E-05	4.56E-04	6.80E-02	6.71E-03	6.90E-01	6.61E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.50E-07	0	0.00E+00	1.27E-05	0.00E+00	1.91E-06	0.00E+00	2.44E-05	5.24E-06	4.52E-05	6.80E-02	6.64E-04	6.90E-01	6.55E-05
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.37E-05	0	0.00E+00	3.36E-04	0.00E+00	3.26E-04	0.00E+00	6.82E-04	1.46E-04	1.51E-03	4.00E+00	3.78E-04	4.00E+01	3.78E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	8.11E-01	9.40E-01	9.40E-01	9.22E-01	9.22E-01	2.10E-04	0.00E+00	3.74E-04	0	0.00E+00	1.10E-03	0.00E+00	1.51E-03	0.00E+00	8.62E-03	1.85E-03	1.37E-02	1.00E+00	1.37E-02	1.00E+01	1.37E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-07	0	0.00E+00	3.08E-06	0.00E+00	3.16E-08	0.00E+00	5.26E-06	1.13E-06	9.69E-06	4.58E+00	2.12E-06	9.16E+00	1.06E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.09E-02	0	0.00E+00	2.21E-04	0.00E+00	2.23E-02	0.00E+00	9.03E-02	1.94E-02	1.43E-01	2.74E+03	5.23E-05	2.74E+04	5.23E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.54E-04	0	0.00E+00	3.13E-06	0.00E+00	3.17E-04	0.00E+00	1.28E-03	2.75E-04	2.03E-03	3.28E+00	6.19E-04	1.31E+01	1.55E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.39E-07	0	0.00E+00	4.03E-06	0.00E+00	4.12E-08	0.00E+00	6.87E-06	1.47E-06	1.27E-05	4.58E+00	2.76E-06	9.16E+00	1.38E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	5.86E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01	9.97E-04	0.00E+00	6.97E-03	0	0.00E+00	9.90E-03	0.00E+00	1.72E-02	0.00E+00	2.60E-02	5.57E-03	6.67E-02	1.17E+01	5.70E-03	1.51E+01	4.40E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.79E-07	0	0.00E+00	2.92E-06	0.00E+00	1.25E-06	0.00E+00	5.14E-06	1.10E-06	1.06E-05	2.00E-02	5.29E-04	2.00E-01	5.29E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	2.62E-07	0	0.00E+00	4.29E-06	0.00E+00	4.29E-08	0.00E+00	7.97E-06	1.71E-06	1.43E-05	9.20E-02	1.55E-04	9.20E-01	1.55E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.24E-07	0	0.00E+00	3.71E-06	0.00E+00	1.81E-08	0.00E+00	6.43E-06	1.38E-06	1.18E-05	8.00E-02	1.47E-04	2.90E-01	4.06E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.05E-01	0.00E+00	9.53E+00	0	0.00E+00	7.95E-01	0.00E+00	1.63E-01	0.00E+00	4.92E-01	1.05E-01	1.16E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	4.37E-04	0.00E+00	1.43E-01	0	NA	2.83E-03	NA	1.78E-02	0.00E+00	4.76E-02	1.02E-02	2.22E-01	8.00E+00	2.78E-02	8.00E+01	2.78E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.84E-02	0.00E+00	9.12E-01	0	0.00E+00	2.14E-01	0.00E+00	3.90E-01	0.00E+00	2.18E-01	4.67E-02	1.82E+00	8.80E+01	2.07E-02	2.84E+02	6.40E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	5.39E-05	0	0.00E+00	4.25E-04	NA	3.17E-04	0.00E+00	1.38E-04	2.97E-05	9.64E-04	1.00E+00	9.64E-04	3.00E+00	3.21E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.25E-07	0	0.00E+00	5.64E-06	0.00E+00	4.78E-08	0.00E+00	9.35E-06	2.00E-06	1.74E-05	7.00E-02	2.48E-04	7.00E-01	2.48E-05
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.72E-02	6.72E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	6.47E-03	0	0.00E+00	3.27E-02	0.00E+00	1.86E-03	0.00E+00	1.63E-02	3.50E-03	6.09E-02	4.00E+01	1.52E-03	8.00E+01	7.61E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.32E-02	0.00E+00	1.77E-03	0	0.00E+00	2.15E-03	0.00E+00	2.64E-03	0.00E+00	7.32E-03	1.57E-03	8.87E-02	5.07E+02	1.75E-04	1.13E+03	7.85E-05
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.96E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-03	5.07E+02	1.18E-05	1.13E+03	5.28E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.74E-07	0	0.00E+00	2.84E-06	0.00E+00	1.96E-08	0.00E+00	5.00E-06	1.07E-06	9.11E-06	4.58E+00	1.99E-06	9.16E+00	9.94E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.55E-07	0	0.00E+00	1.39E-05	0.00E+00	1.22E-07	0.00E+00	2.46E-05	5.27E-06	4.47E-05	2.40E-01	1.86E-04	2.40E+00	1.86E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.04E-04	0	0.00E+00	8.01E-03	0.00E+00	1.52E-04	0.00E+00	1.45E-02	3.11E-03	2.63E-02	2.40E-01	1.09E-01	2.40E+00	1.09E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.54E-05	0	0.00E+00	1.04E-04	NA	1.09E-02	0.00E+00	3.54E-04	7.59E-05	1.16E-02	8.50E+00	1.36E-03	2.55E+01	4.53E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	4.99E-01	4.62E-01	4.62E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	3.76E-04	0	0.00E+00	4.79E-04	0.00E+00	7.44E-04	0.00E+00	1.83E-03	3.92E-04	3.82E-03	2.00E-01	1.91E-02	3.30E-01	1.16E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.35E-02	0	0.00E+00	4.02E-03	0.00E+00	2.02E-02	0.00E+00	5.60E-02	1.20E-02	1.06E-01	2.63E+02	4.02E-04	7.89E+02	1.34E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.14E-01	0.00E+00	1.95E+00	0	0.00E+00	2.38E+00	0.00E+00	2.92E+00	0.00E+00	8.09E+00	1.73E+00	1.76E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.99E-07	0	0.00E+00	5.04E-06	0.00E+00	5.16E-08	0.00E+00	8.61E-06	1.84E-06	1.58E-05	4.58E+00	3.46E-06	9.16E+00	1.73E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.81E-03	0.00E+00	1.46E-02	0	0.00E+00	1.37E-03	0.00E+00	2.49E-04	0.00E+00	2.15E-03	4.61E-04	2.16E-02	2.10E-01	1.03E-01	2.10E+00	1.03E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.03E-01	8.03E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	5.65E-02	0	0.00E+00	2.90E-02	0.00E+00	1.94E-01	0.00E+00	6.36E-01	1.36E-01	1.05E+00	1.60E+02	6.58E-03	3.20E+02	3.29E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.4E-05		7.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.9E-04		9.7E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-02		1.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00		0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	7.4E-04		7.9E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ

Table O-88
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	9.01E-10	0.00E+00	3.01E-09	0	0.00E+00	3.55E-08	0.00E+00	5.00E-11	0.00E+00	3.56E-09	7.62E-10	4.38E-08	1.00E-06	4.38E-02	1.00E-05	4.38E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.82E-07	0	0.00E+00	7.48E-06	0.00E+00	9.36E-08	0.00E+00	1.71E-05	3.66E-06	2.91E-05	8.00E-01	3.64E-05	4.00E+00	7.28E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.92E-06	0	0.00E+00	2.81E-05	0.00E+00	1.70E-06	0.00E+00	6.87E-05	1.47E-05	1.16E-04	8.00E-01	1.45E-04	4.00E+00	2.90E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.04E-06	0	0.00E+00	1.03E-05	0.00E+00	1.25E-07	0.00E+00	2.31E-05	4.94E-06	3.95E-05	8.00E-01	4.94E-05	4.00E+00	9.88E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.71E-07	0	0.00E+00	1.70E-06	0.00E+00	3.57E-09	0.00E+00	3.75E-06	8.04E-07	6.43E-06	2.00E-01	3.21E-05	1.00E+00	6.43E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.95E-07	0	0.00E+00	2.87E-06	0.00E+00	1.18E-08	0.00E+00	6.45E-06	1.38E-06	1.10E-05	4.58E+00	2.40E-06	9.16E+00	1.20E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.51E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-01	1.93E+00	1.82E-01	1.93E+01	1.82E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.85E-04	0	0.00E+00	1.56E-04	0.00E+00	7.68E-05	0.00E+00	1.34E-03	2.87E-04	2.34E-03	1.25E-01	1.88E-02	1.25E+00	1.88E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.40E-06	0	0.00E+00	2.34E-05	0.00E+00	8.61E-08	0.00E+00	5.25E-05	1.12E-05	8.96E-05	6.85E-02	1.31E-03	6.85E-01	1.31E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.11E-06	0	0.00E+00	1.08E-05	0.00E+00	3.98E-08	0.00E+00	2.43E-05	5.20E-06	4.14E-05	6.80E-02	6.09E-04	6.90E-01	6.00E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	3.10E-06	0	0.00E+00	3.10E-05	0.00E+00	4.75E-08	0.00E+00	3.85E-05	8.25E-06	8.09E-05	6.80E-02	1.19E-03	6.90E-01	1.17E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.82E-06	0	0.00E+00	4.02E-05	0.00E+00	1.05E-08	0.00E+00	1.59E-04	3.49E-03	2.38E-04	6.80E-02	3.49E-03	6.90E-01	3.44E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.99E-07	0	0.00E+00	6.90E-06	0.00E+00	1.80E-06	0.00E+00	1.75E-05	3.74E-06	3.07E-05	6.80E-02	4.52E-04	6.90E-01	4.45E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-05	0	0.00E+00	1.70E-04	0.00E+00	2.86E-04	0.00E+00	4.54E-04	9.73E-05	1.03E-03	4.00E+00	2.57E-04	4.00E+01	2.57E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	8.80E-01	1.03E+00	1.03E+00	6.72E-01	6.72E-01	1.76E-04	0.00E+00	3.03E-04	0	0.00E+00	1.02E-03	0.00E+00	1.34E-03	0.00E+00	5.08E-03	1.09E-03	9.01E-03	1.00E+00	9.01E-03	1.00E+01	9.01E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.04E-07	0	0.00E+00	1.99E-06	0.00E+00	8.15E-09	0.00E+00	4.47E-06	9.57E-07	7.62E-06	4.58E+00	1.66E-06	9.16E+00	8.32E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.02E-02	0	0.00E+00	2.06E-04	0.00E+00	1.78E-03	0.00E+00	2.14E-02	4.60E-03	3.82E-02	2.74E+03	1.40E-05	2.74E+04	1.40E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.44E-04	0	0.00E+00	2.93E-06	0.00E+00	2.53E-05	0.00E+00	3.04E-04	6.52E-05	5.42E-04	3.28E+00	1.65E-04	1.31E+01	4.13E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-07	0	0.00E+00	2.02E-06	0.00E+00	8.30E-09	0.00E+00	4.55E-06	9.75E-07	7.76E-06	4.58E+00	1.69E-06	9.16E+00	8.47E-07
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	6.44E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	7.86E-04	0.00E+00	6.14E-03	0	0.00E+00	9.60E-03	0.00E+00	1.64E-02	0.00E+00	1.37E-02	2.95E-03	4.96E-02	1.17E+01	4.24E-03	1.51E+01	3.28E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.67E-07	0	0.00E+00	1.57E-06	0.00E+00	1.71E-08	0.00E+00	3.65E-06	7.82E-07	6.19E-06	2.00E-02	3.09E-04	2.00E-01	3.09E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.50E-07	0	0.00E+00	2.36E-06	0.00E+00	2.94E-08	0.00E+00	7.59E-06	1.63E-06	1.19E-05	9.20E-02	1.29E-04	9.20E-01	1.29E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.93E-07	0	0.00E+00	1.85E-06	0.00E+00	1.31E-08	0.00E+00	4.23E-06	9.06E-07	7.19E-06	8.00E-02	8.99E-05	2.90E-01	2.48E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.53E-01	0.00E+00	8.62E+00	0	0.00E+00	3.32E-01	0.00E+00	1.48E-01	0.00E+00	3.78E-01	8.11E-02	9.91E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	3.45E-04	0.00E+00	1.14E-01	0	NA	2.25E-03	NA	1.57E-02	0.00E+00	3.31E-02	7.10E-03	1.72E-01	8.00E+00	2.16E-02	8.00E+01	2.16E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.67E-02	0.00E+00	7.86E-01	0	0.00E+00	1.90E-01	0.00E+00	2.66E-01	0.00E+00	1.49E-01	3.19E-02	1.45E+00	8.80E+01	1.65E-02	2.84E+02	5.10E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	4.80E-05	0	0.00E+00	4.09E-04	NA	2.98E-04	0.00E+00	1.10E-04	2.35E-05	8.89E-04	1.00E+00	8.89E-04	3.00E+00	2.96E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-07	0	0.00E+00	2.72E-06	0.00E+00	4.00E-09	0.00E+00	5.95E-06	1.27E-06	1.02E-05	7.00E-02	1.46E-04	7.00E-01	1.46E-05
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	5.86E-03	0	0.00E+00	6.64E-03	0.00E+00	1.73E-03	0.00E+00	1.27E-02	2.73E-03	2.97E-02	4.00E+01	7.42E-04	8.00E+01	3.71E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.04E-02	0.00E+00	1.07E-03	0	0.00E+00	3.43E-04	0.00E+00	9.60E-04	0.00E+00	2.95E-03	6.33E-04	4.64E-02	5.07E+02	9.15E-05	1.13E+03	4.11E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.69E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-03	5.07E+02	9.24E-06	1.13E+03	4.15E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.62E-07	0	0.00E+00	1.52E-06	0.00E+00	1.82E-08	0.00E+00	3.54E-06	7.58E-07	6.00E-06	4.58E+00	1.31E-06	9.16E+00	6.55E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.28E-07	0	0.00E+00	4.94E-06	0.00E+00	6.19E-08	0.00E+00	1.15E-05	2.47E-06	1.95E-05	2.40E-01	8.14E-05	2.40E+00	8.14E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.60E-04	0	0.00E+00	3.29E-03	0.00E+00	6.55E-05	0.00E+00	7.87E-03	1.69E-03	1.33E-02	2.40E-01	5.53E-02	2.40E+00	5.53E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.71E-05	0	0.00E+00	1.51E-05	NA	7.70E-03	0.00E+00	1.30E-04	2.79E-05	7.92E-03	8.50E+00	9.32E-04	2.55E+01	3.11E-04
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	3.51E-04	0	0.00E+00	4.55E-04	0.00E+00	6.89E-04	0.00E+00	1.32E-03	2.83E-04	3.10E-03	2.00E-01	1.55E-02	3.30E-01	9.40E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.23E-02	0	0.00E+00	1.15E-03	0.00E+00	1.11E-02	0.00E+00	3.40E-02	7.29E-03	6.58E-02	2.63E+02	2.50E-04	7.89E+02	8.34E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.34E-01	0.00E+00	1.30E+00	0	0.00E+00	4.19E-01	0.00E+00	1.17E+00	0.00E+00	3.61E+00	7.73E-01	7.71E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.50E-07	0	0.00E+00	2.43E-06	0.00E+00	9.96E-09	0.00E+00	5.46E-06	1.17E-06	9.32E-06	4.58E+00	2.03E-06	9.16E+00	1.02E-06
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.23E-03	0.00E+00	1.37E-02	0	0.00E+00	6.16E-04	0.00E+00	2.11E-04	0.00E+00	1.88E-03	4.02E-04	1.90E-02	2.10E-01	9.07E-02	2.10E+00	9.07E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	4.54E-02	0	0.00E+00	2.33E-02	0.00E+00	1.72E-01	0.00E+00	2.09E-01	4.47E-02	4.94E-01	1.60E+02	3.09E-03	3.20E+02	1.54E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	9.1E-06	4.6E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.3E-04	4.6E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.1E-03	7.0E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	4.7E-04	5.0E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range

Table O-89
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.18E-09	6.11E-08	0.00E+00	0	0.00E+00	0.00E+00	1.33E-09	1.32E-10	1.33E-09	0.00E+00	0.00E+00	6.51E-08	1.00E-06	6.51E-02	1.00E-05	6.51E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.22E-07	0.00E+00	0.00E+00	0.00E+00	8.22E-07	8.00E-01	1.03E-06	4.00E+00	2.06E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	1.96E-05	8.00E-01	2.44E-05	4.00E+00	4.89E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	1.31E-06	8.00E-01	1.64E-06	4.00E+00	3.27E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	9.30E-09	0.00E+00	0.00E+00	0.00E+00	9.30E-09	2.00E-01	4.65E-08	1.00E+00	9.30E-09
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	1.11E-07	4.58E+00	2.43E-08	9.16E+00	1.21E-08
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.93E-01	6.68E+01	0.00E+00	0	0.00E+00	0.00E+00	7.36E-01	0.00E+00	7.36E-01	0.00E+00	0.00E+00	6.89E+01	1.93E+00	3.57E+01	1.93E+01	3.57E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	3.27E-04	1.25E-01	2.62E-03	1.25E+00	2.62E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	3.67E-06	6.85E-02	5.36E-05	6.85E-01	5.36E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.05E-07	0.00E+00	0.00E+00	0.00E+00	1.05E-07	6.80E-02	1.55E-06	6.80E-01	1.55E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.67E-07	0.00E+00	0.00E+00	0.00E+00	2.67E-07	6.80E-02	3.92E-06	6.80E-01	3.92E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.49E-07	0.00E+00	0.00E+00	0.00E+00	2.49E-07	6.80E-02	3.66E-06	6.80E-01	3.66E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.28E-06	0.00E+00	0.00E+00	0.00E+00	3.28E-06	6.80E-02	4.82E-05	6.80E-01	4.82E-06
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.12E-01	0.00E+00	0	0.00E+00	NA	3.19E+00	0.00E+00	3.19E+00	0.00E+00	0.00E+00	7.29E+00	5.10E+00	1.43E+00	1.98E+01	3.68E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	1.60E-03	4.00E+00	4.01E-04	4.00E+01	4.01E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	8.11E-01	9.22E-01	9.22E-01	2.42E-04	3.78E-03	0.00E+00	0	0.00E+00	0.00E+00	1.47E-02	2.68E-03	1.47E-02	0.00E+00	0.00E+00	3.60E-02	1.00E+00	3.60E-02	1.00E+01	3.60E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.55E-08	0.00E+00	0.00E+00	0.00E+00	5.55E-08	4.58E+00	1.21E-08	9.16E+00	6.05E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.25E-02	0.00E+00	0.00E+00	0.00E+00	4.25E-02	2.74E+03	1.55E-05	2.74E+04	1.55E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	6.03E-04	3.28E+00	1.84E-04	1.31E+01	4.59E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.32E-08	0.00E+00	0.00E+00	0.00E+00	7.32E-08	4.58E+00	1.60E-08	9.16E+00	7.99E-09
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.86E-01	1.49E-01	1.49E-01	1.15E-03	4.96E-02	0.00E+00	0	0.00E+00	0.00E+00	1.39E-01	3.13E-02	1.39E-01	0.00E+00	0.00E+00	3.61E-01	1.17E+01	3.08E-02	1.51E+01	2.38E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	2.23E-06	2.00E-02	1.12E-04	2.00E-01	1.12E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.72E-08	0.00E+00	0.00E+00	0.00E+00	7.72E-08	9.20E-02	8.39E-07	9.20E-01	8.39E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	3.05E-08	8.00E-02	3.81E-07	2.90E-01	1.05E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.80E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.94E-01	0.00E+00	0.00E+00	0.00E+00	8.75E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	4.21E-04	0.00E+00	0	0.00E+00	0.00E+00	2.84E-02	0.00E+00	2.84E-02	0.00E+00	0.00E+00	5.71E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	5.03E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	3.53E-02	NA	0.00E+00	0.00E+00	3.58E-02	8.00E+00	4.48E-03	8.00E+01	4.48E-04
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.41E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.86E-01	0.00E+00	0.00E+00	0.00E+00	7.30E-01	8.80E+01	8.30E-03	2.84E+02	2.57E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	5.88E-04	NA	0.00E+00	0.00E+00	5.88E-04	1.32E+01	4.45E-05	3.96E+01	1.48E-05
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	1.08E+00			0.00E+00	6.60E-04	0.00E+00	0	0.00E+00	NA	3.42E-03	NA	3.42E-03	0.00E+00	0.00E+00	7.50E-03	3.20E-02	2.34E-01	1.60E-01	4.69E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.60E-08	0.00E+00	0.00E+00	0.00E+00	8.60E-08	7.00E-02	1.23E-06	7.00E-01	1.23E-07
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.21E-02	1.01E-01	1.01E-01	0.00E+00	6.43E-02	0.00E+00	0	0.00E+00	0.00E+00	1.91E-02	3.47E-03	1.91E-02	0.00E+00	0.00E+00	1.06E-01	4.00E+01	2.65E-03	8.00E+01	1.33E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.42E-02	8.94E-04	0.00E+00	0	0.00E+00	0.00E+00	1.50E-03	0.00E+00	1.50E-03	0.00E+00	0.00E+00	8.81E-02	5.07E+02	1.74E-04	1.13E+03	7.80E-05
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.86E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	5.07E+02	1.35E-05	1.13E+03	6.07E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	3.40E-08	4.58E+00	7.42E-09	9.16E+00	3.71E-09
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.17E-07	0.00E+00	0.00E+00	0.00E+00	2.17E-07	2.40E-01	9.03E-07	2.40E+00	9.03E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	2.19E-04	2.40E-01	9.11E-04	2.40E+00	9.11E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	3.86E-02	0.00E+00	0.00E+00	0.00E+00	3.86E-02	8.50E+00	4.54E-03	2.55E+01	1.51E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.99E-01	1.95E-01	1.95E-01	0.00E+00	5.97E-03	0.00E+00	0	0.00E+00	0.00E+00	1.43E-02	1.40E-03	1.43E-02	0.00E+00	0.00E+00	3.59E-02	2.00E-01	1.80E-01	3.30E-01	1.09E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.66E-02	0.00E+00	0.00E+00	0.00E+00	3.66E-02	2.63E+02	1.39E-04	7.89E+02	4.64E-05
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.92E-01	1.38E-01	0.00E+00	0	0.00E+00	0.00E+00	2.31E-01	5.90E-01	2.31E-01	0.00E+00	0.00E+00	1.78E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	4.91E-03	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	7.40E-03	6.63E-01	7.40E-02	6.63E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.98E-08	0.00E+00	0.00E+00	0.00E+00	8.98E-08	4.58E+00	1.96E-08	9.16E+00	9.80E-09
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.23E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	3.68E-03	2.10E-01	1.75E-02	2.10E+00	1.75E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	9.78E-01	4.51E-01	4.51E-01	0.00E+00	2.63E-01	0.00E+00	0	0.00E+00	0.00E+00	1.23E+00	3.49E-01	1.23E+00	0.00E+00	0.00E+00	3.08E+00	1.60E+02	1.92E-02	3.20E+02	9.61E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	7.9E-08	4.0E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.7E-05	5.4E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.1E-04	1.1E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.1E-04	1.1E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EP

Table O-90
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.04E-09	3.85E-08	0.00E+00	0	0.00E+00	0.00E+00	7.15E-10	9.04E-11	7.15E-10	0.00E+00	0.00E+00	4.11E-08	1.00E-06	4.11E-02	1.00E-05	4.11E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.64E-07	0.00E+00	0.00E+00	0.00E+00	1.64E-07	8.00E-01	2.05E-07	4.00E+00	4.11E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	0.00E+00	3.09E-06	8.00E-01	3.87E-06	4.00E+00	7.73E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.19E-07	0.00E+00	0.00E+00	0.00E+00	2.19E-07	8.00E-01	2.74E-07	4.00E+00	5.48E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.27E-09	0.00E+00	0.00E+00	0.00E+00	6.27E-09	2.00E-01	3.14E-08	1.00E+00	6.27E-09
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	2.16E-08	4.58E+00	4.71E-09	9.16E+00	2.35E-09
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.04E-01	5.58E+01	0.00E+00	0	0.00E+00	0.00E+00	4.00E-01	0.00E+00	4.00E-01	0.00E+00	0.00E+00	5.70E+01	1.93E+00	2.95E+01	1.93E+01	2.95E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	1.38E-04	1.25E-01	1.11E-03	1.25E+00	1.11E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	0.00E+00	1.57E-07	6.85E-02	2.29E-06	6.85E-01	2.29E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.43E-08	0.00E+00	0.00E+00	0.00E+00	7.43E-08	6.80E-02	1.09E-06	6.80E-01	1.09E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.70E-08	0.00E+00	0.00E+00	0.00E+00	8.70E-08	6.80E-02	1.28E-06	6.80E-01	1.28E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	1.92E-08	6.80E-02	2.82E-07	6.80E-01	2.82E-08
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	0.00E+00	3.06E-06	6.80E-02	4.50E-05	6.80E-01	4.50E-06
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	8.14E-01	0.00E+00	0	0.00E+00	NA	2.84E+00	0.00E+00	2.84E+00	0.00E+00	6.50E+00	5.10E+00	1.28E+00	1.98E+01	3.28E-01	
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	1.20E-03	4.00E+00	3.01E-04	4.00E+01	3.01E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	8.80E-01	6.72E-01	6.72E-01	2.02E-04	3.15E-03	0.00E+00	0	0.00E+00	0.00E+00	1.33E-02	2.35E-03	1.33E-02	0.00E+00	0.00E+00	3.23E-02	1.00E+00	3.23E-02	1.00E+01	3.23E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	1.18E-08	4.58E+00	2.58E-09	9.16E+00	1.29E-09
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	3.27E-03	2.74E+03	1.19E-06	2.74E+04	1.19E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	4.64E-05	3.28E+00	1.41E-05	1.31E+01	3.53E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	1.45E-08	4.58E+00	3.17E-09	9.16E+00	1.58E-09
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.44E-01	8.97E-02	8.97E-02	9.04E-04	4.25E-02	0.00E+00	0	0.00E+00	0.00E+00	1.31E-01	2.98E-02	1.31E-01	0.00E+00	0.00E+00	3.35E-01	1.17E+01	2.87E-02	1.51E+01	2.22E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.03E-08	0.00E+00	0.00E+00	0.00E+00	3.03E-08	2.00E-02	1.51E-06	2.00E-01	1.51E-07
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.78E-08	0.00E+00	0.00E+00	0.00E+00	4.78E-08	9.20E-02	5.20E-07	9.20E-01	5.20E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	0.00E+00	2.25E-08	8.00E-02	2.81E-07	2.90E-01	7.76E-08
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.05E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.67E-01	0.00E+00	0.00E+00	0.00E+00	6.72E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	4.21E-04	0.00E+00	0	0.00E+00	0.00E+00	2.80E-02	0.00E+00	2.80E-02	0.00E+00	0.00E+00	5.64E-02	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	3.97E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	2.99E-02	NA	0.00E+00	0.00E+00	3.03E-02	8.00E+00	3.79E-03	8.00E+01	3.79E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.07E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.81E-01	0.00E+00	0.00E+00	0.00E+00	5.11E-01	8.80E+01	5.81E-03	2.84E+02	1.80E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	5.58E-04	NA	0.00E+00	0.00E+00	5.58E-04	1.32E+01	4.23E-05	3.96E+01	1.41E-05
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	1.15E+00			0.00E+00	5.75E-04	0.00E+00	0	0.00E+00	NA	3.18E-03	NA	3.18E-03	0.00E+00	0.00E+00	6.93E-03	3.20E-02	2.16E-01	1.60E-01	4.33E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.27E-09	0.00E+00	0.00E+00	0.00E+00	7.27E-09	7.00E-02	1.04E-07	7.00E-01	1.04E-08
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.43E-02	8.71E-02	8.71E-02	0.00E+00	5.60E-02	0.00E+00	0	0.00E+00	0.00E+00	1.72E-02	3.19E-03	1.72E-02	0.00E+00	0.00E+00	9.37E-02	4.00E+01	2.34E-03	8.00E+01	1.17E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.65E-02	6.55E-04	0.00E+00	0	0.00E+00	0.00E+00	6.58E-04	0.00E+00	6.58E-04	0.00E+00	0.00E+00	4.85E-02	5.07E+02	9.56E-05	1.13E+03	4.29E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.39E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03	5.07E+02	1.06E-05	1.13E+03	4.77E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.30E-08	0.00E+00	0.00E+00	0.00E+00	3.30E-08	4.58E+00	7.19E-09	9.16E+00	3.60E-09
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	1.13E-07	2.40E-01	4.71E-07	2.40E+00	4.71E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.72E-05	0.00E+00	0.00E+00	0.00E+00	7.72E-05	2.40E-01	3.22E-04	2.40E+00	3.22E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	1.80E-02	0.00E+00	0.00E+00	0.00E+00	1.80E-02	8.50E+00	2.12E-03	2.55E+01	7.07E-04
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.92E-01	1.51E-01	1.51E-01	0.00E+00	5.18E-03	0.00E+00	0	0.00E+00	0.00E+00	1.22E-02	1.26E-03	1.22E-02	0.00E+00	0.00E+00	3.08E-02	2.00E-01	1.54E-01	3.30E-01	9.34E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	0.00E+00	2.00E-02	2.63E+02	7.61E-05	7.89E+02	2.54E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.99E-01	9.57E-02	0.00E+00	0	0.00E+00	0.00E+00	9.62E-02	2.00E-01	9.62E-02	0.00E+00	0.00E+00	9.87E-01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	4.23E-03	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-03	7.40E-03	5.72E-01	7.40E-02	5.72E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	1.73E-08	4.58E+00	3.77E-09	9.16E+00	1.89E-09
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.56E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	2.94E-03	2.10E-01	1.40E-02	2.10E+00	1.40E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	1.05E+00	1.84E-01	1.84E-01	0.00E+00	2.22E-01	0.00E+00	0	0.00E+00	0.00E+00	1.12E+00	3.11E-01	1.12E+00	0.00E+00	0.00E+00	2.77E+00	1.60E+02	1.73E-02	3.20E+02	8.66E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.1E-08	1.1E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.3E-06	8.7E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	5.0E-05	5.0E-06
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.1E-06	2.1E-07

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/

Table O-91
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	3.55E-10	1.97E-09	0.00E+00	3.19E-05	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-10	3.20E-05	1.00E-06	3.20E+01	1.00E-05	3.20E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-06	1.38E-06	8.00E-01	1.72E-06	4.00E+00	3.45E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-06	3.65E-06	8.00E-01	4.56E-06	4.00E+00	9.12E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-06	3.16E-06	8.00E-01	3.95E-06	4.00E+00	7.91E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-07	1.84E-07	2.00E-01	9.20E-07	1.00E+00	1.84E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-07	3.70E-07	4.58E+00	8.08E-08	9.16E+00	4.04E-08
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.78E-01	2.15E+00	0.00E+00	4.04E-01	3.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+01	1.93E+00	2.07E+01	1.93E+01	2.07E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-05	9.04E-05	1.25E-01	7.23E-04	1.25E+00	7.23E-05
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-06	3.02E-06	6.85E-02	4.41E-05	6.85E-01	4.41E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-06	1.40E-06	6.80E-02	2.05E-05	6.90E-01	2.02E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06	3.73E-06	6.80E-02	5.48E-05	6.90E-01	5.40E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	1.22E-05	6.80E-02	1.80E-04	6.90E-01	1.77E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-07	8.36E-07	6.80E-02	1.23E-05	6.90E-01	1.21E-06
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.94E-02	0.00E+00	0.00E+00	5.08E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-01	5.10E+00	1.05E-01	1.98E+01	2.72E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-05	6.69E-05	4.00E+00	1.67E-05	4.00E+01	1.67E-06
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	7.24E-05	1.22E-04	0.00E+00	6.23E-02	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-04	6.65E-02	1.00E+00	6.65E-02	1.00E+01	6.65E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-07	1.84E-07	4.58E+00	4.03E-08	9.16E+00	2.01E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	3.43E-03	2.74E+03	1.25E-06	2.74E+04	1.25E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-05	4.88E-05	3.28E+00	1.49E-05	1.31E+01	3.71E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-07	2.44E-07	4.58E+00	5.32E-08	9.16E+00	2.66E-08
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	3.44E-04	1.60E-03	0.00E+00	1.07E+00	3.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	1.11E+00	1.17E+01	9.47E-02	1.51E+01	7.32E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-07	1.83E-07	2.00E-02	9.13E-06	2.00E-01	9.13E-07
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-07	2.86E-07	9.20E-02	3.11E-06	9.20E-01	3.11E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07	2.17E-07	8.00E-02	2.71E-06	2.90E-01	7.47E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.74E-01	0.00E+00	0.00E+00	9.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	9.20E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.35E-05	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.51E-04	0.00E+00	0.00E+00	1.19E-01	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	1.22E-01	8.00E+00	1.52E-02	8.00E+01	1.52E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.32E-02	0.00E+00	0.00E+00	1.40E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-03	1.40E+01	8.80E+01	1.59E-01	2.84E+02	4.92E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06	5.23E-06	1.00E+00	5.23E-06	3.00E+00	1.74E-06
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.13E-05	0.00E+00	0.00E+00	6.13E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	8.26E-05	1.50E-02	5.50E-03	2.50E-02	3.30E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-07	3.36E-07	7.00E-02	4.80E-06	7.00E-01	4.80E-07
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	2.07E-03	0.00E+00	0.00E+00	1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	2.12E-02	4.00E+01	5.29E-04	8.00E+01	2.64E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.52E-02	2.88E-05	0.00E+00	1.42E+01	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+01	5.07E+02	2.81E-02	1.13E+03	1.26E-02
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.06E-03	0.00E+00	0.00E+00	1.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00	5.07E+02	2.29E-03	1.13E+03	1.03E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-07	1.73E-07	4.58E+00	3.78E-08	9.16E+00	1.89E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-07	8.69E-07	2.40E-01	3.62E-06	2.40E+00	3.62E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-04	4.16E-04	2.40E-01	1.73E-03	2.40E+00	1.73E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-05	3.97E-05	8.50E+00	4.67E-06	2.55E+01	1.56E-06
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	1.92E-04	0.00E+00	0.00E+00	3.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	3.59E-03	2.00E-01	1.79E-02	3.30E-01	1.09E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	2.02E-03	2.63E+02	7.70E-06	7.89E+02	2.57E-06
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.77E-01	4.43E-03	0.00E+00	9.99E+01	3.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-02	1.00E+02	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.58E-04	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	7.40E-03	3.91E-01	7.40E-02	3.91E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-07	2.99E-07	4.58E+00	6.52E-08	9.16E+00	3.26E-08
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	9.70E-04	0.00E+00	0.00E+00	5.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	5.47E-01	2.10E-01	2.61E+00	2.10E+00	2.61E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	8.47E-03	0.00E+00	0.00E+00	2.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table O-92
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.29E-10	9.15E-10	0.00E+00	2.793E-06	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-11	2.81E-06	1.00E-06	2.81E+00	1.00E-05	2.81E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-07	4.42E-07	8.00E-01	5.52E-07	4.00E+00	1.10E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-06	1.84E-06	8.00E-01	2.30E-06	4.00E+00	4.60E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-07	5.97E-07	8.00E-01	7.46E-07	4.00E+00	1.49E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-08	9.72E-08	2.00E-01	4.86E-07	1.00E+00	9.72E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-07	1.74E-07	4.58E+00	3.80E-08	9.16E+00	1.90E-08
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.93E-02	1.32E+00	0.00E+00	0.2025714	2.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E+01	1.93E+00	1.27E+01	1.93E+01	1.27E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	3.55E-05	1.25E-01	2.84E-04	1.25E+00	2.84E-05
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-06	1.41E-06	6.85E-02	2.06E-05	6.85E-01	2.06E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-07	6.67E-07	6.80E-02	9.81E-06	6.90E-01	9.67E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-06	1.04E-06	6.80E-02	1.53E-05	6.90E-01	1.51E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	4.28E-06	6.80E-02	6.30E-05	6.90E-01	6.21E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-07	4.37E-07	6.80E-02	6.43E-06	6.90E-01	6.34E-07
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.93E-02	0.00E+00	0	3.35E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-01	5.10E+00	6.94E-02	1.98E+01	1.79E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	2.81E-05	4.00E+00	7.04E-06	4.00E+01	7.04E-07
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	4.48E-05	7.49E-05	0.00E+00	0.0271349	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	2.76E-02	1.00E+00	2.76E-02	1.00E+01	2.76E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-08	9.55E-08	4.58E+00	2.09E-08	9.16E+00	1.04E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	5.79E-04	2.74E+03	2.12E-07	2.74E+04	2.12E-08
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	8.22E-06	3.28E+00	2.51E-06	1.31E+01	6.26E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-07	1.17E-07	4.58E+00	2.56E-08	9.16E+00	1.28E-08
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	2.00E-04	1.01E-03	0.00E+00	0.1172962	6.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-04	1.25E-01	1.17E+01	1.07E-02	1.51E+01	8.25E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-08	9.49E-08	2.00E-02	4.74E-06	2.00E-01	4.74E-07
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-07	1.82E-07	9.20E-02	1.98E-06	9.20E-01	1.98E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-07	1.07E-07	8.00E-02	1.33E-06	2.90E-01	3.67E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.97E-02	0.00E+00	0.00E+00	11.834088	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	1.19E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	9.99E-06	0.00E+00	0	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	8.79E-05	0.00E+00	0.00E+00	0.0207722	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.69E-04	2.18E-02	8.00E+00	2.73E-03	8.00E+01	2.73E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.80E-03	0.00E+00	0.00E+00	0.8974769	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03	9.08E-01	8.80E+01	1.03E-02	2.84E+02	3.20E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.11E-06	3.11E-06	1.00E+00	3.11E-06	3.00E+00	1.04E-06
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.37E-05	0.00E+00	0	3.94E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.31E-05	1.50E-02	3.54E-03	2.50E-02	2.12E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-07	1.59E-07	7.00E-02	2.27E-06	7.00E-01	2.27E-07
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	1.33E-03	0.00E+00	0	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	4.16E-03	4.00E+01	1.04E-04	8.00E+01	5.21E-05
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-02	1.56E-05	0.00E+00	1.6333972	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E+00	5.07E+02	3.24E-03	1.13E+03	1.45E-03
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.19E-03	0.00E+00	0.00E+00	0.1892839	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	5.07E+02	3.76E-04	1.13E+03	1.69E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-08	9.42E-08	4.58E+00	2.06E-08	9.16E+00	1.03E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-07	3.10E-07	2.40E-01	1.29E-06	2.40E+00	1.29E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	1.37E-04	2.40E-01	5.69E-04	2.40E+00	5.69E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.37E-06	5.37E-06	8.50E+00	6.32E-07	2.55E+01	2.11E-07
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	1.23E-04	0.00E+00	0	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-05	2.29E-03	2.00E-01	1.14E-02	3.30E-01	6.93E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-04	9.06E-04	2.63E+02	3.44E-06	7.89E+02	1.15E-06
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.10E-01	2.27E-03	0.00E+00	17.513023	3.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-03	1.76E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.01E-04	0.00E+00	0	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	7.40E-03	2.49E-01	7.40E-02	2.49E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-07	1.39E-07	4.58E+00	3.04E-08	9.16E+00	1.52E-08
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.67E-04	0.00E+00	0.00E+00	0.0900002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-05	9.06E-02	2.10E-01	4.32E-01	2.10E+00	4.32E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	5.27E-03	0.00E+00	0	3.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03	5.01E-02	1.60E+02	3.13E-04	3.20E+02	1.57E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.4E-07	6.8E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.6E-06	7.2E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.2E-04	1.1E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	7.2E-06	7.7E-07

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EE

Table O-93
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							-----Unitless-----									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.93E-09	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	3.27E-09	1.00E-06	3.27E-03	1.00E-05	3.27E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	8.39E-06	8.00E-01	1.05E-05	4.00E+00	2.10E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-04	8.00E-01	2.49E-04	4.00E+00	4.99E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-05	8.00E-01	1.67E-05	4.00E+00	3.34E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	9.49E-08	0.00E+00	0.00E+00	0.00E+00	9.49E-08	2.00E-01	4.75E-07	1.00E+00	9.49E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	1.14E-06	4.58E+00	2.48E-07	9.16E+00	1.24E-07
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	9.65E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-01	1.93E+00	5.00E-01	1.93E+01	5.00E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	3.34E-03	1.25E-01	2.67E-02	1.25E+00	2.67E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	3.75E-05	6.85E-02	5.47E-04	6.85E-01	5.47E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	0.00E+00	1.07E-06	6.80E-02	1.58E-05	6.80E-01	1.58E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	2.72E-06	6.80E-02	4.00E-05	6.80E-01	4.00E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.54E-06	0.00E+00	0.00E+00	0.00E+00	2.54E-06	6.80E-02	3.74E-05	6.80E-01	3.74E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	3.35E-05	6.80E-02	4.92E-04	6.80E-01	4.92E-05
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	1.64E-02	4.00E+00	4.09E-03	4.00E+01	4.09E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	3.93E-04	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	2.77E-02	1.00E+00	2.77E-02	1.00E+01	2.77E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.66E-07	0.00E+00	0.00E+00	0.00E+00	5.66E-07	4.58E+00	1.24E-07	9.16E+00	6.18E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.34E-01	0.00E+00	0.00E+00	0.00E+00	4.34E-01	2.74E+03	1.58E-04	2.74E+04	1.58E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.16E-03	0.00E+00	0.00E+00	0.00E+00	6.16E-03	3.28E+00	1.88E-03	1.31E+01	4.69E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.47E-07	0.00E+00	0.00E+00	0.00E+00	7.47E-07	4.58E+00	1.63E-07	9.16E+00	8.16E-08
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.86E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.20E-01	0.00E+00	0.00E+00	0.00E+00	3.22E-01	1.17E+01	2.75E-02	1.51E+01	2.12E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-05	2.00E-02	1.14E-03	2.00E-01	1.14E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.88E-07	0.00E+00	0.00E+00	0.00E+00	7.88E-07	9.20E-02	8.56E-06	9.20E-01	8.56E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.11E-07	0.00E+00	0.00E+00	0.00E+00	3.11E-07	8.00E-02	3.89E-06	2.90E-01	1.07E-06
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	9.44E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	8.18E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	3.60E-01	0.00E+00	0.00E+00	0.00E+00	3.61E-01	8.00E+00	4.52E-02	8.00E+01	4.52E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.17E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E+00	8.80E+01	8.04E-02	2.84E+02	2.49E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	6.00E-03	0.00E+00	0.00E+00	0.00E+00	6.00E-03	1.32E+01	4.55E-04	3.96E+01	1.52E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	8.78E-07	0.00E+00	0.00E+00	0.00E+00	8.78E-07	7.00E-02	1.25E-05	7.00E-01	1.25E-06
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.54E-02	0.00E+00	0.00E+00	0.00E+00	3.54E-02	4.00E+01	8.84E-04	8.00E+01	4.42E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.37E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-01	5.07E+02	2.70E-04	1.13E+03	1.21E-04
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.11E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	5.07E+02	2.20E-05	1.13E+03	9.87E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.47E-07	0.00E+00	0.00E+00	0.00E+00	3.47E-07	4.58E+00	7.57E-08	9.16E+00	3.78E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	0.00E+00	2.21E-06	2.40E-01	9.22E-06	2.40E+00	9.22E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	2.23E-03	2.40E-01	9.29E-03	2.40E+00	9.29E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	3.94E-01	0.00E+00	0.00E+00	0.00E+00	3.94E-01	8.50E+00	4.63E-02	2.55E+01	1.54E-02
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	1.43E-02	2.00E-01	7.16E-02	3.30E-01	4.34E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.74E-01	0.00E+00	0.00E+00	0.00E+00	3.74E-01	2.63E+02	1.42E-03	7.89E+02	4.74E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.62E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.02E+00	0.00E+00	0.00E+00	0.00E+00	6.99E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	9.16E-07	0.00E+00	0.00E+00	0.00E+00	9.16E-07	4.58E+00	2.00E-07	9.16E+00	1.00E-07
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	5.26E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	0.00E+00	9.85E-03	2.10E-01	4.69E-02	2.10E+00	4.69E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.56E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+00	1.60E+02	2.23E-02	3.20E+02	1.11E-02

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	8.1E-07	4.1E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.8E-04	5.5E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.1E-03	1.1E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.1E-03	1.1E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi\,x\,Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Factor	Value	Units
Terrestrial plant diet fraction =	1	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0	kg/d
Food ingestion rate =	0.000711	kg/d
Body weight =	0.0095	kg
Home range =	1310	acres
Water intake rate =	0.0015	L/d
Site Area =	3217	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-94
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.38E-09	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.56E-10	0.00E+00	0.00E+00	0.00E+00	2.13E-09	1.00E-06	2.13E-03	1.00E-05	2.13E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	1.37E-06	8.00E-01	1.72E-06	4.00E+00	3.43E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	2.58E-05	8.00E-01	3.23E-05	4.00E+00	6.46E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.83E-06	0.00E+00	0.00E+00	0.00E+00	1.83E-06	8.00E-01	2.29E-06	4.00E+00	4.58E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	5.24E-08	0.00E+00	0.00E+00	0.00E+00	5.24E-08	2.00E-01	2.62E-07	1.00E+00	5.24E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.80E-07	0.00E+00	0.00E+00	0.00E+00	1.80E-07	4.58E+00	3.93E-08	9.16E+00	1.97E-08
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	5.37E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-01	1.93E+00	2.78E-01	1.93E+01	2.78E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	1.15E-03	1.25E-01	9.24E-03	1.25E+00	9.24E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	1.31E-06	6.85E-02	1.91E-05	6.85E-01	1.91E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.21E-07	0.00E+00	0.00E+00	0.00E+00	6.21E-07	6.80E-02	9.13E-06	6.80E-01	9.13E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	7.27E-07	0.00E+00	0.00E+00	0.00E+00	7.27E-07	6.80E-02	1.07E-05	6.80E-01	1.07E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	1.60E-07	6.80E-02	2.36E-06	6.80E-01	2.36E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	2.55E-05	6.80E-02	3.76E-04	6.80E-01	3.76E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	1.00E-02	4.00E+00	2.51E-03	4.00E+01	2.51E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	2.69E-04	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.96E-02	0.00E+00	0.00E+00	0.00E+00	1.99E-02	1.00E+00	1.99E-02	1.00E+01	1.99E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	9.89E-08	0.00E+00	0.00E+00	0.00E+00	9.89E-08	4.58E+00	2.16E-08	9.16E+00	1.08E-08
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.73E-02	0.00E+00	0.00E+00	0.00E+00	2.73E-02	2.74E+03	9.97E-06	2.74E+04	9.97E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	3.88E-04	3.28E+00	1.18E-04	1.31E+01	2.95E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.21E-07	4.58E+00	2.65E-08	9.16E+00	1.32E-08
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.20E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.49E-01	0.00E+00	0.00E+00	0.00E+00	2.50E-01	1.17E+01	2.14E-02	1.51E+01	1.65E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.53E-07	0.00E+00	0.00E+00	0.00E+00	2.53E-07	2.00E-02	1.26E-05	2.00E-01	1.26E-06
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.99E-07	0.00E+00	0.00E+00	0.00E+00	3.99E-07	9.20E-02	4.34E-06	9.20E-01	4.34E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	1.88E-07	8.00E-02	2.35E-06	2.90E-01	6.48E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	5.40E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	2.77E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.29E-04	0.00E+00	0.00E+00	0	NA	0.00E+00	NA	2.50E-01	0.00E+00	0.00E+00	0.00E+00	2.50E-01	8.00E+00	3.13E-02	8.00E+01	3.13E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.09E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	4.02E+00	0.00E+00	0.00E+00	0.00E+00	4.06E+00	8.80E+01	4.61E-02	2.84E+02	1.43E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	4.66E-03	0.00E+00	0.00E+00	0.00E+00	4.66E-03	1.32E+01	3.53E-04	3.96E+01	1.18E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.08E-08	0.00E+00	0.00E+00	0.00E+00	6.08E-08	7.00E-02	8.68E-07	7.00E-01	8.68E-08
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.66E-02	0.00E+00	0.00E+00	0.00E+00	2.66E-02	4.00E+01	6.66E-04	8.00E+01	3.33E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.19E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-02	5.07E+02	1.22E-04	1.13E+03	5.48E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								7.17E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-03	5.07E+02	1.41E-05	1.13E+03	6.35E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.75E-07	0.00E+00	0.00E+00	0.00E+00	2.75E-07	4.58E+00	6.01E-08	9.16E+00	3.01E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	9.43E-07	0.00E+00	0.00E+00	0.00E+00	9.43E-07	2.40E-01	3.93E-06	2.40E+00	3.93E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	6.45E-04	2.40E-01	2.69E-03	2.40E+00	2.69E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	1.51E-01	0.00E+00	0.00E+00	0.00E+00	1.51E-01	8.50E+00	1.77E-02	2.55E+01	5.91E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	1.05E-02	2.00E-01	5.25E-02	3.30E-01	3.18E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.67E-01	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.63E+02	6.35E-04	7.89E+02	2.12E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.64E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	2.34E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	1.44E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-07	4.58E+00	3.15E-08	9.16E+00	1.58E-08
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	3.41E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	6.60E-03	2.10E-01	3.14E-02	2.10E+00	3.14E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	2.60E+00	0.00E+00	0.00E+00	0.00E+00	2.60E+00	1.60E+02	1.62E-02	3.20E+02	8.12E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-07	8.9E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.6E-05	7.3E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.2E-04	4.2E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.7E-05	1.8E-06

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.

Table O-95
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.44E-10	1.41E-09	0.00E+00	3.626E-06	3.09E-08	0.00E+00	4.49E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-06	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.22E-01	1.54E+00	0.00E+00	0.0459392	6.93E+00	0.00E+00	2.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.10E-02	0.00E+00	0	9.46E-02	NA	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	8.11E-01	9.22E-01	9.22E-01	4.97E-05	8.70E-05	0.00E+00	0.0070874	6.96E-04	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.86E-01	1.49E-01	1.49E-01	2.36E-04	1.14E-03	0.00E+00	0.1220987	6.01E-03	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-01	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.20E-01	0.00E+00	0.00E+00	10.448494	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	9.68E-06	0.00E+00	0	2.12E-04	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	1.04E-04	0.00E+00	0.00E+00	0.0135836	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	1.37E-02	NA	NA	NA	NA
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.09E-03	0.00E+00	0.00E+00	1.5887382	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+00	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	1.08E+00			0.00E+00	1.52E-05	0.00E+00	0	1.14E-05	NA	1.15E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.42E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.21E-02	1.01E-01	1.01E-01	0.00E+00	1.48E-03	0.00E+00	0	3.44E-03	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03	NA	NA	NA	NA
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.73E-02	2.06E-05	0.00E+00	1.619031	4.33E-05	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E+00	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.41E-03	0.00E+00	0.00E+00	0.1318219	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.99E-01	1.95E-01	1.95E-01	0.00E+00	1.38E-04	0.00E+00	0	6.20E-04	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.22E-01	3.17E-03	0.00E+00	11.372196	6.66E-03	0.00E+00	7.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.13E-04	0.00E+00	0	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.66E-04	0.00E+00	0.00E+00	0.0621748	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	9.78E-01	4.51E-01	4.51E-01	0.00E+00	6.06E-03	0.00E+00	0	4.57E-02	0.00E+00	4.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.5930505	acres
Water intake rate =	0.112	L/d
Site Area =	262	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-96
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.13E-10	8.87E-10	0.00E+00	4.306E-07	4.15E-09	0.00E+00	2.41E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-07	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.31E-02	1.28E+00	0.00E+00	0.0312387	5.79E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.87E-02	0.00E+00	0	8.44E-02	NA	9.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	8.80E-01	6.72E-01	6.72E-01	4.17E-05	7.26E-05	0.00E+00	0.0041845	4.36E-05	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.44E-01	8.97E-02	8.97E-02	1.86E-04	9.79E-04	0.00E+00	0.0180883	1.53E-03	0.00E+00	4.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.35E-02	0.00E+00	0.00E+00	1.8249417	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	9.68E-06	0.00E+00	0	4.53E-05	0.00E+00	9.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	8.18E-05	0.00E+00	0.00E+00	0.0032033	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	3.29E-03	NA	NA	NA	NA
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.33E-03	0.00E+00	0.00E+00	0.1384004	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-01	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	1.15E+00			0.00E+00	1.33E-05	0.00E+00	0	9.95E-06	NA	1.07E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.30E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.43E-02	8.71E-02	8.71E-02	0.00E+00	1.29E-03	0.00E+00	0	6.27E-04	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	NA	NA	NA	NA
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.58E-03	1.51E-05	0.00E+00	0.2518872	6.34E-06	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.11E-03	0.00E+00	0.00E+00	0.0291896	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.92E-01	1.51E-01	1.51E-01	0.00E+00	1.19E-04	0.00E+00	0	5.37E-04	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-01	2.20E-03	0.00E+00	2.7006937	9.27E-04	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	9.74E-05	0.00E+00	0	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.28E-04	0.00E+00	0.00E+00	0.013879	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	1.05E+00	1.84E-01	1.84E-01	0.00E+00	5.11E-03	0.00E+00	0	9.91E-03	0.00E+00	3.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	11.21854	acres
Water intake rate =	0.112	L/d
Site Area =	262	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-97
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.92E-09	2.09E-08	0.00E+00	0	8.26E-06	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	1.40E-05	6.21E-01	1.40E-04	6.21E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	2.80E-03	3.67E-02	2.80E-02	3.67E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	5.80E-02	5.47E-03	5.80E-01	5.47E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	2.80E-03	6.06E-02	2.80E-02	6.06E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	2.14E+00	1.31E-05	1.07E+01	2.62E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.46E+00	2.28E+01	0.00E+00	0	1.86E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E+03	1.10E+02	1.71E+01	3.29E+02	5.71E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	4.10E-01	5.59E-04	1.23E+00	1.86E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	1.80E-01	5.89E-04	1.80E+00	5.89E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	1.80E-01	1.75E-03	1.80E+00	1.75E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	1.80E-01	3.34E-03	1.80E+00	3.34E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	1.80E-01	3.13E-04	1.80E+00	3.13E-05
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.11E-01	0.00E+00	0	2.53E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E+01	2.08E+01	1.23E+00	4.17E+01	6.15E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	5.96E-04	1.29E-03	0.00E+00	0	1.86E-01	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-01	1.45E+00	1.33E-01	2.00E+01	9.66E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	2.14E+00	6.53E-06	1.07E+01	1.31E-06
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	1.00E+00	1.10E-03	5.00E+00	2.20E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	2.14E+00	8.62E-06	1.07E+01	1.72E-06
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	2.83E-03	1.69E-02	0.00E+00	0	1.61E+00	4.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+00	4.70E+01	3.56E-02	6.17E+01	2.71E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	7.70E-02	1.74E-04	2.31E-01	5.80E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	3.00E-01	6.62E-05	9.00E-01	2.21E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.43E+00	0.00E+00	0.00E+00	0	0.00E+00	3.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.44E-04	0.00E+00	0	5.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.24E-03	0.00E+00	0.00E+00	0	NA	1.56E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-02	1.13E+00	1.49E-02	1.13E+01	1.49E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.09E-01	0.00E+00	0.00E+00	0	0.00E+00	9.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+00	9.77E+02	1.11E-03	9.77E+03	1.11E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.01E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	4.50E-01	4.48E-03	9.00E-01	2.24E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.25E-04	0.00E+00	0	3.06E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.28E-03	6.40E-03	5.13E-01	6.40E-02	5.13E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	2.20E-02	0.00E+00	0	9.20E-01	1.59E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+00	7.74E+01	1.42E-02	1.07E+02	1.03E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.08E-01	3.05E-04	0.00E+00	0	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-01	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.69E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	2.14E+00	5.94E-06	1.07E+01	1.19E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	6.73E+00	9.41E-06	6.73E+01	9.41E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	6.73E+00	4.41E-03	6.73E+01	4.41E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.51E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	6.50E+01	2.32E-05	1.30E+02	1.16E-05
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	2.04E-03	0.00E+00	0	1.66E-01	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-01	1.80E+00	9.46E-02	5.40E+00	3.15E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.46E+00	4.70E-02	0.00E+00	0	1.78E+00	1.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.68E-03	0.00E+00	0	1.36E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	3.50E-01	3.94E-01	1.05E+00	1.31E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	2.14E+00	1.06E-05	1.07E+01	2.11E-06
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	7.98E-03	0.00E+00	0.00E+00	0	0.00E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	1.14E+01	1.26E-03	3.42E+01	4.20E-04
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	8.99E-02	0.00E+00	0	1.22E+01	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E+01	1.45E+01	8.59E-01	1.31E+02	9.50E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.5E-05	8.9E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.0E-01	1.0E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.6E-03	7.9E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.4E-04	8.0E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Table O-98
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.56E-09	1.32E-08	0.00E+00	0	1.11E-06	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-06	1.40E-05	9.23E-02	1.40E-04	9.23E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	2.80E-03	1.21E-02	2.80E-02	1.21E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	5.80E-02	2.27E-03	5.80E-01	2.27E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	2.80E-03	1.67E-02	2.80E-02	1.67E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	2.14E+00	6.33E-06	1.07E+01	1.27E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.96E-01	1.90E+01	0.00E+00	0	1.55E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+03	1.10E+02	1.43E+01	3.29E+02	4.77E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	4.10E-01	2.68E-04	1.23E+00	8.94E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	1.80E-01	2.89E-04	1.80E+00	2.89E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	1.80E-01	8.14E-04	1.80E+00	8.14E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	1.80E-01	1.05E-03	1.80E+00	1.05E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	1.80E-01	1.68E-04	1.80E+00	1.68E-05
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0	2.26E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+01	2.08E+01	1.10E+00	4.17E+01	5.49E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	5.00E-04	1.08E-03	0.00E+00	0	1.17E-02	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	1.45E+00	1.24E-02	2.00E+01	8.96E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	2.14E+00	3.47E-06	1.07E+01	6.94E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	1.00E+00	9.90E-04	5.00E+00	1.98E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	2.14E+00	4.26E-06	1.07E+01	8.51E-07
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	2.23E-03	1.45E-02	0.00E+00	0	4.09E-01	4.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-01	4.70E+01	1.00E-02	6.17E+01	7.63E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	7.70E-02	9.29E-05	2.31E-01	3.10E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	3.00E-01	3.30E-05	9.00E-01	1.10E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	1.44E-04	0.00E+00	0	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	9.80E-04	0.00E+00	0.00E+00	0	NA	1.15E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	1.13E+00	1.11E-02	1.13E+01	1.11E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	7.59E-02	0.00E+00	0.00E+00	0	0.00E+00	8.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-01	9.77E+02	9.85E-04	9.77E+03	9.85E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.95E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	4.50E-01	4.33E-03	9.00E-01	2.17E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.96E-04	0.00E+00	0	2.66E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.86E-03	6.40E-03	4.47E-01	6.40E-02	4.47E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	1.91E-02	0.00E+00	0	1.68E-01	3.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-01	7.74E+01	2.83E-03	1.07E+02	2.05E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.15E-01	2.24E-04	0.00E+00	0	1.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.33E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	2.14E+00	3.32E-06	1.07E+01	6.64E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	6.73E+00	1.49E-03	6.73E+01	1.49E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.09E-04	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	6.50E+01	1.68E-06	1.30E+02	8.40E-07
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E+00	1.51E+00	0.00E+00	1.77E-03	0.00E+00	0	1.44E-01	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-01	1.80E+00	8.20E-02	5.40E+00	2.73E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.23E+00	3.27E-02	0.00E+00	0	2.48E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.44E-03	0.00E+00	0	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	3.50E-01	3.40E-01	1.05E+00	1.13E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	2.14E+00	5.07E-06	1.07E+01	1.01E-06
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	6.33E-03	0.00E+00	0.00E+00	0	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-03	1.14E+01	8.07E-04	3.42E+01	2.69E-04
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	7.58E-02	0.00E+00	0	2.65E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E+00	1.45E+01	1.96E-01	1.31E+02	2.16E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.2E-05	4.5E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.1E-02	3.1E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.6E-03	3.2E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.3E-04	4.2E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

***Species-Specific Fact

Table O-99
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.22E-09	0.00E+00	5.07E-08	0	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	1.40E-05	7.77E-01	1.40E-04	7.77E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.80E-05	0	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	2.80E-03	9.65E-01	2.80E-02	9.65E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	5.52E-05	0	0.00E+00	8.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-03	5.80E-02	1.44E-01	5.80E-01	1.44E-02
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.86E-05	0	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	2.80E-03	1.59E+00	2.80E-02	1.59E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.40E-06	0	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.83E-06	0	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	2.14E+00	3.44E-04	1.07E+01	6.88E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.11E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-01	1.10E+02	5.57E-03	3.29E+02	1.86E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.18E-03	0	0.00E+00	8.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.94E-05	0	0.00E+00	5.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	4.10E-01	1.47E-02	1.23E+00	4.90E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.82E-05	0	0.00E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	1.80E-01	1.55E-02	1.80E+00	1.55E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.28E-05	0	0.00E+00	8.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-03	1.80E-01	4.60E-02	1.80E+00	4.60E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	9.59E-05	0	0.00E+00	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-02	1.80E-01	8.78E-02	1.80E+00	8.78E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-05	0	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	1.80E-01	8.22E-03	1.80E+00	8.22E-04
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.73E-04	0	0.00E+00	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	2.49E-04	0.00E+00	4.93E-03	0	0.00E+00	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	1.45E+00	9.53E-02	2.00E+01	6.91E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.41E-06	0	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	2.14E+00	1.71E-04	1.07E+01	3.43E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.57E-01	0	0.00E+00	2.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-01	1.00E+00	1.86E-01	5.00E+00	3.72E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.18E-06	0	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	2.14E+00	2.26E-04	1.07E+01	4.53E-05
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.18E-03	0.00E+00	9.54E-02	0	0.00E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	4.70E+01	2.77E-02	6.17E+01	2.11E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-06	0	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	7.70E-02	4.57E-03	2.31E-01	1.52E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.53E-06	0	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	3.00E-01	1.74E-03	9.00E-01	5.80E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.83E-06	0	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.98E-01	0.00E+00	1.29E+02	0	0.00E+00	9.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.18E-04	0.00E+00	2.29E+00	0	NA	4.07E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.54E-02	0.00E+00	1.20E+01	0	0.00E+00	2.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E+01	9.77E+02	3.84E-02	9.77E+03	3.84E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	7.64E-04	0	0.00E+00	5.26E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-02	4.50E-01	1.19E-01	9.00E-01	5.93E-02
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.38E-06	0	0.00E+00	6.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.12E-02	0	0.00E+00	4.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E+00	7.74E+01	5.47E-02	1.07E+02	3.96E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.67E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-02	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								7.06E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.26E-06	0	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	2.14E+00	1.56E-04	1.07E+01	3.12E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-05	0	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	6.73E+00	2.47E-04	6.73E+01	2.47E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.43E-03	0	0.00E+00	7.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-01	6.73E+00	1.16E-01	6.73E+01	1.16E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.59E-03	0	0.00E+00	3.94E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-02	6.50E+01	6.61E-04	1.30E+02	3.31E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	5.30E-03	0	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-02	1.80E+00	3.63E-02	5.40E+00	1.21E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.83E-01	0	0.00E+00	4.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-01	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.09E-01	0.00E+00	2.95E+00	0	0.00E+00	3.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.90E-06	0	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	2.14E+00	2.78E-04	1.07E+01	5.55E-05
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.33E-03	0.00E+00	1.97E-01	0	0.00E+00	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-01	1.14E+01	3.22E-02	3.42E+01	1.07E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	7.56E-01	0	0.00E+00	3.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E+00	1.45E+01	2.93E-01	1.31E+02	3.24E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.2E-03	2.4E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.7E+00	2.7E-01
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.7E-01	2.1E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	6.3E-03	2.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Table O-100
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.07E-09	0.00E+00	4.09E-08	0	0.00E+00	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-06	1.40E-05	3.12E-01	1.40E-04	3.12E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-05	0	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-04	2.80E-03	3.19E-01	2.80E-02	3.19E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.98E-05	0	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	5.80E-02	6.00E-02	5.80E-01	6.00E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.37E-05	0	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	2.80E-03	4.41E-01	2.80E-02	4.41E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.26E-06	0	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.05E-06	0	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	2.14E+00	1.67E-04	1.07E+01	3.34E-05
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.16E-01	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-01	1.10E+02	3.79E-03	3.29E+02	1.26E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	6.54E-03	0	0.00E+00	1.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.28E-05	0	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	4.10E-01	7.08E-03	1.23E+00	2.36E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.55E-05	0	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	1.80E-01	7.64E-03	1.80E+00	7.64E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.26E-05	0	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03	1.80E-01	2.15E-02	1.80E+00	2.15E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.23E-05	0	0.00E+00	4.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03	1.80E-01	2.77E-02	1.80E+00	2.77E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.02E-05	0	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	1.80E-01	4.44E-03	1.80E+00	4.44E-04
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.55E-04	0	0.00E+00	4.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-02	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	2.09E-04	0.00E+00	3.88E-03	0	0.00E+00	1.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-01	1.45E+00	8.70E-02	2.00E+01	6.31E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.22E-06	0	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	2.14E+00	9.17E-05	1.07E+01	1.83E-05
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.42E-01	0	0.00E+00	2.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	1.00E+00	1.67E-01	5.00E+00	3.35E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-06	0	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	2.14E+00	1.12E-04	1.07E+01	2.25E-05
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	9.31E-04	0.00E+00	8.38E-02	0	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+00	4.70E+01	2.67E-02	6.17E+01	2.03E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.21E-06	0	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	7.70E-02	2.45E-03	2.31E-01	8.18E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.05E-06	0	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	3.00E-01	8.71E-04	9.00E-01	2.90E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.48E-06	0	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.18E-01	0.00E+00	1.17E+02	0	0.00E+00	4.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	4.09E-04	0.00E+00	1.70E+00	0	NA	3.01E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	1.13E+00	1.77E+00	1.13E+01	1.77E-01
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.17E-02	0.00E+00	1.07E+01	0	0.00E+00	2.31E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E+01	9.77E+02	3.46E-02	9.77E+03	3.46E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	6.94E-04	0	0.00E+00	5.09E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-02	4.50E-01	1.15E-01	9.00E-01	5.73E-02
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.70E-06	0	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.16E-02	0	0.00E+00	8.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-01	7.74E+01	1.18E-02	1.07E+02	8.53E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.79E-02	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-02	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.55E-03	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.19E-06	0	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	2.14E+00	8.77E-05	1.07E+01	1.75E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.21E-06	0	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	6.73E+00	9.12E-05	6.73E+01	9.12E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.18E-03	0	0.00E+00	2.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-01	6.73E+00	3.93E-02	6.73E+01	3.93E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.89E-04	0	0.00E+00	2.85E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	6.50E+01	5.91E-05	1.30E+02	2.95E-05
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	4.80E-03	0	0.00E+00	5.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-02	1.80E+00	3.36E-02	5.40E+00	1.12E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.67E-01	0	0.00E+00	1.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-01	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	5.14E-01	0.00E+00	1.67E+00	0	0.00E+00	4.81E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.24E-06	0	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	2.14E+00	1.34E-04	1.07E+01	2.68E-05
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.64E-03	0.00E+00	1.86E-01	0	0.00E+00	7.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-01	1.14E+01	2.31E-02	3.42E+01	7.70E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	6.16E-01	0	0.00E+00	2.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E+00	1.45E+01	2.38E-01	1.31E+02	2.64E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	5.9E-04	1.2E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.2E-01	8.2E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.8E-02	8.5E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	3.3E-03	1.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

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Table O-101
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.32E-09	6.19E-08	0.00E+00	0.0002538	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	1.40E-05	1.84E+01	1.40E-04	1.84E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.61E-01	6.77E+01	0.00E+00	3.2159206	7.63E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E+02	1.10E+02	7.60E+00	3.29E+02	2.53E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.24E-01	0.00E+00	0	1.04E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+01	2.08E+01	5.45E-01	4.17E+01	2.72E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	2.69E-04	3.83E-03	0.00E+00	0.4961467	7.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-01	1.45E+00	3.98E-01	2.00E+01	2.88E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.28E-03	5.03E-02	0.00E+00	8.5473788	6.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E+00	4.70E+01	1.97E-01	6.17E+01	1.50E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.46E-01	0.00E+00	0.00E+00	731.43495	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	4.26E-04	0.00E+00	0	2.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.60E-04	0.00E+00	0.00E+00	0.9509063	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-01	3.85E+00	2.47E-01	1.16E+01	8.24E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.91E-02	0.00E+00	0.00E+00	111.21782	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+02	9.77E+02	1.14E-01	9.77E+03	1.14E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	6.69E-04	0.00E+00	0	1.26E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.92E-03	6.40E-03	3.01E-01	6.40E-02	3.01E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	6.51E-02	0.00E+00	0	3.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-01	7.74E+01	5.73E-03	1.07E+02	4.14E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.38E-02	9.06E-04	0.00E+00	113.33843	4.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+02	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								7.63E-03	0.00E+00	0.00E+00	9.2280445	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	6.05E-03	0.00E+00	0	6.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-02	4.40E-01	1.69E-01	1.50E+00	4.95E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.59E-01	1.39E-01	0.00E+00	796.09765	7.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E+02	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	4.97E-03	0.00E+00	0	5.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-02	3.50E-01	1.74E-01	1.05E+00	5.81E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.60E-03	0.00E+00	0.00E+00	4.3524781	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00	1.14E+01	3.82E-01	3.42E+01	1.27E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	2.67E-01	0.00E+00	0	5.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E+00	1.45E+01	3.65E-01	1.31E+02	4.04E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Recept

Table O-102
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.63E-10	5.52E-09	0.00E+00	4.262E-06	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06	1.40E-05	3.09E-01	1.40E-04	3.09E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	6.35E-02	7.99E+00	0.00E+00	0.3092005	9.00E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E+01	1.10E+02	8.97E-01	3.29E+02	2.99E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.17E-01	0.00E+00	0	1.31E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+00	2.08E+01	6.88E-02	4.17E+01	3.43E-02	
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.60E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	3.19E-05	4.52E-04	0.00E+00	0.0414181	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-02	1.45E+00	2.94E-02	2.00E+01	2.13E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.42E-04	6.09E-03	0.00E+00	0.1790384	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-01	4.70E+01	4.45E-03	6.17E+01	3.39E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.38E-02	0.00E+00	0.00E+00	18.063291	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	6.02E-05	0.00E+00	0	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	6.25E-05	0.00E+00	0.00E+00	0.0317062	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-02	3.85E+00	8.25E-03	1.16E+01	2.75E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.84E-03	0.00E+00	0.00E+00	1.369889	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+00	9.77E+02	1.41E-03	9.77E+03	1.41E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00	
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	8.24E-05	0.00E+00	0	1.55E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	6.40E-03	3.71E-02	6.40E-02	3.71E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	8.02E-03	0.00E+00	0	9.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02	7.74E+01	2.30E-04	1.07E+02	1.66E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.32E-03	9.38E-05	0.00E+00	2.4931816	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.48E-04	0.00E+00	0.00E+00	0.2889188	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	7.41E-04	0.00E+00	0	8.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-03	4.40E-01	2.07E-02	1.50E+00	6.06E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.85E-02	1.37E-02	0.00E+00	26.731493	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+01	NA	NA	NA	NA	
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	6.06E-04	0.00E+00	0	6.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-03	3.50E-01	2.12E-02	1.05E+00	7.08E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.03E-04	0.00E+00	0.00E+00	0.1373744	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	1.14E+01	1.21E-02	3.42E+01	4.03E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	3.18E-02	0.00E+00	0	1.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-01	1.45E+01	1.28E-02	1.31E+02	1.42E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{n} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAE

Table O-103
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	6.93E-10	0.00E+00	2.38E-09	1.623E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-09	7.96E-10	1.62E-05	1.40E-05	1.16E+00	1.40E-04	1.16E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.43E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	5.35E-06	3.68E-05	2.80E-03	1.31E-02	2.80E-02	1.31E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.59E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	1.42E-05	9.78E-05	5.80E-02	1.69E-03	5.80E-01	1.69E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.34E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	1.23E-05	8.39E-05	2.80E-03	3.00E-02	2.80E-02	3.00E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-06	7.14E-07	4.92E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	1.44E-06	9.89E-06	2.14E+00	4.62E-06	1.07E+01	9.24E-07
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	3.47E-01	0.00E+00	0.00E+00	0.2056948	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-01	1.10E+02	5.04E-03	3.29E+02	1.68E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.83E-04	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	3.51E-04	2.74E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.85E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	1.17E-05	8.06E-05	4.10E-01	1.97E-04	1.23E+00	6.56E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.54E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	5.42E-06	3.73E-05	1.80E-01	2.07E-04	1.80E+00	2.07E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	2.47E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	1.45E-05	9.97E-05	1.80E-01	5.54E-04	1.80E+00	5.54E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	4.50E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	4.75E-05	3.24E-04	1.80E-01	1.80E-03	1.80E+00	1.80E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.12E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	3.24E-06	2.23E-05	1.80E-01	1.24E-04	1.80E+00	1.24E-05
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.09E-05	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	2.59E-04	1.79E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	8.11E-01	9.52E-01	9.52E-01	9.22E-01	9.22E-01	1.41E-04	0.00E+00	2.31E-04	0.0317342	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-03	1.17E-03	4.00E-02	1.45E+00	2.76E-02	2.00E+01	2.00E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	7.16E-07	4.93E-06	2.14E+00	2.30E-06	1.07E+01	4.60E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.37E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-02	1.35E-02	9.83E-02	1.00E+00	9.83E-02	5.00E+00	1.97E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.49E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06	9.45E-07	6.51E-06	2.14E+00	3.04E-06	1.07E+01	6.08E-07
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.86E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	6.71E-04	0.00E+00	4.47E-03	0.5467023	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-02	3.68E-03	5.77E-01	4.70E+01	1.23E-02	6.17E+01	9.34E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.12E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06	7.08E-07	4.88E-06	7.70E-02	6.33E-05	2.31E-01	2.11E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.66E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06	1.11E-06	7.63E-06	1.00E-02	7.63E-04	1.00E-01	7.63E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.33E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06	8.41E-07	5.79E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.40E-01	0.00E+00	6.04E+00	46.783605	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	6.87E-02	5.36E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.94E-04	0.00E+00	1.07E-01	0.0608213	NA	0.00E+00	NA	0.00E+00	0.00E+00	4.49E-02	7.84E-03	2.21E-01	3.85E+00	5.74E-02	1.16E+01	1.91E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.58E-02	0.00E+00	5.63E-01	7.1136474	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-01	2.97E-02	7.90E+00	9.77E+02	8.09E-03	9.77E+03	8.09E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.58E-05	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.16E-04	2.03E-05	1.72E-04	4.50E-01	3.83E-04	9.00E-01	1.92E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.05E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	1.30E-06	8.97E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	4.28E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	2.38E-03	2.03E-02	7.74E+01	2.62E-04	1.07E+02	1.89E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.93E-02	0.00E+00	0.00E+00	7.2492849	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E+00	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.01E-03	0.00E+00	0.00E+00	0.5902387	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.06E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-06	6.71E-07	4.62E-06	2.14E+00	2.16E-06	1.07E+01	4.32E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.32E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	3.37E-06	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.54E-04	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03	1.61E-03	1.11E-02	6.73E+00	1.65E-03	6.73E+01	1.65E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.69E-04	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	8.83E-04	1.54E-04	1.21E-03	6.50E+01	1.85E-05	1.30E+02	9.27E-06
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	4.99E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	2.48E-04	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	2.66E-04	2.04E-03	4.40E-01	4.64E-03	1.50E+00	1.36E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.59E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-02	7.85E-03	6.14E-02	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.46E-01	0.00E+00	1.38E-01	50.919522	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-01	1.27E-01	5.23E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	1.16E-06	7.98E-06	2.14E+00	3.73E-06	1.07E+01	7.45E-07
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.89E-03	0.00E+00	9.23E-03	0.2783906	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	3.01E-04	2.92E-01	1.14E+01	2.56E-02	3.42E+01	8.52E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	3.54E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-01	8.79E-02	6.27E-01	1.45E+01	4.32E-02	1.31E+02	4.78E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.6E-05	3.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.5E-02	4.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.9E-03	3.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	8.3E-04	9.7E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropri

Table O-104
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.07E-10	0.00E+00	1.92E-09	1.928E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-09	4.98E-10	1.93E-06	1.40E-05	1.38E-01	1.40E-04	1.38E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.82E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	2.32E-06	1.61E-05	2.80E-03	5.75E-03	2.80E-02	5.75E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.87E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	9.67E-06	6.69E-05	5.80E-02	1.15E-03	5.80E-01	1.15E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	6.43E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	3.14E-06	2.17E-05	2.80E-03	7.77E-03	2.80E-02	7.77E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.06E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	5.11E-07	3.54E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.90E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-06	9.15E-07	6.34E-06	2.14E+00	2.96E-06	1.07E+01	5.93E-07
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.36E-01	0.00E+00	0.00E+00	0.1398725	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-01	1.10E+02	3.43E-03	3.29E+02	1.14E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.07E-04	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	1.56E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.54E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	7.41E-06	5.14E-05	4.10E-01	1.25E-04	1.23E+00	4.18E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.27E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	3.51E-06	2.43E-05	1.80E-01	1.35E-04	1.80E+00	1.35E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	2.00E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	5.47E-06	3.88E-05	1.80E-01	2.15E-04	1.80E+00	2.15E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.45E-06	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	2.25E-05	1.54E-04	1.80E-01	8.55E-04	1.80E+00	8.55E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.77E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	2.30E-06	1.59E-05	1.80E-01	8.86E-05	1.80E+00	8.86E-06
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.07E-05	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04	1.48E-04	1.03E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	8.80E-01	1.06E+00	1.06E+00	6.72E-01	6.72E-01	1.19E-04	0.00E+00	1.82E-04	0.0187362	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	6.74E-04	2.36E-02	1.45E+00	1.63E-02	2.00E+01	1.18E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.04E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	5.02E-07	3.48E-06	2.14E+00	1.63E-06	1.07E+01	3.25E-07
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	6.63E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	3.09E-03	2.74E-02	1.00E+00	2.74E-02	5.00E+00	5.48E-03
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.28E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	6.15E-07	4.27E-06	2.14E+00	1.99E-06	1.07E+01	3.99E-07
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.44E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	5.29E-04	0.00E+00	3.93E-03	0.0809913	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	1.94E-03	9.85E-02	4.70E+01	2.10E-03	6.17E+01	1.60E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	4.99E-07	3.46E-06	7.70E-02	4.49E-05	2.31E-01	1.50E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	1.43E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	9.56E-07	6.58E-06	1.00E-02	6.58E-04	1.00E-01	6.58E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.16E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06	5.60E-07	3.89E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.37E-01	0.00E+00	5.48E+00	8.171259	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	5.30E-02	1.42E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.32E-04	0.00E+00	7.96E-02	0.0143429	NA	0.00E+00	NA	0.00E+00	0.00E+00	2.92E-02	5.10E-03	1.28E-01	3.85E+00	3.34E-02	1.16E+01	1.11E-02
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.80E-02	0.00E+00	4.99E-01	0.6196943	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	2.08E-02	1.28E+00	9.77E+02	1.31E-03	9.77E+03	1.31E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	3.25E-05	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	9.37E-05	1.64E-05	1.43E-04	4.50E-01	3.17E-04	9.00E-01	1.58E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.74E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-06	8.37E-07	5.81E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	3.83E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	1.83E-03	1.62E-02	7.74E+01	2.09E-04	1.07E+02	1.51E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.72E-02	0.00E+00	0.00E+00	1.1278361	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								3.15E-03	0.00E+00	0.00E+00	0.1306977	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06	4.95E-07	3.43E-06	2.14E+00	1.60E-06	1.07E+01	3.21E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.38E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	1.63E-06	1.13E-05	6.73E+00	1.68E-06	6.73E+01	1.68E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.49E-04	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	7.18E-04	4.98E-03	6.73E+00	7.40E-04	6.73E+01	7.40E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.64E-05	0	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.62E-04	2.82E-05	2.36E-04	6.50E+01	3.64E-06	1.30E+02	1.82E-06
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.92E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	2.25E-04	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	1.48E-03	4.40E-01	3.37E-03	1.50E+00	9.88E-04
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	7.82E-03	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	4.76E-03	3.99E-02	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.92E-01	0.00E+00	7.82E-02	12.092478	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-01	4.77E-02	1.28E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.52E-07	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06	7.33E-07	5.08E-06	2.14E+00	2.38E-06	1.07E+01	4.75E-07
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.50E-03	0.00E+00	8.71E-03	0.0621438	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	2.63E-04	7.41E-02	1.14E+01	6.50E-03	3.42E+01	2.17E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	2.89E-02	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.92E-02	2.26E-01	1.45E+01	1.56E-02	1.31E+02	1.72E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.1E-05	2.1E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-02	1.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.4E-03	1.7E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	7.0E-04	8.1E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.

Table O-105
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.83E-09	0.00E+00	7.32E-09	0.00E+00	0.00E+00	4.07E-06	0.00E+00	8.32E-10	0.00E+00	0.00E+00	0.00E+00	4.08E-06	1.00E-06	4.08E+00	1.00E-05	4.08E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	1.01E-03	0.00E+00	5.20E-06	0.00E+00	0.00E+00	0.00E+00	1.02E-03	8.00E-01	1.27E-03	4.00E+00	2.54E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	3.11E-03	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	3.24E-03	8.00E-01	4.05E-03	4.00E+00	8.11E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	4.13E-06	0.00E+00	0.00E+00	1.66E-03	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	1.68E-03	8.00E-01	2.09E-03	4.00E+00	4.19E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.47E-07	0.00E+00	0.00E+00	1.39E-04	0.00E+00	5.88E-08	0.00E+00	0.00E+00	0.00E+00	1.40E-04	2.00E-01	6.99E-04	1.00E+00	1.40E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.98E-07	0.00E+00	0.00E+00	2.75E-04	0.00E+00	7.03E-07	0.00E+00	0.00E+00	0.00E+00	2.76E-04	4.58E+00	6.03E-05	9.16E+00	3.02E-05
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E+00	1.93E+00	3.16E+00	1.93E+01	3.16E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	3.37E-02	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	3.69E-02	1.25E-01	2.95E-01	1.25E+00	2.95E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	2.25E-03	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-03	6.85E-02	3.33E-02	6.85E-01	3.33E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-06	0.00E+00	0.00E+00	1.04E-03	0.00E+00	6.65E-07	0.00E+00	0.00E+00	0.00E+00	1.04E-03	6.80E-02	1.53E-02	6.80E-01	1.53E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	3.09E-03	0.00E+00	1.68E-06	0.00E+00	0.00E+00	0.00E+00	3.10E-03	6.80E-02	4.56E-02	6.80E-01	4.56E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	5.91E-03	0.00E+00	1.57E-06	0.00E+00	0.00E+00	0.00E+00	5.92E-03	6.80E-02	8.71E-02	6.80E-01	8.71E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	5.52E-04	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	5.74E-04	6.80E-02	8.44E-03	6.80E-01	8.44E-04
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	4.18E-02	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	5.21E-02	4.00E+00	1.30E-02	4.00E+01	1.30E-03
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	5.00E-02	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	6.76E-02	1.00E+00	6.76E-02	1.00E+01	6.76E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.48E-07	0.00E+00	0.00E+00	1.37E-04	0.00E+00	3.51E-07	0.00E+00	0.00E+00	0.00E+00	1.38E-04	4.58E+00	3.01E-05	9.16E+00	1.50E-05
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	3.80E-03	0.00E+00	2.24E-02	0.00E+00	0.00E+00	1.06E-02	0.00E+00	2.69E-01	0.00E+00	0.00E+00	0.00E+00	3.05E-01	2.74E+03	1.12E-04	2.74E+04	1.12E-05
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	3.80E-03	0.00E+00	3.18E-04	0.00E+00	0.00E+00	1.51E-04	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	8.08E-03	3.28E+00	2.46E-03	1.31E+01	6.15E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.59E-07	0.00E+00	0.00E+00	1.81E-04	0.00E+00	4.63E-07	0.00E+00	0.00E+00	0.00E+00	1.82E-04	4.58E+00	3.97E-05	9.16E+00	1.99E-05
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	5.07E-03	0.00E+00	1.38E-02	0.00E+00	0.00E+00	4.54E-01	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	6.71E-01	1.17E+01	5.73E-02	1.51E+01	4.43E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.44E-07	0.00E+00	0.00E+00	1.31E-04	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	1.46E-04	2.00E-02	7.29E-03	2.00E-01	7.29E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	5.11E-07	0.00E+00	0.00E+00	1.95E-04	0.00E+00	4.88E-07	0.00E+00	0.00E+00	0.00E+00	1.96E-04	9.20E-02	2.13E-03	9.20E-01	2.13E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.09E-07	0.00E+00	0.00E+00	1.59E-04	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	1.59E-04	8.00E-02	1.99E-03	2.90E-01	5.49E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	8.73E+00	0.00E+00	1.86E+01	0.00E+00	0.00E+00	3.63E+01	0.00E+00	1.86E+00	0.00E+00	0.00E+00	0.00E+00	6.55E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.17E-03	0.00E+00	3.30E-01	0.00E+00	NA	1.53E-01	NA	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.09E-01	8.00E+00	8.86E-02	8.00E+01	8.86E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.81E-01	0.00E+00	1.73E+00	0.00E+00	0.00E+00	9.58E+00	0.00E+00	4.34E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	8.80E+01	1.81E-01	2.84E+02	5.61E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.98E-02	NA	1.37E-06	0.00E+00	0.00E+00	0.00E+00	2.36E-02	1.32E+01	1.79E-03	3.96E+01	5.96E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.33E-07	0.00E+00	0.00E+00	2.57E-04	0.00E+00	5.44E-07	0.00E+00	0.00E+00	0.00E+00	2.58E-04	7.00E-02	3.69E-03	7.00E-01	3.69E-04
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.32E-02	0.00E+00	0.00E+00	1.56E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	1.59E+00	4.00E+01	3.98E-02	8.00E+01	1.99E-02
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.24E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-01	5.07E+02	4.41E-04	1.13E+03	1.98E-04
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.75E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+01	5.07E+02	3.46E-02	1.13E+03	1.55E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.26E-07	0.00E+00	0.00E+00	1.25E-04	0.00E+00	2.15E-07	0.00E+00	0.00E+00	0.00E+00	1.25E-04	4.58E+00	2.73E-05	9.16E+00	1.37E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.64E-06	0.00E+00	0.00E+00	6.22E-04	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	6.25E-04	2.40E-01	2.60E-03	2.40E+00	2.60E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.84E-04	0.00E+00	0.00E+00	2.91E-01	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	2.93E-01	2.40E-01	1.22E+00	2.40E+00	1.22E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	1.48E-02	NA	2.44E-01	0.00E+00	0.00E+00	0.00E+00	2.59E-01	8.50E+00	3.05E-02	2.55E+01	1.02E-02
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	1.39E-03	0.00E+00	7.65E-04	0.00E+00	0.00E+00	2.25E-02	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	3.36E-02	2.00E-01	1.68E-01	3.30E-01	1.02E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	1.84E-01	0.00E+00	2.32E-01	0.00E+00	0.00E+00	0.00E+00	4.42E-01	2.63E+02	1.68E-03	7.89E+02	5.60E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.73E+01	0.00E+00	4.27E-01	0.00E+00	0.00E+00	1.22E+01	0.00E+00	3.73E+00	0.00E+00	0.00E+00	0.00E+00	3.36E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	7.40E-03	3.06E-02	7.40E-02	3.06E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.63E-07	0.00E+00	0.00E+00	2.22E-04	0.00E+00	5.67E-07	0.00E+00	0.00E+00	0.00E+00	2.23E-04	4.58E+00	4.87E-05	9.16E+00	2.43E-05
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.85E-02	0.00E+00	2.84E-02	0.00E+00	0.00E+00	6.26E-02	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	1.12E-01	2.10E-01	5.35E-01	2.10E+00	5.35E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.31E+00	0.00E+00	2.21E+00	0.00E+00	0.00E+00	0.00E+00	3.63E+00	1.60E+02	2.27E-02	3.20E+02	1.13E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	2.1E-04	1.0E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.4E-03	1.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-01	1.9E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/End

Table O-106
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
													----------Unitless----------			mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.40E-09	0.00E+00	5.90E-09	0.00E+00	0.00E+00	1.62E-06	0.00E+00	5.72E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-06	1.00E-06	1.63E+00	1.00E-05	1.63E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	3.32E-04	0.00E+00	1.04E-06	0.00E+00	0.00E+00	0.00E+00	3.35E-04	8.00E-01	4.18E-04	4.00E+00	8.37E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	1.29E-03	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-03	8.00E-01	1.65E-03	4.00E+00	3.30E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.98E-06	0.00E+00	0.00E+00	4.59E-04	0.00E+00	1.39E-06	0.00E+00	0.00E+00	0.00E+00	4.63E-04	8.00E-01	5.79E-04	4.00E+00	1.16E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.27E-07	0.00E+00	0.00E+00	7.56E-05	0.00E+00	3.97E-08	0.00E+00	0.00E+00	0.00E+00	7.60E-05	2.00E-01	3.80E-04	1.00E+00	7.60E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.84E-07	0.00E+00	0.00E+00	1.33E-04	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	1.34E-04	4.58E+00	2.92E-05	9.16E+00	1.46E-05
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.37E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E+00	1.93E+00	1.74E+00	1.93E+01	1.74E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.45E-04	0.00E+00	0.00E+00	7.08E-03	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	8.90E-03	1.25E-01	7.12E-02	1.25E+00	7.12E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	1.08E-03	0.00E+00	9.92E-07	0.00E+00	0.00E+00	0.00E+00	1.08E-03	6.85E-02	1.58E-02	6.85E-01	1.58E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-06	0.00E+00	0.00E+00	5.11E-04	0.00E+00	4.70E-07	0.00E+00	0.00E+00	0.00E+00	5.13E-04	6.80E-02	7.55E-03	6.80E-01	7.55E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	1.44E-03	0.00E+00	5.50E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-03	6.80E-02	2.12E-02	6.80E-01	2.12E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	1.86E-03	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.86E-03	6.80E-02	2.74E-02	6.80E-01	2.74E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	2.97E-04	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	3.17E-04	6.80E-02	4.67E-03	6.80E-01	4.67E-04
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	1.81E-02	0.00E+00	7.60E-03	0.00E+00	0.00E+00	0.00E+00	2.58E-02	4.00E+00	6.45E-03	4.00E+01	6.45E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	4.59E-02	0.00E+00	1.49E-02	0.00E+00	0.00E+00	0.00E+00	6.13E-02	1.00E+00	6.13E-02	1.00E+01	6.13E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.21E-07	0.00E+00	0.00E+00	7.29E-05	0.00E+00	7.48E-08	0.00E+00	0.00E+00	0.00E+00	7.33E-05	4.58E+00	1.60E-05	9.16E+00	8.00E-06
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.98E-03	0.00E+00	2.02E-02	0.00E+00	0.00E+00	9.57E-03	0.00E+00	2.07E-02	0.00E+00	0.00E+00	0.00E+00	5.34E-02	2.74E+03	1.95E-05	2.74E+04	1.95E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.98E-03	0.00E+00	2.86E-04	0.00E+00	0.00E+00	1.36E-04	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	3.70E-03	3.28E+00	1.13E-03	1.31E+01	2.82E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.93E-07	0.00E+00	0.00E+00	8.93E-05	0.00E+00	9.17E-08	0.00E+00	0.00E+00	0.00E+00	8.98E-05	4.58E+00	1.96E-05	9.16E+00	9.81E-06
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	3.56E-03	0.00E+00	1.21E-02	0.00E+00	0.00E+00	4.40E-01	0.00E+00	1.88E-01	0.00E+00	0.00E+00	0.00E+00	6.44E-01	1.17E+01	5.50E-02	1.51E+01	4.25E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.19E-07	0.00E+00	0.00E+00	7.02E-05	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	7.07E-05	2.00E-02	3.53E-03	2.00E-01	3.53E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.41E-07	0.00E+00	0.00E+00	9.71E-05	0.00E+00	3.02E-07	0.00E+00	0.00E+00	0.00E+00	9.78E-05	9.20E-02	1.06E-03	9.20E-01	1.06E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.58E-07	0.00E+00	0.00E+00	8.01E-05	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	8.06E-05	8.00E-02	1.01E-03	2.90E-01	2.78E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.84E+00	0.00E+00	1.69E+01	0.00E+00	0.00E+00	1.52E+01	0.00E+00	1.69E+00	0.00E+00	0.00E+00	0.00E+00	3.86E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.70E-03	0.00E+00	2.45E-01	0.00E+00	NA	1.13E-01	NA	1.89E-01	0.00E+00	0.00E+00	0.00E+00	5.49E-01	8.00E+00	6.86E-02	8.00E+01	6.86E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.07E-01	0.00E+00	1.54E+00	0.00E+00	0.00E+00	8.70E+00	0.00E+00	3.04E+00	0.00E+00	0.00E+00	0.00E+00	1.35E+01	8.80E+01	1.53E-01	2.84E+02	4.75E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	1.91E-02	NA	3.53E-03	0.00E+00	0.00E+00	0.00E+00	2.28E-02	1.32E+01	1.72E-03	3.96E+01	5.75E-04
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.35E-07	0.00E+00	0.00E+00	1.25E-04	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	1.26E-04	7.00E-02	1.80E-03	7.00E-01	1.80E-04
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	3.12E-01	0.00E+00	2.02E-02	0.00E+00	0.00E+00	0.00E+00	3.44E-01	4.00E+01	8.60E-03	8.00E+01	4.30E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-01	5.07E+02	2.55E-04	1.13E+03	1.15E-04
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.79E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E+00	5.07E+02	1.73E-02	1.13E+03	7.77E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.16E-07	0.00E+00	0.00E+00	6.97E-05	0.00E+00	2.08E-07	0.00E+00	0.00E+00	0.00E+00	7.02E-05	4.58E+00	1.53E-05	9.16E+00	7.67E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	2.28E-04	0.00E+00	7.14E-07	0.00E+00	0.00E+00	0.00E+00	2.30E-04	2.40E-01	9.57E-04	2.40E+00	9.57E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.59E-04	0.00E+00	0.00E+00	9.83E-02	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	9.92E-02	2.40E-01	4.13E-01	2.40E+00	4.13E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	1.07E-03	NA	1.14E-01	0.00E+00	0.00E+00	0.00E+00	1.15E-01	8.50E+00	1.36E-02	2.55E+01	4.52E-03
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	1.17E-03	0.00E+00	6.93E-04	0.00E+00	0.00E+00	2.10E-02	0.00E+00	7.95E-03	0.00E+00	0.00E+00	0.00E+00	3.08E-02	2.00E-01	1.54E-01	3.30E-01	9.33E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.41E-02	0.00E+00	0.00E+00	5.24E-02	0.00E+00	1.26E-01	0.00E+00	0.00E+00	0.00E+00	2.03E-01	2.63E+02	7.72E-04	7.89E+02	2.57E-04
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.24E+01	0.00E+00	2.41E-01	0.00E+00	0.00E+00	1.81E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	7.40E-03	2.38E-02	7.40E-02	2.38E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.69E-07	0.00E+00	0.00E+00	1.06E-04	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-04	4.58E+00	2.34E-05	9.16E+00	1.17E-05
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.29E-02	0.00E+00	2.68E-02	0.00E+00	0.00E+00	2.82E-02	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	7.03E-02	2.10E-01	3.35E-01	2.10E+00	3.35E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	8.89E-02	0.00E+00	0.00E+00	1.07E+00	0.00E+00	1.97E+00	0.00E+00	0.00E+00	0.00E+00	3.12E+00	1.60E+02	1.95E-02	3.20E+02	9.76E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-04	5.2E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.6E-03	5.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.7E-02	7.7E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Die

Table O-107
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
										----------Unitless----------						mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.77E-10	3.33E-08	9.31E-09	4.02E-06	2.33E-06	6.60E-07	0.00E+00	5.40E-10	0.00E+00	6.03E-10	0.00E+00	7.06E-06	1.00E-06	7.06E+00	1.00E-05	7.06E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	1.64E-04	0.00E+00	3.37E-06	0.00E+00	4.05E-06	0.00E+00	1.74E-04	8.00E-01	2.18E-04	4.00E+00	4.36E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	5.05E-04	0.00E+00	8.03E-05	0.00E+00	1.07E-05	0.00E+00	6.06E-04	8.00E-01	7.58E-04	4.00E+00	1.52E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	5.26E-06	0.00E+00	0.00E+00	2.70E-04	0.00E+00	5.37E-06	0.00E+00	9.30E-06	0.00E+00	2.90E-04	8.00E-01	3.62E-04	4.00E+00	7.25E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	3.82E-08	0.00E+00	5.41E-07	0.00E+00	2.36E-05	2.00E-01	1.18E-04	1.00E+00	2.36E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.87E-07	0.00E+00	0.00E+00	4.46E-05	0.00E+00	4.57E-07	0.00E+00	1.09E-06	0.00E+00	4.71E-05	4.58E+00	1.03E-05	9.16E+00	5.14E-06
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.67E+00	2.42E+01	0.00E+00	2.19E-01	3.48E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E+02	1.93E+00	1.94E+02	1.93E+01	1.94E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	5.46E-03	0.00E+00	1.34E-03	0.00E+00	2.66E-04	0.00E+00	8.57E-03	1.25E-01	6.86E-02	1.25E+00	6.86E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	3.65E-04	0.00E+00	1.51E-05	0.00E+00	8.87E-06	0.00E+00	3.96E-04	6.85E-02	5.79E-03	6.85E-01	5.79E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.35E-06	0.00E+00	0.00E+00	1.69E-04	0.00E+00	4.32E-07	0.00E+00	4.10E-06	0.00E+00	1.77E-04	6.80E-02	2.60E-03	6.90E-01	2.56E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	9.69E-06	0.00E+00	0.00E+00	5.01E-04	0.00E+00	1.09E-06	0.00E+00	1.09E-05	0.00E+00	5.23E-04	6.80E-02	7.69E-03	6.90E-01	7.58E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	9.59E-04	0.00E+00	1.02E-06	0.00E+00	3.60E-05	0.00E+00	1.01E-03	6.80E-02	1.49E-02	6.90E-01	1.47E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.01E-06	0.00E+00	0.00E+00	8.96E-05	0.00E+00	1.35E-05	0.00E+00	2.46E-06	0.00E+00	1.08E-04	6.80E-02	1.58E-03	6.90E-01	1.56E-04
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	6.76E-01	0.00E+00	0.00E+00	9.70E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E+01	5.10E+00	2.03E+00	1.98E+01	5.24E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	6.79E-03	0.00E+00	6.58E-03	0.00E+00	1.97E-04	0.00E+00	1.37E-02	4.00E+00	3.43E-03	4.00E+01	3.43E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	4.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-02	1.83E+01	2.57E-03	1.83E+02	2.57E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	4.32E-04	9.05E-04	0.00E+00	1.10E-02	8.11E-03	0.00E+00	1.10E-02	0.00E+00	8.88E-04	0.00E+00	3.23E-02	1.00E+00	3.23E-02	1.00E+01	3.23E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.42E-07	0.00E+00	0.00E+00	2.22E-05	0.00E+00	2.28E-07	0.00E+00	5.42E-07	0.00E+00	2.35E-05	4.58E+00	5.12E-06	9.16E+00	2.56E-06
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.04E-03	0.00E+00	2.85E-02	3.18E-02	0.00E+00	1.73E-03	0.00E+00	1.74E-01	0.00E+00	1.01E-02	0.00E+00	2.48E-01	2.74E+03	9.04E-05	2.74E+04	9.04E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.04E-03	0.00E+00	4.04E-04	3.18E-02	0.00E+00	2.45E-05	0.00E+00	2.48E-03	0.00E+00	1.43E-04	0.00E+00	3.59E-02	3.28E+00	1.09E-02	1.31E+01	2.73E-03
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.84E-07	0.00E+00	0.00E+00	2.94E-05	0.00E+00	3.01E-07	0.00E+00	7.16E-07	0.00E+00	3.10E-05	4.58E+00	6.76E-06	9.16E+00	3.38E-06
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.39E-03	1.83E-02	1.75E-02	2.51E-01	3.07E-01	7.37E-02	0.00E+00	1.29E-01	0.00E+00	2.79E-03	0.00E+00	8.00E-01	1.17E+01	6.84E-02	1.51E+01	5.29E-02
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	1.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.38E-07	0.00E+00	0.00E+00	2.13E-05	0.00E+00	9.16E-06	0.00E+00	5.37E-07	0.00E+00	3.15E-05	2.00E-02	1.57E-03	2.00E-01	1.57E-04
Endrin	0.00E+00	mg/L	2.75E-04	mg/kg	1.00E+00	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	6.49E-07	0.00E+00	0.00E+00	3.16E-05	0.00E+00	3.17E-07	0.00E+00	8.40E-07	0.00E+00	3.34E-05	9.20E-02	3.64E-04	9.20E-01	3.64E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.20E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	1.25E-07	0.00E+00	6.37E-07	0.00E+00	2.70E-05	8.00E-02	3.38E-04	2.90E-01	9.32E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.40E+00	0.00E+00	2.37E+01	7.30E+01	0.00E+00	5.89E+00	0.00E+00	1.21E+00	0.00E+00	5.21E-02	0.00E+00	1.06E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.96E-04	0.00E+00	4.20E-01	2.73E-02	NA	2.48E-02	NA	1.45E-01	0.00E+00	5.94E-03	0.00E+00	6.23E-01	8.00E+00	7.79E-02	8.00E+01	7.79E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.72E-02	0.00E+00	2.21E+00	4.70E+00	0.00E+00	1.56E+00	0.00E+00	2.82E+00	0.00E+00	2.25E-02	0.00E+00	1.14E+01	8.80E+01	1.29E-01	2.84E+02	4.01E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	3.21E-03	NA	2.41E-03	0.00E+00	1.54E-05	0.00E+00	5.78E-03	1.00E+00	5.78E-03	3.00E+00	1.93E-03
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	1.95E-04	0.00E+00	0.00E+00	4.68E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	6.63E-04	1.50E-02	4.42E-02	2.50E-02	2.65E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.05E-07	0.00E+00	0.00E+00	4.17E-05	0.00E+00	3.53E-07	0.00E+00	9.87E-07	0.00E+00	4.38E-05	7.00E-02	6.26E-04	7.00E-01	6.26E-05
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	2.59E-02	1.68E-02	0.00E+00	1.92E-01	2.53E-01	0.00E+00	1.42E-02	0.00E+00	1.80E-03	0.00E+00	5.04E-01	4.00E+01	1.26E-02	8.00E+01	6.29E-03
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.14E-02	1.76E-03	0.00E+00	2.00E+00	1.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E+00	5.07E+02	4.09E-03	1.13E+03	1.83E-03
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.81E+00	0.00E+00	0.00E+00	1.57E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E+02	5.07E+02	3.18E-01	1.13E+03	1.43E-01
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	1.39E-07	0.00E+00	5.08E-07	0.00E+00	2.13E-05	4.58E+00	4.65E-06	9.16E+00	2.32E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.08E-06	0.00E+00	0.00E+00	1.01E-04	0.00E+00	8.90E-07	0.00E+00	2.55E-06	0.00E+00	1.06E-04	2.40E-01	4.43E-04	2.40E+00	4.43E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	0.00E+00	4.72E-02	0.00E+00	8.97E-04	0.00E+00	1.22E-03	0.00E+00	5.04E-02	2.40E-01	2.10E-01	2.40E+00	2.10E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	2.40E-03	NA	1.58E-01	0.00E+00	1.17E-04	0.00E+00	1.62E-01	8.50E+00	1.90E-02	2.55E+01	6.33E-03
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	3.81E-04	2.14E-03	9.73E-04	2.38E-03	3.07E-02	3.66E-03	0.00E+00	5.76E-03	0.00E+00	2.02E-04	0.00E+00	4.62E-02	2.00E-01	2.31E-01	3.30E-01	1.40E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.37E-02	0.00E+00	0.00E+00	2.99E-02	0.00E+00	1.50E-01	0.00E+00	5.95E-03	0.00E+00	2.20E-01	2.63E+02	8.36E-04	7.89E+02	2.79E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.74E+00	1.77E-01	5.42E-01	1.54E+02	1.19E+00	1.97E+00	0.00E+00	2.42E+00	0.00E+00	9.59E-02	0.00E+00	1.65E+02	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							6.22E-05	1.41E-03	0.00E+00	3.01E-02	2.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-02	7.40E-03	7.01E+00	7.40E-02	7.01E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.16E-07	0.00E+00	0.00E+00	3.60E-05	0.00E+00	3.68E-07	0.00E+00	8.77E-07	0.00E+00	3.80E-05	4.58E+00	8.29E-06	9.16E+00	4.14E-06
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	5.09E-03	0.00E+00	3.62E-02	1.66E-01	0.00E+00	1.02E-02	0.00E+00	1.85E-03	0.00E+00	2.28E-04	0.00E+00	2.19E-01	2.10E-01	1.04E+00	2.10E+00	1.04E-01
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	8.44E-02	1.39E-01	0.00E+00	2.03E+00	2.13E-01	0.00E+00	1.43E+00	0.00E+00	6.66E-02	0.00E+00	3.96E+00	1.60E+02	2.48E-02	3.20E+02	1.24E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	3.5E-05	1.8E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.3E-03	2.7E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.3E-02	3.2E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.6E-03	2.6E-04
Aldrin/Dieldrin/Endrin EEQ:

Table O-108
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
										Unitless						mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.59E-10	9.43E-09	7.51E-09	4.63E-07	1.41E-07	2.64E-07	0.00E+00	3.71E-10	0.00E+00	3.77E-10	0.00E+00	8.86E-07	1.00E-06	8.86E-01	1.00E-05	8.86E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.89E-06	0.00E+00	0.00E+00	5.39E-05	0.00E+00	6.75E-07	0.00E+00	1.76E-06	0.00E+00	5.82E-05	8.00E-01	7.28E-05	4.00E+00	1.46E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	1.27E-05	0.00E+00	7.33E-06	0.00E+00	2.37E-04	8.00E-01	2.97E-04	4.00E+00	5.93E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	2.52E-06	0.00E+00	0.00E+00	7.46E-05	0.00E+00	9.00E-07	0.00E+00	2.38E-06	0.00E+00	8.04E-05	8.00E-01	1.00E-04	4.00E+00	2.01E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.15E-07	0.00E+00	0.00E+00	1.23E-05	0.00E+00	2.58E-08	0.00E+00	3.87E-07	0.00E+00	1.31E-05	2.00E-01	6.55E-05	1.00E+00	1.31E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.43E-07	0.00E+00	0.00E+00	2.16E-05	0.00E+00	8.85E-08	0.00E+00	6.93E-07	0.00E+00	2.31E-05	4.58E+00	5.04E-06	9.16E+00	2.52E-06
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.24E-01	1.77E+01	0.00E+00	1.21E-01	2.54E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E+02	1.93E+00	1.41E+02	1.93E+01	1.41E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	1.15E-03	0.00E+00	5.67E-04	0.00E+00	1.42E-04	0.00E+00	3.06E-03	1.25E-01	2.45E-02	1.25E+00	2.45E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	1.75E-04	0.00E+00	6.44E-07	0.00E+00	5.61E-06	0.00E+00	1.87E-04	6.85E-02	2.73E-03	6.85E-01	2.73E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	8.29E-05	0.00E+00	3.05E-07	0.00E+00	2.66E-06	0.00E+00	8.87E-05	6.80E-02	1.30E-03	6.90E-01	1.29E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.82E-06	0.00E+00	0.00E+00	2.33E-04	0.00E+00	3.57E-07	0.00E+00	4.14E-06	0.00E+00	2.46E-04	6.80E-02	3.61E-03	6.90E-01	3.56E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	3.01E-04	0.00E+00	7.88E-08	0.00E+00	1.71E-05	0.00E+00	3.28E-04	6.80E-02	4.82E-03	6.90E-01	4.75E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	4.81E-05	0.00E+00	1.26E-05	0.00E+00	1.74E-06	0.00E+00	6.43E-05	6.80E-02	9.46E-04	6.90E-01	9.32E-05
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	5.46E-01	0.00E+00	0.00E+00	7.84E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E+00	5.10E+00	1.64E+00	1.98E+01	4.24E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	2.94E-03	0.00E+00	4.94E-03	0.00E+00	1.12E-04	0.00E+00	8.10E-03	4.00E+00	2.03E-03	4.00E+01	2.03E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	5.49E-04	0.00E+00	0.00E+00	8.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-03	1.83E+01	4.76E-04	1.83E+02	4.77E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	4.32E-04	7.13E-04	0.00E+00	8.26E-04	7.45E-03	0.00E+00	9.65E-03	0.00E+00	5.10E-04	0.00E+00	1.96E-02	1.00E+00	1.96E-02	1.00E+01	1.96E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.08E-07	0.00E+00	0.00E+00	1.18E-05	0.00E+00	4.86E-08	0.00E+00	3.80E-07	0.00E+00	1.27E-05	4.58E+00	2.77E-06	9.16E+00	1.38E-06
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	8.19E-04	0.00E+00	2.56E-02	8.99E-03	0.00E+00	1.55E-03	0.00E+00	1.34E-02	0.00E+00	2.31E-03	0.00E+00	5.27E-02	2.74E+03	1.93E-05	2.74E+04	1.93E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	8.19E-04	0.00E+00	3.64E-04	8.99E-03	0.00E+00	2.21E-05	0.00E+00	1.90E-04	0.00E+00	3.28E-05	0.00E+00	1.04E-02	3.28E+00	3.17E-03	1.31E+01	7.93E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.00E-07	0.00E+00	0.00E+00	1.45E-05	0.00E+00	5.95E-08	0.00E+00	4.66E-07	0.00E+00	1.55E-05	4.58E+00	3.39E-06	9.16E+00	1.70E-06
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	9.78E-04	1.61E-02	1.54E-02	3.31E-02	8.00E-02	7.14E-02	0.00E+00	1.22E-01	0.00E+00	1.47E-03	0.00E+00	3.41E-01	1.17E+01	2.91E-02	1.51E+01	2.25E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.05E-07	0.00E+00	0.00E+00	1.14E-05	0.00E+00	1.24E-07	0.00E+00	3.78E-07	0.00E+00	1.23E-05	2.00E-02	6.15E-04	2.00E-01	6.15E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.61E-07	0.00E+00	0.00E+00	1.58E-05	0.00E+00	1.96E-07	0.00E+00	7.24E-07	0.00E+00	1.72E-05	9.20E-02	1.87E-04	9.20E-01	1.87E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.55E-07	0.00E+00	0.00E+00	1.30E-05	0.00E+00	9.23E-08	0.00E+00	4.24E-07	0.00E+00	1.40E-05	8.00E-02	1.75E-04	2.90E-01	4.82E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.33E+00	0.00E+00	2.15E+01	1.01E+01	0.00E+00	2.47E+00	0.00E+00	1.10E+00	0.00E+00	4.01E-02	0.00E+00	3.65E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	4.66E-04	0.00E+00	3.12E-01	6.36E-03	NA	1.84E-02	NA	1.23E-01	0.00E+00	3.86E-03	0.00E+00	4.64E-01	8.00E+00	5.79E-02	8.00E+01	5.79E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	5.70E-02	0.00E+00	1.96E+00	4.34E-01	0.00E+00	1.41E+00	0.00E+00	1.97E+00	0.00E+00	1.58E-02	0.00E+00	5.85E+00	8.80E+01	6.64E-02	2.84E+02	2.06E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	3.11E-03	NA	2.29E-03	0.00E+00	1.24E-05	0.00E+00	5.54E-03	1.00E+00	5.54E-03	3.00E+00	1.85E-03
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.44E-04	0.00E+00	0.00E+00	3.46E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	4.90E-04	1.50E-02	3.27E-02	2.50E-02	1.96E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.80E-07	0.00E+00	0.00E+00	2.03E-05	0.00E+00	2.99E-08	0.00E+00	6.34E-07	0.00E+00	2.17E-05	7.00E-02	3.09E-04	7.00E-01	3.09E-05
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	2.29E-02	1.50E-02	0.00E+00	3.55E-02	5.07E-02	0.00E+00	1.31E-02	0.00E+00	1.39E-03	0.00E+00	1.39E-01	4.00E+01	3.46E-03	8.00E+01	1.73E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.55E-02	1.08E-03	0.00E+00	3.26E-01	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-01	5.07E+02	7.18E-04	1.13E+03	3.22E-04
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								2.41E+00	0.00E+00	0.00E+00	2.21E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E+01	5.07E+02	4.83E-02	1.13E+03	2.17E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	1.35E-07	0.00E+00	3.75E-07	0.00E+00	1.22E-05	4.58E+00	2.67E-06	9.16E+00	1.34E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	3.70E-05	0.00E+00	4.64E-07	0.00E+00	1.24E-06	0.00E+00	4.00E-05	2.40E-01	1.67E-04	2.40E+00	1.67E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.84E-04	0.00E+00	0.00E+00	1.60E-02	0.00E+00	3.17E-04	0.00E+00	5.44E-04	0.00E+00	1.74E-02	2.40E-01	7.25E-02	2.40E+00	7.25E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	1.74E-04	NA	7.40E-02	0.00E+00	2.14E-05	0.00E+00	7.44E-02	8.50E+00	8.75E-03	2.55E+01	2.92E-03
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E+00	1.51E+00	3.22E-04	1.80E-03	8.81E-04	2.01E-03	2.59E-02	3.40E-03	0.00E+00	5.16E-03	0.00E+00	1.42E-04	0.00E+00	3.96E-02	2.00E-01	1.98E-01	3.30E-01	1.20E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.06E-02	0.00E+00	0.00E+00	8.50E-03	0.00E+00	8.21E-02	0.00E+00	3.61E-03	0.00E+00	1.25E-01	2.63E+02	4.75E-04	7.89E+02	1.58E-04
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.42E+00	1.21E-01	3.07E-01	3.13E+01	1.62E-01	2.94E-01	0.00E+00	8.22E-01	0.00E+00	3.61E-02	0.00E+00	3.65E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							4.83E-05	1.16E-03	0.00E+00	1.10E-04	1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02	7.40E-03	2.43E+00	7.40E-02	2.43E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.96E-07	0.00E+00	0.00E+00	1.73E-05	0.00E+00	7.09E-08	0.00E+00	5.55E-07	0.00E+00	1.85E-05	4.58E+00	4.04E-06	9.16E+00	2.02E-06
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	3.53E-03	0.00E+00	3.41E-02	3.23E-02	0.00E+00	4.57E-03	0.00E+00	1.57E-03	0.00E+00	1.99E-04	0.00E+00	7.63E-02	2.10E-01	3.64E-01	2.10E+00	3.64E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	7.44E-02	1.13E-01	0.00E+00	4.60E-01	1.73E-01	0.00E+00	1.28E+00	0.00E+00	2.22E-02	0.00E+00	2.12E+00	1.60E+02	1.32E-02	3.20E+02	6.62E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-05	9.0E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.7E-04	9.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-02	1.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.8E-04	4.8E-05
**Aldrin/Dieldr

Table O-109
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.77E-10	5.85E-09	1.63E-09	2.37E-06	1.37E-06	3.89E-07	0.00E+00	3.19E-10	0.00E+00	3.56E-10	0.00E+00	4.14E-06	1.00E-06	4.14E+00	1.00E-05	4.14E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.80E-07	0.00E+00	0.00E+00	9.65E-05	0.00E+00	1.99E-06	0.00E+00	2.39E-06	0.00E+00	1.01E-04	8.00E-01	1.27E-04	4.00E+00	2.54E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.78E-06	0.00E+00	0.00E+00	2.98E-04	0.00E+00	4.73E-05	0.00E+00	6.32E-06	0.00E+00	3.53E-04	8.00E-01	4.41E-04	4.00E+00	8.83E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	9.23E-07	0.00E+00	0.00E+00	1.59E-04	0.00E+00	3.17E-06	0.00E+00	5.48E-06	0.00E+00	1.69E-04	8.00E-01	2.11E-04	4.00E+00	4.22E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.75E-08	0.00E+00	0.00E+00	1.33E-05	0.00E+00	2.25E-08	0.00E+00	3.19E-07	0.00E+00	1.38E-05	2.00E-01	6.88E-05	1.00E+00	1.38E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.56E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	2.69E-07	0.00E+00	6.41E-07	0.00E+00	2.74E-05	4.58E+00	5.98E-06	9.16E+00	2.99E-06
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.67E+00	4.26E+00	0.00E+00	1.29E-01	2.05E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E+02	1.93E+00	1.10E+02	1.93E+01	1.10E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	3.22E-03	0.00E+00	7.91E-04	0.00E+00	1.57E-04	0.00E+00	4.43E-03	1.25E-01	3.55E-02	1.25E+00	3.55E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	2.15E-04	0.00E+00	8.88E-06	0.00E+00	5.23E-06	0.00E+00	2.31E-04	6.85E-02	3.37E-03	6.85E-01	3.37E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.88E-07	0.00E+00	0.00E+00	9.96E-05	0.00E+00	2.55E-07	0.00E+00	2.42E-06	0.00E+00	1.03E-04	6.80E-02	1.51E-03	6.90E-01	1.49E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	2.96E-04	0.00E+00	6.45E-07	0.00E+00	6.46E-06	0.00E+00	3.04E-04	6.80E-02	4.48E-03	6.90E-01	4.41E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	5.65E-04	0.00E+00	6.03E-07	0.00E+00	2.12E-05	0.00E+00	5.90E-04	6.80E-02	8.68E-03	6.90E-01	8.55E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-07	0.00E+00	0.00E+00	5.28E-05	0.00E+00	7.94E-06	0.00E+00	1.45E-06	0.00E+00	6.26E-05	6.80E-02	9.20E-04	6.90E-01	9.07E-05
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.19E-01	0.00E+00	0.00E+00	5.72E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E+00	5.10E+00	1.15E+00	1.98E+01	2.95E-01
Benzoic Acid	0.00E+00	mg/L	6.80E-02	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	4.00E-03	0.00E+00	3.88E-03	0.00E+00	1.16E-04	0.00E+00	8.03E-03	4.00E+00	2.01E-03	4.00E+01	2.01E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-02	1.83E+01	1.50E-03	1.83E+02	1.50E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	7.58E-05	1.59E-04	0.00E+00	6.49E-03	4.78E-03	0.00E+00	6.49E-03	0.00E+00	5.24E-04	0.00E+00	1.85E-02	1.00E+00	1.85E-02	1.00E+01	1.85E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.77E-08	0.00E+00	0.00E+00	1.31E-05	0.00E+00	1.34E-07	0.00E+00	3.20E-07	0.00E+00	1.36E-05	4.58E+00	2.98E-06	9.16E+00	1.49E-06
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.04E-03	0.00E+00	5.00E-03	1.87E-02	0.00E+00	1.02E-03	0.00E+00	1.03E-01	0.00E+00	5.95E-03	0.00E+00	1.35E-01	2.74E+03	4.92E-05	2.74E+04	4.92E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.04E-03	0.00E+00	7.10E-05	1.87E-02	0.00E+00	1.45E-05	0.00E+00	1.46E-03	0.00E+00	8.45E-05	0.00E+00	2.14E-02	3.28E+00	6.53E-03	1.31E+01	1.63E-03
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	1.73E-05	0.00E+00	1.77E-07	0.00E+00	4.22E-07	0.00E+00	1.80E-05	4.58E+00	3.93E-06	9.16E+00	1.97E-06
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.39E-03	3.22E-03	3.08E-03	1.48E-01	1.81E-01	4.34E-02	0.00E+00	7.58E-02	0.00E+00	1.64E-03	0.00E+00	4.58E-01	1.17E+01	3.91E-02	1.51E+01	3.02E-02
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	1.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.69E-08	0.00E+00	0.00E+00	1.26E-05	0.00E+00	5.40E-06	0.00E+00	3.16E-07	0.00E+00	1.84E-05	2.00E-02	9.19E-04	2.00E-01	9.19E-05
Endrin	0.00E+00	mg/L	2.75E-04	mg/kg	1.00E+00	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	1.87E-05	0.00E+00	1.87E-07	0.00E+00	4.96E-07	0.00E+00	1.95E-05	9.20E-02	2.11E-04	9.20E-01	2.11E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.13E-08	0.00E+00	0.00E+00	1.52E-05	0.00E+00	7.39E-08	0.00E+00	3.76E-07	0.00E+00	1.57E-05	8.00E-02	1.96E-04	2.90E-01	5.42E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.40E+00	0.00E+00	4.16E+00	4.30E+01	0.00E+00	3.47E+00	0.00E+00	7.12E-01	0.00E+00	3.07E-02	0.00E+00	5.38E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.96E-04	0.00E+00	7.38E-02	1.61E-02	NA	1.46E-02	NA	8.55E-02	0.00E+00	3.50E-03	0.00E+00	1.94E-01	8.00E+00	2.43E-02	8.00E+01	2.43E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.72E-02	0.00E+00	3.87E-01	2.77E+00	0.00E+00	9.17E-01	0.00E+00	1.66E+00	0.00E+00	1.32E-02	0.00E+00	5.83E+00	8.80E+01	6.62E-02	2.84E+02	2.05E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	1.89E-03	NA	1.42E-03	0.00E+00	9.07E-06	0.00E+00	3.35E-03	1.00E+00	3.35E-03	3.00E+00	1.12E-03
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	3.43E-05	0.00E+00	0.00E+00	2.76E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.10E-04	1.50E-02	2.07E-02	2.50E-02	1.24E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	2.08E-07	0.00E+00	5.82E-07	0.00E+00	2.55E-05	7.00E-02	3.65E-04	7.00E-01	3.65E-05
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	4.55E-03	2.94E-03	0.00E+00	1.13E-01	1.49E-01	0.00E+00	8.39E-03	0.00E+00	1.06E-03	0.00E+00	2.79E-01	4.00E+01	6.98E-03	8.00E+01	3.49E-03
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.14E-02	3.10E-04	0.00E+00	1.18E+00	6.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	5.07E+02	2.46E-03	1.13E+03	1.10E-03
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.81E+00	0.00E+00	0.00E+00	9.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E+01	5.07E+02	1.92E-01	1.13E+03	8.59E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	8.22E-08	0.00E+00	3.00E-07	0.00E+00	1.24E-05	4.58E+00	2.70E-06	9.16E+00	1.35E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.66E-07	0.00E+00	0.00E+00	5.95E-05	0.00E+00	5.25E-07	0.00E+00	1.51E-06	0.00E+00	6.19E-05	2.40E-01	2.58E-04	2.40E+00	2.58E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	2.79E-02	0.00E+00	5.29E-04	0.00E+00	7.20E-04	0.00E+00	2.93E-02	2.40E-01	1.22E-01	2.40E+00	1.22E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	1.42E-03	NA	9.34E-02	0.00E+00	6.88E-05	0.00E+00	9.50E-02	8.50E+00	1.12E-02	2.55E+01	3.72E-03
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	3.81E-04	3.76E-04	1.71E-04	1.40E-03	1.81E-02	2.16E-03	0.00E+00	3.40E-03	0.00E+00	1.19E-04	0.00E+00	2.61E-02	2.00E-01	1.31E-01	3.30E-01	7.92E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.91E-03	0.00E+00	0.00E+00	1.76E-02	0.00E+00	8.87E-02	0.00E+00	3.51E-03	0.00E+00	1.16E-01	2.63E+02	4.40E-04	7.89E+02	1.47E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.74E+00	3.11E-02	9.53E-02	9.10E+01	7.00E-01	1.16E+00	0.00E+00	1.43E+00	0.00E+00	5.65E-02	0.00E+00	9.92E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							6.22E-05	2.48E-04	0.00E+00	1.78E-02	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-02	7.40E-03	4.06E+00	7.40E-02	4.06E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-07	0.00E+00	0.00E+00	2.12E-05	0.00E+00	2.17E-07	0.00E+00	5.17E-07	0.00E+00	2.21E-05	4.58E+00	4.82E-06	9.16E+00	2.41E-06
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	5.09E-03	0.00E+00	6.35E-03	9.76E-02	0.00E+00	5.99E-03	0.00E+00	1.09E-03	0.00E+00	1.34E-04	0.00E+00	1.16E-01	2.10E-01	5.54E-01	2.10E+00	5.54E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	1.48E-02	2.44E-02	0.00E+00	1.19E+00	1.25E-01	0.00E+00	8.44E-01	0.00E+00	3.93E-02	0.00E+00	2.24E+00	1.60E+02	1.40E-02	3.20E+02	7.01E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.0E-05	1.0E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.8E-04	1.6E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-02	1.9E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.5E-03	1.5E-04
**Aldrin

Table O-110
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.59E-10	1.66E-09	1.32E-09	2.73E-07	8.29E-08	1.56E-07	0.00E+00	2.19E-10	0.00E+00	2.23E-10	0.00E+00	5.16E-07	1.00E-06	5.16E-01	1.00E-05	5.16E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-07	0.00E+00	0.00E+00	3.18E-05	0.00E+00	3.98E-07	0.00E+00	3.36E-05	8.00E-01	4.19E-05	4.00E+00	8.39E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.28E-06	0.00E+00	0.00E+00	1.24E-04	0.00E+00	7.48E-06	0.00E+00	4.32E-06	0.00E+00	1.37E-04	8.00E-01	1.71E-04	4.00E+00	3.42E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	4.42E-07	0.00E+00	0.00E+00	4.40E-05	0.00E+00	5.31E-07	0.00E+00	1.40E-06	0.00E+00	4.64E-05	8.00E-01	5.79E-05	4.00E+00	1.16E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.29E-08	0.00E+00	0.00E+00	7.24E-06	0.00E+00	1.52E-08	0.00E+00	2.28E-07	0.00E+00	7.55E-06	2.00E-01	3.78E-05	1.00E+00	7.55E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.31E-07	0.00E+00	0.00E+00	1.27E-05	0.00E+00	5.22E-08	0.00E+00	4.09E-07	0.00E+00	1.33E-05	4.58E+00	2.90E-06	9.16E+00	1.45E-06
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.24E-01	3.11E+00	0.00E+00	7.14E-02	1.50E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+02	1.93E+00	7.97E+01	1.93E+01	7.97E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	6.78E-04	0.00E+00	3.35E-04	0.00E+00	8.34E-05	0.00E+00	1.31E-03	1.25E-01	1.05E-02	1.25E+00	1.05E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.03E-04	0.00E+00	3.80E-07	0.00E+00	3.31E-06	0.00E+00	1.08E-04	6.85E-02	1.58E-03	6.85E-01	1.58E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.01E-07	0.00E+00	0.00E+00	4.89E-05	0.00E+00	1.80E-07	0.00E+00	1.57E-06	0.00E+00	5.11E-05	6.80E-02	7.52E-04	6.90E-01	7.41E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	1.38E-04	0.00E+00	2.11E-07	0.00E+00	2.44E-06	0.00E+00	1.42E-04	6.80E-02	2.08E-03	6.90E-01	2.05E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.78E-04	0.00E+00	4.64E-08	0.00E+00	1.01E-05	0.00E+00	1.89E-04	6.80E-02	2.79E-03	6.90E-01	2.75E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.28E-07	0.00E+00	0.00E+00	2.84E-05	0.00E+00	7.40E-06	0.00E+00	1.03E-06	0.00E+00	3.71E-05	6.80E-02	5.46E-04	6.90E-01	5.38E-05
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	9.59E-02	0.00E+00	0.00E+00	4.62E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E+00	5.10E+00	9.26E-01	1.98E+01	2.38E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	1.73E-03	0.00E+00	2.91E-03	0.00E+00	6.61E-05	0.00E+00	4.73E-03	4.00E+00	1.18E-03	4.00E+01	1.18E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	9.64E-05	0.00E+00	0.00E+00	4.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-03	1.83E+01	2.68E-04	1.83E+02	2.69E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	7.58E-05	1.25E-04	0.00E+00	4.87E-04	4.39E-03	0.00E+00	5.69E-03	0.00E+00	3.01E-04	0.00E+00	1.11E-02	1.00E+00	1.11E-02	1.00E+01	1.11E-03
Chlordane	0.00E+00	mg/L	1.73E-04	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.17E-08	0.00E+00	0.00E+00	6.98E-06	0.00E+00	2.86E-08	0.00E+00	2.24E-07	0.00E+00	7.30E-06	4.58E+00	1.59E-06	9.16E+00	7.97E-07
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	8.19E-04	0.00E+00	4.50E-03	5.30E-03	0.00E+00	9.16E-04	0.00E+00	7.91E-03	0.00E+00	1.36E-03	0.00E+00	2.08E-02	2.74E+03	7.60E-06	2.74E+04	7.60E-07
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	8.19E-04	0.00E+00	6.39E-05	5.30E-03	0.00E+00	1.30E-05	0.00E+00	1.12E-04	0.00E+00	1.93E-05	0.00E+00	6.33E-03	3.28E+00	1.93E-03	1.31E+01	4.81E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.78E-08	0.00E+00	0.00E+00	8.55E-06	0.00E+00	3.51E-08	0.00E+00	2.75E-07	0.00E+00	8.95E-06	4.58E+00	1.95E-06	9.16E+00	9.77E-07
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	9.78E-04	2.82E-03	2.70E-03	1.95E-02	4.72E-02	4.21E-02	0.00E+00	7.21E-02	0.00E+00	8.66E-04	0.00E+00	1.88E-01	1.17E+01	1.61E-02	1.51E+01	1.24E-02
Dieldrin	0.00E+00	mg/L	1.72E-04	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.12E-08	0.00E+00	0.00E+00	6.72E-06	0.00E+00	7.32E-08	0.00E+00	2.23E-07	0.00E+00	7.08E-06	2.00E-02	3.54E-04	2.00E-01	3.54E-05
Endrin	0.00E+00	mg/L	2.38E-04	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	9.85E-08	0.00E+00	0.00E+00	9.29E-06	0.00E+00	1.16E-07	0.00E+00	4.27E-07	0.00E+00	9.93E-06	9.20E-02	1.08E-04	9.20E-01	1.08E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.00E-08	0.00E+00	0.00E+00	7.67E-06	0.00E+00	5.44E-08	0.00E+00	2.50E-07	0.00E+00	8.05E-06	8.00E-02	1.01E-04	2.90E-01	2.78E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.33E+00	0.00E+00	3.77E+00	5.97E+00	0.00E+00	1.45E+00	0.00E+00	6.46E-01	0.00E+00	2.37E-02	0.00E+00	1.32E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	4.66E-04	0.00E+00	5.48E-02	3.75E-03	NA	1.08E-02	NA	7.24E-02	0.00E+00	2.28E-03	0.00E+00	1.44E-01	8.00E+00	1.81E-02	8.00E+01	1.81E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	5.70E-02	0.00E+00	3.44E-01	2.56E-01	0.00E+00	8.32E-01	0.00E+00	1.16E+00	0.00E+00	9.31E-03	0.00E+00	2.66E+00	8.80E+01	3.02E-02	2.84E+02	9.37E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	1.83E-03	NA	1.35E-03	0.00E+00	7.31E-06	0.00E+00	3.21E-03	1.00E+00	3.21E-03	3.00E+00	1.07E-03
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	2.54E-05	0.00E+00	0.00E+00	2.04E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.29E-04	1.50E-02	1.53E-02	2.50E-02	9.17E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.19E-07	0.00E+00	0.00E+00	1.20E-05	0.00E+00	1.76E-08	0.00E+00	3.74E-07	0.00E+00	1.25E-05	7.00E-02	1.78E-04	7.00E-01	1.78E-05
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	4.02E-03	2.63E-03	0.00E+00	2.09E-02	2.99E-02	0.00E+00	7.72E-03	0.00E+00	8.19E-04	0.00E+00	6.60E-02	4.00E+01	1.65E-03	8.00E+01	8.25E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.55E-02	1.90E-04	0.00E+00	1.92E-01	8.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-01	5.07E+02	4.51E-04	1.13E+03	2.02E-04
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								2.41E+00	0.00E+00	0.00E+00	1.30E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+01	5.07E+02	3.05E-02	1.13E+03	1.37E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-06	0.00E+00	7.98E-08	0.00E+00	2.21E-07	0.00E+00	7.04E-06	4.58E+00	1.54E-06	9.16E+00	7.69E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.18E-05	0.00E+00	2.73E-07	0.00E+00	7.28E-07	0.00E+00	2.31E-05	2.40E-01	9.61E-05	2.40E+00	9.61E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	9.41E-03	0.00E+00	1.87E-04	0.00E+00	3.21E-04	0.00E+00	1.00E-02	2.40E-01	4.17E-02	2.40E+00	4.17E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	1.03E-04	NA	4.36E-02	0.00E+00	1.26E-05	0.00E+00	4.38E-02	8.50E+00	5.15E-03	2.55E+01	1.72E-03
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	3.22E-04	3.17E-04	1.55E-04	1.18E-03	1.53E-02	2.01E-03	0.00E+00	3.04E-03	0.00E+00	8.34E-05	0.00E+00	2.24E-02	2.00E-01	1.12E-01	3.30E-01	6.78E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.38E-03	0.00E+00	0.00E+00	5.01E-03	0.00E+00	4.84E-02	0.00E+00	2.13E-03	0.00E+00	6.09E-02	2.63E+02	2.32E-04	7.89E+02	7.72E-05
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.42E+00	2.12E-02	5.38E-02	1.85E+01	9.56E-02	1.73E-01	0.00E+00	4.85E-01	0.00E+00	2.13E-02	0.00E+00	2.27E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							4.83E-05	2.04E-04	0.00E+00	6.50E-05	9.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	7.40E-03	1.37E+00	7.40E-02	1.37E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	4.18E-08	0.00E+00	3.28E-07	0.00E+00	1.07E-05	4.58E+00	2.33E-06	9.16E+00	1.16E-06
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	3.53E-03	0.00E+00	5.99E-03	1.91E-02	0.00E+00	2.70E-03	0.00E+00	9.25E-04	0.00E+00	1.17E-04	0.00E+00	3.23E-02	2.10E-01	1.54E-01	2.10E+00	1.54E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	1.31E-02	1.99E-02	0.00E+00	2.71E-01	1.02E-01	0.00E+00	7.53E-01	0.00E+00	1.31E-02	0.00E+00	1.17E+00	1.60E+02	7.32E-03	3.20E+02	3.66E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-05	5.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.7E-04	5.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.7E-03	7.7E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.7E-04	2.7E-05

Table O-111
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.08E-09	0.00E+00	5.52E-08	0.00E+00	0.00E+00	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	1.00E-06	9.49E+00	1.00E-05	9.49E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	8.00E-01	2.98E-03	4.00E+00	5.96E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	6.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03	8.00E-01	8.76E-03	4.00E+00	1.75E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	8.00E-01	3.97E-03	4.00E+00	7.94E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.84E-06	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	2.00E-01	1.77E-03	1.00E+00	3.54E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	4.58E+00	1.37E-04	9.16E+00	6.86E-05
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E+00	1.93E+00	2.32E+00	1.93E+01	2.32E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.93E-03	0.00E+00	0.00E+00	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-02	1.25E-01	6.20E-01	1.25E+00	6.20E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03	6.85E-02	7.59E-02	6.85E-01	7.59E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	6.80E-02	3.45E-02	6.80E-01	3.45E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	7.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-03	6.80E-02	1.04E-01	6.80E-01	1.04E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	6.80E-02	1.69E-01	6.80E-01	1.69E-02
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	6.80E-02	2.00E-02	6.80E-01	2.00E-03
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-02	4.00E+00	9.00E-03	4.00E+01	9.00E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	1.33E+00	9.40E-01	9.40E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	5.52E-03	0.00E+00	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-01	1.00E+00	1.23E-01	1.00E+01	1.23E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.70E-06	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	4.58E+00	7.20E-05	9.16E+00	3.60E-05
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.79E-03	0.00E+00	1.60E-01	0.00E+00	0.00E+00	2.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-01	2.74E+03	6.80E-05	2.74E+04	6.80E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.79E-03	0.00E+00	2.27E-03	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03	3.28E+00	1.64E-03	1.31E+01	4.10E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	4.58E+00	9.40E-05	9.16E+00	4.70E-05
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	5.59E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01	3.72E-03	0.00E+00	1.03E-01	0.00E+00	0.00E+00	1.05E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00	1.17E+01	9.87E-02	1.51E+01	7.63E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-06	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	2.00E-02	1.56E-02	2.00E-01	1.56E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.87E-06	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	9.20E-02	4.98E-03	9.20E-01	4.98E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	8.00E-02	4.96E-03	2.90E-01	1.37E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.40E+00	0.00E+00	1.40E+02	0.00E+00	0.00E+00	8.43E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	1.59E-03	0.00E+00	2.11E+00	0.00E+00	NA	3.00E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	8.00E+00	3.02E-01	8.00E+01	3.02E-02
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.06E-01	0.00E+00	1.34E+01	0.00E+00	0.00E+00	2.27E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E+01	8.80E+01	4.13E-01	2.84E+02	1.28E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	7.94E-04	0.00E+00	0.00E+00	4.51E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	1.32E+01	3.48E-03	3.96E+01	1.16E-03
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.79E-06	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	7.00E-02	8.61E-03	7.00E-01	8.61E-04
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.72E-02	6.72E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.54E-02	0.00E+00	0.00E+00	3.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E+00	4.00E+01	8.92E-02	8.00E+01	4.46E-02
Nitrate	7.46E-01	mg/L	0.00E+00	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.64E-01	0.00E+00	2.60E-02	0.00E+00	0.00E+00	2.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-01	5.07E+02	8.25E-04	1.13E+03	3.70E-04
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E+01	5.07E+02	2.54E-02	1.13E+03	1.14E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	4.58E+00	6.64E-05	9.16E+00	3.32E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	2.40E-01	6.19E-03	2.40E+00	6.19E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.43E-03	0.00E+00	0.00E+00	8.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.56E-01	2.40E-01	3.57E+00	2.40E+00	3.57E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	1.10E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	8.50E+00	1.45E-03	2.55E+01	4.82E-04
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	5.02E-01	4.62E-01	4.62E-01	1.95E-01	1.95E-01	1.02E-03	0.00E+00	5.55E-03	0.00E+00	0.00E+00	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-02	2.00E-01	2.87E-01	3.30E-01	1.74E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.99E-01	0.00E+00	0.00E+00	4.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-01	2.63E+02	2.38E-03	7.89E+02	7.92E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.27E+01	0.00E+00	2.88E+01	0.00E+00	0.00E+00	2.52E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E+02	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	7.40E-03	2.24E-02	7.40E-02	2.24E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	4.58E+00	1.18E-04	9.16E+00	5.89E-05
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.36E-02	0.00E+00	2.15E-01	0.00E+00	0.00E+00	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-01	2.10E-01	1.78E+00	2.10E+00	1.78E-01
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.03E-01	8.03E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	8.33E-01	0.00E+00	0.00E+00	3.08E+00	0.00E+00	0.00E+00	0.00E+00

Table O-112
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.76E-09	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	1.00E-06	3.81E+00	1.00E-05	3.81E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04	8.00E-01	1.01E-03	4.00E+00	2.01E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	8.00E-01	3.78E-03	4.00E+00	7.56E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	8.00E-01	1.39E-03	4.00E+00	2.78E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.53E-06	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	2.00E-01	9.13E-04	1.00E+00	1.83E-04
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.35E-06	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	4.58E+00	6.73E-05	9.16E+00	3.36E-05
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E+00	1.93E+00	1.28E+00	1.93E+01	1.28E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	7.15E-03	0.00E+00	0.00E+00	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-02	1.25E-01	1.89E-01	1.25E+00	1.89E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	6.85E-02	3.67E-02	6.85E-01	3.67E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	6.80E-02	1.71E-02	6.80E-01	1.71E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	6.80E-02	4.90E-02	6.80E-01	4.90E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03	6.80E-02	6.35E-02	6.80E-01	6.35E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	6.80E-02	1.09E-02	6.80E-01	1.09E-03
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	4.00E+00	4.58E-03	4.00E+01	4.58E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	1.33E+00	1.03E+00	1.03E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	1.00E+00	1.13E-01	1.00E+01	1.13E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.01E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	4.58E+00	4.66E-05	9.16E+00	2.33E-05
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.19E-03	0.00E+00	1.50E-01	0.00E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-01	2.74E+03	6.35E-05	2.74E+04	6.35E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.19E-03	0.00E+00	2.13E-03	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-03	3.28E+00	1.41E-03	1.31E+01	3.52E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	4.58E+00	4.74E-05	9.16E+00	2.37E-05
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	6.06E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	2.61E-03	0.00E+00	9.05E-02	0.00E+00	0.00E+00	1.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	1.17E+01	9.49E-02	1.51E+01	7.34E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	2.00E-02	8.45E-03	2.00E-01	8.45E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	9.20E-02	2.76E-03	9.20E-01	2.76E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	8.00E-02	2.49E-03	2.90E-01	6.86E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.55E+00	0.00E+00	1.27E+02	0.00E+00	0.00E+00	3.52E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	1.25E-03	0.00E+00	1.68E+00	0.00E+00	NA	2.38E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+00	8.00E+00	2.40E-01	8.00E+01	2.40E-02
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.52E-01	0.00E+00	1.16E+01	0.00E+00	0.00E+00	2.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E+01	8.80E+01	3.62E-01	2.84E+02	1.12E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	7.08E-04	0.00E+00	0.00E+00	4.34E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-02	1.32E+01	3.34E-03	3.96E+01	1.11E-03
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.01E-06	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	7.00E-02	4.18E-03	7.00E-01	4.18E-04
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.64E-02	0.00E+00	0.00E+00	7.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-01	4.00E+01	1.98E-02	8.00E+01	9.88E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.50E-02	0.00E+00	1.57E-02	0.00E+00	0.00E+00	3.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-01	5.07E+02	2.90E-04	1.13E+03	1.30E-04
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								6.44E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E+00	5.07E+02	1.27E-02	1.13E+03	5.70E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	4.58E+00	3.58E-05	9.16E+00	1.79E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.78E-06	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	2.40E-01	2.21E-03	2.40E+00	2.21E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.30E-03	0.00E+00	0.00E+00	3.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-01	2.40E-01	1.48E+00	2.40E+00	1.48E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	1.60E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	8.50E+00	2.70E-04	2.55E+01	9.00E-05
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	8.59E-04	0.00E+00	5.17E-03	0.00E+00	0.00E+00	4.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-02	2.00E-01	2.71E-01	3.30E-01	1.64E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.81E-01	0.00E+00	0.00E+00	1.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	2.63E+02	1.15E-03	7.89E+02	3.84E-04
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.13E+00	0.00E+00	1.92E+01	0.00E+00	0.00E+00	4.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	7.40E-03	1.74E-02	7.40E-02	1.74E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	4.58E+00	5.70E-05	9.16E+00	2.85E-05
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	9.43E-03	0.00E+00	2.02E-01	0.00E+00	0.00E+00	6.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-01	2.10E-01	1.32E+00	2.10E+00	1.32E-01
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	6.69E-01	0.00E+00	0.00E+00	2.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E+00	1.60E+02	1.96E-02	3.20E+02	9.82E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.5E-04	1.3E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.2E-03	1.2E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.8E-01	1.8E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/

Table O-113
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.97E-10	0.00E+00	3.74E-09	0.00E+00	0.00E+00	8.90E-08	0.00E+00	7.28E-11	0.00E+00	5.69E-09	1.22E-09	1.01E-07	1.00E-06	1.01E-01	1.00E-05	1.01E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	4.60E-07	0.00E+00	3.86E-05	8.28E-06	7.10E-05	8.00E-01	8.87E-05	4.00E+00	1.77E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E-05	0.00E+00	1.04E-05	0.00E+00	9.74E-05	2.09E-05	1.98E-04	8.00E-01	2.48E-04	4.00E+00	4.96E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-06	0.00E+00	2.97E-05	0.00E+00	5.91E-07	0.00E+00	7.17E-05	1.54E-05	1.19E-04	8.00E-01	1.49E-04	4.00E+00	2.98E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-06	0.00E+00	5.59E-09	0.00E+00	5.55E-06	1.19E-06	1.03E-05	2.00E-01	5.13E-05	1.00E+00	1.03E-05
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00E+00	6.02E-08	0.00E+00	1.00E-05	2.15E-06	1.85E-05	4.58E+00	4.03E-06	9.16E+00	2.02E-06
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.72E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E+00	1.93E+00	8.89E-01	1.93E+01	8.89E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	1.61E-04	0.00E+00	2.23E-03	4.78E-04	4.07E-03	1.25E-01	3.25E-02	1.25E+00	3.25E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	2.01E-06	0.00E+00	8.28E-05	1.77E-05	1.54E-04	6.85E-02	2.25E-03	6.85E-01	2.25E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	5.62E-08	0.00E+00	3.74E-05	8.01E-06	6.87E-05	6.80E-02	1.01E-03	6.90E-01	9.96E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	1.45E-07	0.00E+00	1.01E-04	2.17E-05	1.94E-04	6.80E-02	2.85E-03	6.90E-01	2.80E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	1.15E-07	0.00E+00	2.82E-04	6.05E-05	4.56E-04	6.80E-02	6.71E-03	6.90E-01	6.61E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	1.91E-06	0.00E+00	2.44E-05	5.24E-06	4.52E-05	6.80E-02	6.64E-04	6.90E-01	6.55E-05
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.26E-04	0.00E+00	6.82E-04	1.46E-04	1.51E-03	4.00E+00	3.78E-04	4.00E+01	3.78E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	1.33E+00	9.40E-01	9.40E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	1.51E-03	0.00E+00	8.62E-03	1.85E-03	1.35E-02	1.00E+00	1.35E-02	1.00E+01	1.35E-03
Chlordane	0.00E+00	mg/L	1.93E-04	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-06	0.00E+00	3.16E-08	0.00E+00	5.26E-06	1.13E-06	9.69E-06	4.58E+00	2.12E-06	9.16E+00	1.06E-06
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.07E-03	0.00E+00	1.09E-02	0.00E+00	0.00E+00	2.21E-04	0.00E+00	2.23E-02	0.00E+00	9.03E-02	1.94E-02	1.44E-01	2.74E+03	5.27E-05	2.74E+04	5.27E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.07E-03	0.00E+00	1.54E-04	0.00E+00	0.00E+00	3.13E-06	0.00E+00	3.17E-04	0.00E+00	1.28E-03	2.75E-04	3.10E-03	3.28E+00	9.45E-04	1.31E+01	2.36E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.39E-07	0.00E+00	0.00E+00	4.03E-06	0.00E+00	4.12E-08	0.00E+00	6.87E-06	1.47E-06	1.27E-05	4.58E+00	2.76E-06	9.16E+00	1.38E-06
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	5.59E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01	1.43E-03	0.00E+00	6.97E-03	0.00E+00	0.00E+00	9.90E-03	0.00E+00	1.72E-02	0.00E+00	2.60E-02	5.57E-03	6.71E-02	1.17E+01	5.73E-03	1.51E+01	4.43E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.79E-07	0.00E+00	0.00E+00	2.92E-06	0.00E+00	1.25E-06	0.00E+00	5.14E-06	1.10E-06	1.06E-05	2.00E-02	5.29E-04	2.00E-01	5.29E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	2.62E-07	0.00E+00	0.00E+00	4.29E-06	0.00E+00	4.29E-08	0.00E+00	7.97E-06	1.71E-06	1.43E-05	9.20E-02	1.55E-04	9.20E-01	1.55E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.24E-07	0.00E+00	0.00E+00	3.71E-06	0.00E+00	1.81E-08	0.00E+00	6.43E-06	1.38E-06	1.18E-05	8.00E-02	1.47E-04	2.90E-01	4.06E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.46E+00	0.00E+00	9.53E+00	0.00E+00	0.00E+00	7.95E-01	0.00E+00	1.63E-01	0.00E+00	4.92E-01	1.05E-01	1.35E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	6.12E-04	0.00E+00	1.43E-01	0.00E+00	NA	2.83E-03	NA	1.78E-02	0.00E+00	4.76E-02	1.02E-02	2.22E-01	8.00E+00	2.78E-02	8.00E+01	2.78E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.91E-02	0.00E+00	9.12E-01	0.00E+00	0.00E+00	2.14E-01	0.00E+00	3.90E-01	0.00E+00	2.18E-01	4.67E-02	1.86E+00	8.80E+01	2.11E-02	2.84E+02	6.55E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	4.25E-04	NA	3.17E-04	0.00E+00	1.38E-04	2.97E-05	9.64E-04	1.00E+00	9.64E-04	3.00E+00	3.21E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.25E-07	0.00E+00	0.00E+00	5.64E-06	0.00E+00	4.78E-08	0.00E+00	9.35E-06	2.00E-06	1.74E-05	7.00E-02	2.48E-04	7.00E-01	2.48E-05
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.72E-02	6.72E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	6.47E-03	0.00E+00	0.00E+00	3.27E-02	0.00E+00	1.86E-03	0.00E+00	1.63E-02	3.50E-03	6.09E-02	4.00E+01	1.52E-03	8.00E+01	7.61E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.30E-02	0.00E+00	1.77E-03	0.00E+00	0.00E+00	2.15E-03	0.00E+00	2.64E-03	0.00E+00	7.32E-03	1.57E-03	7.84E-02	5.07E+02	1.55E-04	1.13E+03	6.94E-05
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E+00	5.07E+02	9.73E-03	1.13E+03	4.37E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	1.88E-08	0.00E+00	4.79E-06	1.03E-06	8.73E-06	4.58E+00	1.91E-06	9.16E+00	9.53E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.55E-07	0.00E+00	0.00E+00	1.39E-05	0.00E+00	1.22E-07	0.00E+00	2.46E-05	5.27E-06	4.47E-05	2.40E-01	1.86E-04	2.40E+00	1.86E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	8.01E-03	0.00E+00	1.52E-04	0.00E+00	1.45E-02	3.11E-03	2.63E-02	2.40E-01	1.09E-01	2.40E+00	1.09E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	1.04E-04	NA	1.09E-02	0.00E+00	3.54E-04	7.59E-05	1.16E-02	8.50E+00	1.36E-03	2.55E+01	4.53E-04
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	5.02E-01	4.62E-01	4.62E-01	1.95E-01	1.95E-01	3.91E-04	0.00E+00	3.76E-04	0.00E+00	0.00E+00	4.79E-04	0.00E+00	7.44E-04	0.00E+00	1.83E-03	3.92E-04	4.21E-03	2.00E-01	2.11E-02	3.30E-01	1.28E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	4.02E-03	0.00E+00	2.02E-02	0.00E+00	5.60E-02	1.20E-02	1.06E-01	2.63E+02	4.02E-04	7.89E+02	1.34E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.86E+00	0.00E+00	1.95E+00	0.00E+00	0.00E+00	2.38E+00	0.00E+00	2.92E+00	0.00E+00	8.09E+00	1.73E+00	2.19E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	8.62E-03	7.40E-02	8.62E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.99E-07	0.00E+00	0.00E+00	5.04E-06	0.00E+00	5.16E-08	0.00E+00	8.61E-06	1.84E-06	1.58E-05	4.58E+00	3.46E-06	9.16E+00	1.73E-06
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	5.22E-03	0.00E+00	1.46E-02	0.00E+00	0.00E+00	1.37E-03	0.00E+00	2.49E-04	0.00E+00	2.15E-03	4.61E-04	2.40E-02	2.10E-01	1.14E-01	2.10E+00	1.14E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.03E-01	8.03E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	5.65E-02	0.00E+00	0.00E+00	2.90E-02	0.00E+00	1.94E-01	0.00E+00	6.36E-01	1.36E-01	1.05E+00	1.60E+02	6.58E-03	3.20E+02	3.29E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.4E-05	7.1E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.9E-04	9.7E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-02	1.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+

Table O-114
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
																mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.76E-10	0.00E+00	3.01E-09	0.00E+00	0.00E+00	3.55E-08	0.00E+00	5.00E-11	0.00E+00	3.56E-09	7.62E-10	4.36E-08	1.00E-06	4.36E-02	1.00E-05	4.36E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.82E-07	0.00E+00	0.00E+00	7.48E-06	0.00E+00	9.36E-08	0.00E+00	1.71E-05	3.66E-06	2.91E-05	8.00E-01	3.64E-05	4.00E+00	7.28E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	2.81E-05	0.00E+00	1.70E-06	0.00E+00	6.87E-05	1.47E-05	1.16E-04	8.00E-01	1.45E-04	4.00E+00	2.90E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	1.03E-05	0.00E+00	1.25E-07	0.00E+00	2.31E-05	4.94E-06	3.95E-05	8.00E-01	4.94E-05	4.00E+00	9.88E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.71E-07	0.00E+00	0.00E+00	1.70E-06	0.00E+00	3.57E-09	0.00E+00	3.75E-06	8.04E-07	6.43E-06	2.00E-01	3.21E-05	1.00E+00	6.43E-06
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.95E-07	0.00E+00	0.00E+00	2.87E-06	0.00E+00	1.18E-08	0.00E+00	6.45E-06	1.38E-06	1.10E-05	4.58E+00	2.40E-06	9.16E+00	1.20E-06
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-01	1.93E+00	4.91E-01	1.93E+01	4.91E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.85E-04	0.00E+00	0.00E+00	1.56E-04	0.00E+00	7.68E-05	0.00E+00	1.34E-03	2.87E-04	2.34E-03	1.25E-01	1.88E-02	1.25E+00	1.88E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.40E-06	0.00E+00	0.00E+00	2.34E-05	0.00E+00	8.61E-08	0.00E+00	5.25E-05	1.12E-05	8.96E-05	6.85E-02	1.31E-03	6.85E-01	1.31E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	1.08E-05	0.00E+00	3.98E-08	0.00E+00	2.43E-05	5.20E-06	4.14E-05	6.80E-02	6.09E-04	6.90E-01	6.00E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	3.10E-06	0.00E+00	0.00E+00	3.10E-05	0.00E+00	4.75E-08	0.00E+00	3.85E-05	8.25E-06	8.09E-05	6.80E-02	1.19E-03	6.90E-01	1.17E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	4.02E-05	0.00E+00	1.05E-08	0.00E+00	1.59E-04	3.42E-05	2.38E-04	6.80E-02	3.49E-03	6.90E-01	3.44E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.99E-07	0.00E+00	0.00E+00	6.90E-06	0.00E+00	1.80E-06	0.00E+00	1.75E-05	3.74E-06	3.07E-05	6.80E-02	4.52E-04	6.90E-01	4.45E-05
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	1.70E-04	0.00E+00	2.86E-04	0.00E+00	4.54E-04	9.73E-05	1.03E-03	4.00E+00	2.57E-04	4.00E+01	2.57E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	1.33E+00	1.03E+00	1.03E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.34E-03	0.00E+00	5.08E-03	1.09E-03	8.83E-03	1.00E+00	8.83E-03	1.00E+01	8.83E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.04E-07	0.00E+00	0.00E+00	1.99E-06	0.00E+00	8.15E-09	0.00E+00	4.47E-06	9.57E-07	7.62E-06	4.58E+00	1.66E-06	9.16E+00	8.32E-07
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	8.40E-04	0.00E+00	1.02E-02	0.00E+00	0.00E+00	2.06E-04	0.00E+00	1.78E-03	0.00E+00	2.14E-02	4.60E-03	3.90E-02	2.74E+03	1.43E-05	2.74E+04	1.43E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	8.40E-04	0.00E+00	1.44E-04	0.00E+00	0.00E+00	2.93E-06	0.00E+00	2.53E-05	0.00E+00	3.04E-04	6.52E-05	1.38E-03	3.28E+00	4.21E-04	1.31E+01	1.05E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-07	0.00E+00	0.00E+00	2.02E-06	0.00E+00	8.30E-09	0.00E+00	4.55E-06	9.75E-07	7.76E-06	4.58E+00	1.69E-06	9.16E+00	8.47E-07
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	6.06E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	1.00E-03	0.00E+00	6.14E-03	0.00E+00	0.00E+00	9.60E-03	0.00E+00	1.64E-02	0.00E+00	1.37E-02	2.95E-03	4.99E-02	1.17E+01	4.26E-03	1.51E+01	3.29E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.67E-07	0.00E+00	0.00E+00	1.57E-06	0.00E+00	1.71E-08	0.00E+00	3.65E-06	7.82E-07	6.19E-06	2.00E-02	3.09E-04	2.00E-01	3.09E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.36E-06	0.00E+00	2.94E-08	0.00E+00	7.59E-06	1.63E-06	1.19E-05	9.20E-02	1.29E-04	9.20E-01	1.29E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.85E-06	0.00E+00	1.31E-08	0.00E+00	4.23E-06	9.06E-07	7.19E-06	8.00E-02	8.99E-05	2.90E-01	2.48E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.36E+00	0.00E+00	8.62E+00	0.00E+00	0.00E+00	3.32E-01	0.00E+00	1.48E-01	0.00E+00	3.78E-01	8.11E-02	1.09E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	4.78E-04	0.00E+00	1.14E-01	0.00E+00	NA	2.25E-03	NA	1.57E-02	0.00E+00	3.31E-02	7.10E-03	1.73E-01	8.00E+00	2.16E-02	8.00E+01	2.16E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	5.84E-02	0.00E+00	7.86E-01	0.00E+00	0.00E+00	1.90E-01	0.00E+00	2.66E-01	0.00E+00	1.49E-01	3.19E-02	1.48E+00	8.80E+01	1.68E-02	2.84E+02	5.21E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	4.09E-04	NA	2.98E-04	0.00E+00	1.10E-04	2.35E-05	8.89E-04	1.00E+00	8.89E-04	3.00E+00	2.96E-04
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-07	0.00E+00	0.00E+00	2.72E-06	0.00E+00	4.00E-09	0.00E+00	5.95E-06	1.27E-06	1.02E-05	7.00E-02	1.46E-04	7.00E-01	1.46E-05
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	5.86E-03	0.00E+00	0.00E+00	6.64E-03	0.00E+00	1.73E-03	0.00E+00	1.27E-02	2.73E-03	2.97E-02	4.00E+01	7.42E-04	8.00E+01	3.71E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.65E-02	0.00E+00	1.07E-03	0.00E+00	0.00E+00	3.43E-04	0.00E+00	9.60E-04	0.00E+00	2.95E-03	6.33E-04	4.24E-02	5.07E+02	8.36E-05	1.13E+03	3.75E-05
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								2.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E+00	5.07E+02	4.88E-03	1.13E+03	2.19E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.62E-07	0.00E+00	0.00E+00	1.52E-06	0.00E+00	1.82E-08	0.00E+00	3.54E-06	7.58E-07	6.00E-06	4.58E+00	1.31E-06	9.16E+00	6.55E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.28E-07	0.00E+00	0.00E+00	4.94E-06	0.00E+00	6.19E-08	0.00E+00	1.15E-05	2.47E-06	1.95E-05	2.40E-01	8.14E-05	2.40E+00	8.14E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	3.29E-03	0.00E+00	6.55E-05	0.00E+00	7.87E-03	1.69E-03	1.33E-02	2.40E-01	5.53E-02	2.40E+00	5.53E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	1.51E-05	NA	7.70E-03	0.00E+00	1.30E-04	2.79E-05	7.92E-03	8.50E+00	9.32E-04	2.55E+01	3.11E-04
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	3.30E-04	0.00E+00	3.51E-04	0.00E+00	0.00E+00	4.55E-04	0.00E+00	6.89E-04	0.00E+00	1.32E-03	2.83E-04	3.43E-03	2.00E-01	1.72E-02	3.30E-01	1.04E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	1.15E-03	0.00E+00	1.11E-02	0.00E+00	3.40E-02	7.29E-03	6.58E-02	2.63E+02	2.50E-04	7.89E+02	8.34E-05
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.50E+00	0.00E+00	1.30E+00	0.00E+00	0.00E+00	4.19E-01	0.00E+00	1.17E+00	0.00E+00	3.61E+00	7.73E-01	1.08E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	7.40E-03	6.69E-03	7.40E-02	6.69E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.43E-06	0.00E+00	9.96E-09	0.00E+00	5.46E-06	1.17E-06	9.32E-06	4.58E+00	2.03E-06	9.16E+00	1.02E-06
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	3.62E-03	0.00E+00	1.37E-02	0.00E+00	0.00E+00	6.16E-04	0.00E+00	2.11E-04	0.00E+00	1.88E-03	4.02E-04	2.04E-02	2.10E-01	9.73E-02	2.10E+00	9.73E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	4.54E-02	0.00E+00	0.00E+00	2.33E-02	0.00E+00	1.72E-01	0.00E+00	2.09E-01	4.47E-02	4.94E-01	1.60E+02	3.09E-03	3.20E+02	1.54E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	9.1E-06	4.6E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.3E-04	4.6E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.1E-03	7.0E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/

Table O-115
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	9.16E-10	9.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-09	1.32E-10	2.12E-09	0.00E+00	0.00E+00	1.03E-07	1.00E-06	1.03E-01	1.00E-05	1.03E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-07	8.00E-01	1.03E-06	4.00E+00	2.06E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	8.00E-01	2.44E-05	4.00E+00	4.89E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	8.00E-01	1.64E-06	4.00E+00	3.27E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-09	2.00E-01	4.65E-08	1.00E+00	9.30E-09
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	4.58E+00	2.43E-08	9.16E+00	1.21E-08
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.97E+00	7.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-01	0.00E+00	7.81E-01	0.00E+00	0.00E+00	7.44E+01	1.93E+00	3.86E+01	1.93E+01	3.86E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	1.25E-01	2.62E-03	1.25E+00	2.62E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	6.85E-02	5.36E-05	6.85E-01	5.36E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	6.80E-02	1.55E-06	6.80E-01	1.55E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-07	6.80E-02	3.92E-06	6.80E-01	3.92E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-07	6.80E-02	3.66E-06	6.80E-01	3.66E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06	6.80E-02	4.82E-05	6.80E-01	4.82E-06
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.98E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	6.90E+00	0.00E+00	6.90E+00	0.00E+00	0.00E+00	1.58E+01	5.10E+00	3.09E+00	1.98E+01	7.97E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	4.00E+00	4.01E-04	4.00E+01	4.01E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	1.46E-05	0.00E+00	0.00E+00	1.97E-03	1.83E+01	1.08E-04	1.83E+02	1.08E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	1.33E+00	9.22E-01	9.22E-01	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03	2.68E-03	8.02E-03	0.00E+00	0.00E+00	2.00E-02	1.00E+00	2.00E-02	1.00E+01	2.00E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-08	4.58E+00	1.21E-08	9.16E+00	6.05E-09
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-02	2.74E+03	1.60E-05	2.74E+04	1.60E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-03	3.28E+00	5.59E-04	1.31E+01	1.40E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-08	4.58E+00	1.60E-08	9.16E+00	7.99E-09
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.59E-01	1.49E-01	1.49E-01	1.64E-03	5.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-01	3.13E-02	1.44E-01	0.00E+00	0.00E+00	3.74E-01	1.17E+01	3.19E-02	1.51E+01	2.47E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	2.00E-02	1.12E-04	2.00E-01	1.12E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-08	9.20E+02	8.39E-07	9.20E+01	8.39E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-08	8.00E-02	3.81E-07	2.90E-01	1.05E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.83E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	7.03E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.53E-02	NA	0.00E+00	0.00E+00	0.00E+00	3.60E-02	8.00E+00	4.50E-03	8.00E+01	4.50E-04
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-01	8.80E+01	8.83E-03	2.84E+02	2.74E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	5.88E-04	NA	0.00E+00	0.00E+00	0.00E+00	5.88E-04	1.32E+01	4.45E-05	3.96E+01	1.48E-05
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	1.16E+00			0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.16E-03	NA	3.16E-03	0.00E+00	0.00E+00	6.90E-03	3.20E-02	2.16E-01	1.60E-01	4.31E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-08	7.00E-02	1.23E-06	7.00E-01	1.23E-07
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	7.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-02	3.47E-03	2.41E-02	0.00E+00	0.00E+00	0.00E+00	1.25E-01	4.00E+01	3.13E-03	8.00E+01	1.56E-03
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.24E-02	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-03	0.00E+00	8.64E-03	0.00E+00	0.00E+00	9.49E-02	5.07E+02	1.87E-04	1.13E+03	8.39E-05
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E+00	5.07E+02	1.12E-02	1.13E+03	5.02E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-08	4.58E+00	7.42E-09	9.16E+00	3.71E-09
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07	2.40E-01	9.03E-07	2.40E+00	9.03E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	2.40E-01	9.11E-04	2.40E+00	9.11E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-02	8.50E+00	4.54E-03	2.55E+01	1.51E-03
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	5.02E-01	1.95E-01	1.95E-01	4.49E-04	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	1.40E-03	1.50E-02	0.00E+00	0.00E+00	3.82E-02	2.00E-01	1.91E-01	3.30E-01	1.16E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02	2.63E+02	1.39E-04	7.89E+02	4.64E-05
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-01	5.90E-01	8.68E-01	0.00E+00	0.00E+00	8.44E+00	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							7.33E-05	4.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03	7.40E-03	5.68E-01	7.40E-02	5.68E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-08	4.58E+00	1.96E-08	9.16E+00	9.80E-09
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-03	2.10E-01	3.07E-02	2.10E+00	3.07E-03
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	1.01E+00	4.51E-01	4.51E-01	0.00E+00	2.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E+00	3.49E-01	1.19E+00	0.00E+00	0.00E+00	2.97E

Table O-116
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							-----Unitless-----									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	7.77E-10	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-10	9.04E-11	5.12E-10	0.00E+00	0.00E+00	2.95E-08	1.00E-06	2.95E-02	1.00E-05	2.95E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-07	0.00E+00	0.00E+00	0.00E+00	1.64E-07	8.00E-01	2.05E-07	4.00E+00	4.11E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	0.00E+00	3.09E-06	8.00E-01	3.87E-06	4.00E+00	7.73E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-07	0.00E+00	0.00E+00	0.00E+00	2.19E-07	8.00E-01	2.74E-07	4.00E+00	5.48E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-09	0.00E+00	0.00E+00	0.00E+00	6.27E-09	2.00E-01	3.14E-08	1.00E+00	6.27E-09
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	2.16E-08	4.58E+00	4.71E-09	9.16E+00	2.35E-09
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.09E+00	5.17E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-01	0.00E+00	3.71E-01	0.00E+00	0.00E+00	5.35E+01	1.93E+00	2.77E+01	1.93E+01	2.77E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	1.38E-04	1.25E-01	1.11E-03	1.25E+00	1.11E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	0.00E+00	1.57E-07	6.85E-02	2.29E-06	6.85E-01	2.29E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-08	0.00E+00	0.00E+00	0.00E+00	7.43E-08	6.80E-02	1.09E-06	6.80E-01	1.09E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-08	0.00E+00	0.00E+00	0.00E+00	8.70E-08	6.80E-02	1.28E-06	6.80E-01	1.28E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	1.92E-08	6.80E-02	2.82E-07	6.80E-01	2.82E-08
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	0.00E+00	3.06E-06	6.80E-02	4.50E-05	6.80E-01	4.50E-06
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.60E+00	0.00E+00	0.00E+00	0.00E+00	NA	5.58E+00	0.00E+00	5.58E+00	0.00E+00	0.00E+00	1.28E+01	5.10E+00	2.50E+00	1.98E+01	6.44E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	1.20E-03	4.00E+00	3.01E-04	4.00E+01	3.01E-05
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06	0.00E+00	4.21E-06	0.00E+00	0.00E+00	1.61E-03	1.83E+01	8.80E-05	1.83E+02	8.81E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.33E+00	6.72E-01	6.72E-01	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03	2.35E-03	8.02E-03	0.00E+00	0.00E+00	1.97E-02	1.00E+00	1.97E-02	1.00E+01	1.97E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	1.18E-08	4.58E+00	2.58E-09	9.16E+00	1.29E-09
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	4.23E-03	2.74E+03	1.55E-06	2.74E+04	1.55E-07
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	1.01E-03	3.28E+00	3.09E-04	1.31E+01	7.71E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	1.45E-08	4.58E+00	3.17E-09	9.16E+00	1.58E-09
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.06E-01	8.97E-02	8.97E-02	1.15E-03	4.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	2.98E-02	1.36E-01	0.00E+00	0.00E+00	3.51E-01	1.17E+01	3.00E-02	1.51E+01	2.32E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-08	0.00E+00	0.00E+00	0.00E+00	3.03E-08	2.00E-02	1.51E-06	2.00E-01	1.51E-07
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-08	0.00E+00	0.00E+00	0.00E+00	4.78E-08	9.20E-02	5.20E-07	9.20E-01	5.20E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	0.00E+00	2.25E-08	8.00E-02	2.81E-07	2.90E-01	7.76E-08
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-01	0.00E+00	0.00E+00	0.00E+00	1.83E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	5.50E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	2.99E-02	NA	0.00E+00	0.00E+00	3.04E-02	8.00E+00	3.81E-03	8.00E+01	3.81E-04
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-01	0.00E+00	0.00E+00	0.00E+00	5.48E-01	8.80E+01	6.23E-03	2.84E+02	1.93E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	5.58E-04	NA	0.00E+00	0.00E+00	5.58E-04	1.32E+01	4.23E-05	3.96E+01	1.41E-05
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	1.33E+00			0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	NA	2.69E-03	NA	2.69E-03	0.00E+00	0.00E+00	5.80E-03	3.20E-02	1.81E-01	1.60E-01	3.62E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-09	0.00E+00	0.00E+00	0.00E+00	7.27E-09	7.00E-02	1.04E-07	7.00E-01	1.04E-08
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	6.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-02	3.19E-03	2.19E-02	0.00E+00	0.00E+00	1.12E-01	4.00E+01	2.79E-03	8.00E+01	1.40E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.19E-02	3.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	3.19E-03	0.00E+00	0.00E+00	5.15E-02	5.07E+02	1.01E-04	1.13E+03	4.55E-05
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								2.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E+00	5.07E+02	5.61E-03	1.13E+03	2.52E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-08	0.00E+00	0.00E+00	0.00E+00	3.30E-08	4.58E+00	7.19E-09	9.16E+00	3.60E-09
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	1.13E-07	2.40E-01	4.71E-07	2.40E+00	4.71E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-05	0.00E+00	0.00E+00	0.00E+00	7.72E-05	2.40E-01	3.22E-04	2.40E+00	3.22E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.80E-02	0.00E+00	0.00E+00	0.00E+00	1.80E-02	8.50E+00	2.12E-03	2.55E+01	7.07E-04
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.93E-01	1.51E-01	1.51E-01	3.79E-04	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	1.26E-03	1.25E-02	0.00E+00	0.00E+00	3.18E-02	2.00E-01	1.59E-01	3.30E-01	9.64E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	0.00E+00	2.00E-02	2.63E+02	7.61E-05	7.89E+02	2.54E-05
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.03E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-01	2.00E-01	3.55E-01	0.00E+00	0.00E+00	5.29E+00	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							5.69E-05	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03	7.40E-03	4.66E-01	7.40E-02	4.66E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	1.73E-08	4.58E+00	3.77E-09	9.16E+00	1.89E-09
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	4.54E-03	2.10E-01	2.16E-02	2.10E+00	2.16E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	1.06E+00	1.84E-01	1.84E-01	0.00E+00	2.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	3.11E-01	1.11E+00	0.00E+00	0.00E+00	2.74E+00	1.60E+02	1.71E-02	3.20E+02	8.57E-03

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.1E-08	1.1E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.3E-06	8.7E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	5.0E-05	5.0E-06
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	8.8E-05	8.8E-06
Aldrin/Dieldrin/Endrin EEQ:	2.1E-06	2.1E-07

Intake Equation:

$$Ej = \left(\frac{A}{HR}\left[\sum_{i=1}^{m}\left(\frac{IRi\,x\,Cij}{BW}\right)\right]\right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0.1	unitless
Aquatic plant diet fraction =	0.45	unitless
Plant root diet fraction =	0.45	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0080934	kg/d
Food ingestion rate =	0.0861	kg/d
Body weight =	1.174	kg
Home range =	0.3311199	acres
Water intake rate =	0.114	L/d
Site Area =	475	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-117
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	4.98E-10	5.68E-09	0.00E+00	4.47E-05	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-10	4.52E-05	1.00E-06	4.52E+01	1.00E-05	4.52E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-06	2.50E-06	8.00E-01	3.12E-06	4.00E+00	6.25E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-06	6.61E-06	8.00E-01	8.27E-06	4.00E+00	1.65E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	5.73E-06	8.00E-01	7.17E-06	4.00E+00	1.43E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-07	3.34E-07	2.00E-01	1.67E-06	1.00E+00	3.34E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-07	6.71E-07	4.58E+00	1.47E-07	9.16E+00	7.33E-08
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.07E+00	4.14E+00	0.00E+00	2.43E+00	7.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E+01	1.93E+00	4.11E+01	1.93E+01	4.11E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	1.64E-04	1.25E-01	1.31E-03	1.25E+00	1.31E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-06	5.47E-06	6.85E-02	7.99E-05	6.85E-01	7.99E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-06	2.53E-06	6.80E-02	3.72E-05	6.90E-01	3.67E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06	6.75E-06	6.80E-02	9.93E-05	6.90E-01	9.79E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-05	2.22E-05	6.80E-02	3.26E-04	6.90E-01	3.21E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-06	1.52E-06	6.80E-02	2.23E-05	6.90E-01	2.20E-06
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.15E-01	0.00E+00	0.00E+00	2.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E+00	5.10E+00	4.14E-01	1.98E+01	1.07E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	1.21E-04	4.00E+00	3.03E-05	4.00E+01	3.03E-06
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	9.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-03	1.83E+01	5.27E-04	1.83E+02	5.28E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	7.36E-05	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-04	2.88E-03	1.00E+00	2.88E-03	1.00E+01	2.88E-04
Chlordane	0.00E+00	mg/L	1.88E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-07	3.34E-07	4.58E+00	7.30E-08	9.16E+00	3.65E-08
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	6.69E-04	0.00E+00	0.00E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-03	3.60E-01	2.74E+03	1.31E-04	2.74E+04	1.31E-05
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	6.69E-04	0.00E+00	0.00E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	3.54E-01	3.28E+00	1.08E-01	1.31E+01	2.69E-02
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-07	4.42E-07	4.58E+00	9.64E-08	9.16E+00	4.82E-08
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	8.92E-04	3.13E-03	0.00E+00	2.78E+00	6.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	2.85E+00	1.17E+01	2.44E-01	1.51E+01	1.88E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-07	3.31E-07	2.00E-02	1.65E-05	2.00E-01	1.65E-06
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-07	5.18E-07	9.20E-02	5.64E-06	9.20E-01	5.64E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-07	3.93E-07	8.00E-02	4.91E-06	2.90E-01	1.36E-06
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.54E+00	0.00E+00	0.00E+00	8.11E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-02	8.12E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	3.82E-04	0.00E+00	0.00E+00	3.03E-01	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-03	3.07E-01	8.00E+00	3.83E-02	8.00E+01	3.83E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.95E-02	0.00E+00	0.00E+00	5.22E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	5.23E+01	8.80E+01	5.94E-01	2.84E+02	1.84E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	9.49E-06	1.00E+00	9.49E-06	3.00E+00	3.16E-06
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	3.34E-05	0.00E+00	0.00E+00	9.62E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	1.50E-02	8.64E-03	2.50E-02	5.18E-03	
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-07	6.09E-07	7.00E-02	8.70E-06	7.00E-01	8.70E-07
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	4.42E-03	0.00E+00	0.00E+00	3.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	4.50E-02	4.00E+01	1.12E-03	8.00E+01	5.62E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.94E-02	3.01E-04	0.00E+00	2.22E+01	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E+01	5.07E+02	4.38E-02	1.13E+03	1.97E-02	
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								3.08E+00	0.00E+00	0.00E+00	1.74E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E+03	5.07E+02	3.43E+00	1.13E+03	1.54E+00	
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-07	3.14E-07	4.58E+00	6.85E-08	9.16E+00	3.42E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06	1.57E-06	2.40E-01	6.56E-06	2.40E+00	6.56E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-04	7.54E-04	2.40E-01	3.14E-03	2.40E+00	3.14E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	7.20E-05	8.50E+00	8.47E-06	2.55E+01	2.82E-06
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	2.44E-04	3.65E-04	0.00E+00	2.64E-02	6.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	3.35E-02	2.00E-01	1.67E-01	3.30E-01	1.01E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-03	3.67E-03	2.63E+02	1.40E-05	7.89E+02	4.65E-06
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.04E+00	3.02E-02	0.00E+00	1.71E+03	2.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-02	1.72E+03	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							3.98E-05	2.41E-04	0.00E+00	3.34E-01	4.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-01	7.40E-03	4.58E+01	7.40E-02	4.58E+00	
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-07	5.41E-07	4.58E+00	1.18E-07	9.16E+00	5.91E-08
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03

Table O-118
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
	----------Unitless----------															mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	3.12E-10	1.19E-09	0.00E+00	3.80E-06	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-10	3.82E-06	1.00E-06	3.82E+00	1.00E-05	3.82E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-07	8.01E-07	8.00E-01	1.00E-06	4.00E+00	2.00E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-06	3.33E-06	8.00E-01	4.17E-06	4.00E+00	8.34E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-06	1.08E-06	8.00E-01	1.35E-06	4.00E+00	2.70E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-07	1.76E-07	2.00E-01	8.81E-07	1.00E+00	1.76E-07
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-07	3.15E-07	4.58E+00	6.89E-08	9.16E+00	3.44E-08
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.37E-01	2.23E+00	0.00E+00	9.92E-01	3.85E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E+01	1.93E+00	2.19E+01	1.93E+01	2.19E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05	6.44E-05	1.25E-01	5.15E-04	1.25E+00	5.15E-05
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-06	2.55E-06	6.85E-02	3.73E-05	6.85E-01	3.73E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-06	1.21E-06	6.80E-02	1.78E-05	6.90E-01	1.75E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-06	1.89E-06	6.80E-02	2.77E-05	6.90E-01	2.73E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06	7.77E-06	6.80E-02	1.14E-04	6.90E-01	1.13E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-07	7.93E-07	6.80E-02	1.17E-05	6.90E-01	1.15E-06
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	6.87E-02	0.00E+00	0.00E+00	1.19E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+00	5.10E+00	2.47E-01	1.98E+01	6.36E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	5.10E-05	4.00E+00	1.28E-05	4.00E+01	1.28E-06
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	9.91E-05	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	1.83E+01	7.14E-05	1.83E+02	7.16E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	5.43E-05	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	4.12E-04	1.00E+00	4.12E-04	1.00E+01	4.12E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-07	1.73E-07	4.58E+00	3.78E-08	9.16E+00	1.89E-08
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	3.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	7.51E-02	2.74E+03	2.74E-05	2.74E+04	2.74E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	3.87E-04	0.00E+00	0.00E+00	0.00E+00	7.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	7.40E-02	3.28E+00	2.26E-02	1.31E+01	5.63E-03
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-07	2.12E-07	4.58E+00	4.63E-08	9.16E+00	2.32E-08
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	4.62E-04	2.02E-03	0.00E+00	2.71E-01	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.69E-04	2.86E-01	1.17E+01	2.45E-02	1.51E+01	1.89E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07	1.72E-07	2.00E-02	8.60E-06	2.00E-01	8.60E-07
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-07	3.30E-07	9.20E-02	3.58E-06	9.20E-01	3.58E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-07	1.93E-07	8.00E-02	2.42E-06	2.90E-01	6.66E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.29E-01	0.00E+00	0.00E+00	0.00E+00	8.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	8.36E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02		NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.20E-04	0.00E+00	0.00E+00	5.21E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.76E-03	5.41E-02	8.00E+00	6.76E-03	8.00E+01	6.76E-04
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.69E-02	0.00E+00	0.00E+00	0.00E+00	3.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-03	3.59E+00	8.80E+01	4.08E-02	2.84E+02	1.26E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-06	5.64E-06	1.00E+00	5.64E-06	3.00E+00	1.88E-06
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.82E-05	0.00E+00	0.00E+00	5.25E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.06E-05	1.50E-02	4.71E-03	2.50E-02	2.83E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-07	2.89E-07	7.00E-02	4.12E-06	7.00E-01	4.12E-07
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	2.88E-03	0.00E+00	0.00E+00	5.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-04	8.90E-03	4.00E+01	2.22E-04	8.00E+01	1.11E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.68E-02	1.37E-04	0.00E+00	2.67E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	5.07E+02	5.30E-03	1.13E+03	2.38E-03
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.14E+00	0.00E+00	0.00E+00	1.81E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E+02	5.07E+02	3.59E-01	1.13E+03	1.61E-01
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-07	1.71E-07	4.58E+00	3.73E-08	9.16E+00	1.86E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-07	5.62E-07	2.40E-01	2.34E-06	2.40E+00	2.34E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	2.48E-04	2.40E-01	1.03E-03	2.40E+00	1.03E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06	9.74E-06	8.50E+00	1.15E-06	2.55E+01	3.82E-07
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	1.52E-04	2.27E-04	0.00E+00	1.64E-02	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05	2.08E-02	2.00E-01	1.04E-01	3.30E-01	6.31E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-03	1.64E-03	2.63E+02	6.25E-06	7.89E+02	2.08E-06
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.62E+00	1.52E-02	0.00E+00	2.56E+02	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	2.58E+02	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.28E-05	1.46E-04	0.00E+00	9.03E-04	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03	7.40E-03	4.86E-01	7.40E-02	4.86E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-07	2.53E-07	4.58E+00	5.52E-08	9.16E+00	2.76E-08
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.67E-03	0.00E+00	0.00E+00	2.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	2.67E-01	2.10E-01	1.27E+00	2.10E+00	1.27E-01
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	9.37E-03	0.00E+00	0.00E+00	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table O-119
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	2.83E-09	1.00E-06	2.83E-03	1.00E-05	2.83E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	8.39E-06	8.00E-01	1.05E-05	4.00E+00	2.10E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-04	8.00E-01	2.49E-04	4.00E+00	4.99E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-05	8.00E-01	1.67E-05	4.00E+00	3.34E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-08	0.00E+00	0.00E+00	0.00E+00	9.49E-08	2.00E-01	4.75E-07	1.00E+00	9.49E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	1.14E-06	4.58E+00	2.48E-07	9.16E+00	1.24E-07
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	3.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E+00	1.93E+00	1.66E+00	1.93E+01	1.66E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	3.34E-03	1.25E-01	2.67E-02	1.25E+00	2.67E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	3.75E-05	6.85E-02	5.47E-04	6.85E-01	5.47E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	0.00E+00	1.07E-06	6.80E-02	1.58E-05	6.80E-01	1.58E-06
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	2.72E-06	6.80E-02	4.00E-05	6.80E-01	4.00E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-06	0.00E+00	0.00E+00	0.00E+00	2.54E-06	6.80E-02	3.74E-05	6.80E-01	3.74E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	3.35E-05	6.80E-02	4.92E-04	6.80E-01	4.92E-05
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	1.64E-02	4.00E+00	4.09E-03	4.00E+01	4.09E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	2.74E-02	1.00E+00	2.74E-02	1.00E+01	2.74E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-07	0.00E+00	0.00E+00	0.00E+00	5.66E-07	4.58E+00	1.24E-07	9.16E+00	6.18E-08
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-01	0.00E+00	0.00E+00	0.00E+00	4.36E-01	2.74E+03	1.59E-04	2.74E+04	1.59E-05
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03	0.00E+00	0.00E+00	0.00E+00	8.16E-03	3.28E+00	2.49E-03	1.31E+01	6.21E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-07	0.00E+00	0.00E+00	0.00E+00	7.47E-07	4.58E+00	1.63E-07	9.16E+00	8.16E-08
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-01	0.00E+00	0.00E+00	0.00E+00	3.22E-01	1.17E+01	2.76E-02	1.51E+01	2.13E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-05	2.00E-02	1.14E-03	2.00E-01	1.14E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-07	0.00E+00	0.00E+00	0.00E+00	7.88E-07	9.20E-02	8.56E-06	9.20E-01	8.56E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-07	0.00E+00	0.00E+00	0.00E+00	3.11E-07	8.00E-02	3.89E-06	2.90E-01	1.07E-06
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.59E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.60E-01	0.00E+00	0.00E+00	3.62E-01	8.00E+00	4.52E-02	8.00E+01	4.52E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E+00	8.80E+01	8.12E-02	2.84E+02	2.52E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	6.00E-03	0.00E+00	0.00E+00	0.00E+00	6.00E-03	1.32E+01	4.55E-04	3.96E+01	1.52E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-07	0.00E+00	0.00E+00	0.00E+00	8.78E-07	7.00E-02	1.25E-05	7.00E-01	1.25E-06
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-02	0.00E+00	0.00E+00	0.00E+00	3.54E-02	4.00E+01	8.84E-04	8.00E+01	4.42E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-01	5.07E+02	2.32E-04	1.13E+03	1.04E-04
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								9.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E+00	5.07E+02	1.82E-02	1.13E+03	8.16E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-07	0.00E+00	0.00E+00	0.00E+00	3.47E-07	4.58E+00	7.57E-08	9.16E+00	3.78E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	0.00E+00	2.21E-06	2.40E-01	9.22E-06	2.40E+00	9.22E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	2.23E-03	2.40E-01	9.29E-03	2.40E+00	9.29E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.94E-01	0.00E+00	0.00E+00	0.00E+00	3.94E-01	8.50E+00	4.63E-02	2.55E+01	1.54E-02
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	7.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	1.50E-02	2.00E-01	7.52E-02	3.30E-01	4.56E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-01	0.00E+00	0.00E+00	0.00E+00	3.74E-01	2.63E+02	1.42E-03	7.89E+02	4.74E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E+00	0.00E+00	0.00E+00	0.00E+00	1.51E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	7.40E-03	1.61E-02	7.40E-02	1.61E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-07	0.00E+00	0.00E+00	0.00E+00	9.16E-07	4.58E+00	2.00E-07	9.16E+00	1.00E-07
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	9.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	0.00E+00	1.44E-02	2.10E-01	6.83E-02	2.10E+00	6.83E-03
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+00	1.60E+02	2.23E-02	3.20E+02	1.11E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	8.1E-07	4.1E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.8E-04	5.5E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.1E-03	1.1E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/Endrin E

Table O-120
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-10	0.00E+00	0.00E+00	0.00E+00	1.79E-09	1.00E-06	1.79E-03	1.00E-05	1.79E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	1.37E-06	8.00E-01	1.72E-06	4.00E+00	3.43E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	2.58E-05	8.00E-01	3.23E-05	4.00E+00	6.46E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-06	0.00E+00	0.00E+00	0.00E+00	1.83E-06	8.00E-01	2.29E-06	4.00E+00	4.58E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-08	0.00E+00	0.00E+00	0.00E+00	5.24E-08	2.00E-01	2.62E-07	1.00E+00	5.24E-08
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-07	0.00E+00	0.00E+00	0.00E+00	1.80E-07	4.58E+00	3.93E-08	9.16E+00	1.97E-08
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.45E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E+00	1.93E+00	7.51E-01	1.93E+01	7.51E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	1.15E-03	1.25E-01	9.24E-03	1.25E+00	9.24E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	1.31E-06	6.85E-02	1.91E-05	6.85E-01	1.91E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-07	0.00E+00	0.00E+00	0.00E+00	6.21E-07	6.80E-02	9.13E-06	6.80E-01	9.13E-07
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-07	0.00E+00	0.00E+00	0.00E+00	7.27E-07	6.80E-02	1.07E-05	6.80E-01	1.07E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	1.60E-07	6.80E-02	2.36E-06	6.80E-01	2.36E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	2.55E-05	6.80E-02	3.76E-04	6.80E-01	3.76E-05
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	1.00E-02	4.00E+00	2.51E-03	4.00E+01	2.51E-04
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02	0.00E+00	0.00E+00	0.00E+00	1.96E-02	1.00E+00	1.96E-02	1.00E+01	1.96E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-08	0.00E+00	0.00E+00	0.00E+00	9.89E-08	4.58E+00	2.16E-08	9.16E+00	1.08E-08
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	0.00E+00	0.00E+00	0.00E+00	2.86E-02	2.74E+03	1.04E-05	2.74E+04	1.04E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	1.67E-03	3.28E+00	5.10E-04	1.31E+01	1.27E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.21E-07	4.58E+00	2.65E-08	9.16E+00	1.32E-08
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-01	0.00E+00	0.00E+00	0.00E+00	2.50E-01	1.17E+01	2.14E-02	1.51E+01	1.65E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-07	0.00E+00	0.00E+00	0.00E+00	2.53E-07	2.00E-02	1.26E-05	2.00E-01	1.26E-06
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-07	0.00E+00	0.00E+00	0.00E+00	3.99E-07	9.20E-02	4.34E-06	9.20E-01	4.34E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	1.88E-07	8.00E-02	2.35E-06	2.90E-01	6.48E-07
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.09E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	4.32E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	7.32E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	2.50E-01	0.00E+00	0.00E+00	0.00E+00	2.50E-01	8.00E+00	3.13E-02	8.00E+01	3.13E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	8.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E+00	0.00E+00	0.00E+00	0.00E+00	4.10E+00	8.80E+01	4.66E-02	2.84E+02	1.45E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	4.66E-03	0.00E+00	0.00E+00	0.00E+00	4.66E-03	1.32E+01	3.53E-04	3.96E+01	1.18E-04
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-08	0.00E+00	0.00E+00	0.00E+00	6.08E-08	7.00E-02	8.68E-07	7.00E-01	8.68E-08
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-02	0.00E+00	0.00E+00	0.00E+00	2.66E-02	4.00E+01	6.66E-04	8.00E+01	3.33E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	5.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-02	0.00E+00	0.00E+00	0.00E+00	5.58E-02	5.07E+02	1.10E-04	1.13E+03	4.94E-05
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								3.78E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+00	5.07E+02	7.47E-03	1.13E+03	3.35E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-07	0.00E+00	0.00E+00	0.00E+00	2.75E-07	4.58E+00	6.01E-08	9.16E+00	3.01E-08
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-07	0.00E+00	0.00E+00	0.00E+00	9.43E-07	2.40E-01	3.93E-06	2.40E+00	3.93E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	6.45E-04	2.40E-01	2.69E-03	2.40E+00	2.69E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.51E-01	0.00E+00	0.00E+00	0.00E+00	1.51E-01	8.50E+00	1.77E-02	2.55E+01	5.91E-03
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	5.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	1.10E-02	2.00E-01	5.51E-02	3.30E-01	3.34E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.63E+02	6.35E-04	7.89E+02	2.12E-04
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	5.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	7.03E+00	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	7.40E-03	1.02E-02	7.40E-02	1.02E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-07	4.58E+00	3.15E-08	9.16E+00	1.58E-08
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	8.73E-03	2.10E-01	4.16E-02	2.10E+00	4.16E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E+00	0.00E+00	0.00E+00	0.00E+00	2.60E+00	1.60E+02	1.62E-02	3.20E+02	8.12E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-07	8.9E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.6E-05	7.3E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.2E-04	4.2E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/Endrin

Table O-121
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.89E-10	2.24E-09	0.00E+00	2.80E-06	4.91E-08	0.00E+00	7.14E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.06E-01	1.63E+00	0.00E+00	1.53E-01	7.35E+00	0.00E+00	2.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	4.55E-02	0.00E+00	0.00E+00	2.05E-01	NA	2.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	9.80E-04	0.00E+00	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	1.33E+00	9.22E-01	9.22E-01	0.00E+00	2.91E-05	0.00E+00	0.00E+00	2.32E-04	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.53E-04	0.00E+00	0.00E+00	2.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-02	NA	NA	NA	NA
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.53E-04	0.00E+00	0.00E+00	2.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-02	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.59E-01	1.49E-01	1.49E-01	3.38E-04	1.24E-03	0.00E+00	1.75E-01	6.49E-03	0.00E+00	4.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-01	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.82E-01	0.00E+00	0.00E+00	5.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	1.45E-04	0.00E+00	0.00E+00	1.90E-02	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	1.91E-02	NA	NA	NA	NA
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.87E-02	0.00E+00	0.00E+00	3.28E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E+00	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	1.16E+00			0.00E+00	1.32E-05	0.00E+00	0.00E+00	9.88E-06	NA	1.07E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.30E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	1.75E-03	0.00E+00	0.00E+00	4.05E-03	0.00E+00	7.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03	NA	NA	NA	NA
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.49E-02	1.19E-04	0.00E+00	1.39E+00	2.50E-04	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.17E+00	0.00E+00	0.00E+00	1.09E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	5.02E-01	1.95E-01	1.95E-01	9.25E-05	1.44E-04	0.00E+00	1.66E-03	6.49E-04	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.15E+00	1.19E-02	0.00E+00	1.08E+02	2.51E-02	0.00E+00	2.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+02	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.51E-05	9.52E-05	0.00E+00	2.10E-02	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-02	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.24E-03	0.00E+00	0.00E+00	1.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	1.01E+00	4.51E-01	4.51E-01	0.00E+00	5.68E-03	0.00E+00	0.00E+00	4.28E-02	0.00E+00	4.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.5930505	acres
Water intake rate =	0.112	L/d
Site Area =	475	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

MARC No. W912QR-04-D-0027, TO No. DS02
Longhorn Army Ammunition Plant, Karnack, Texas

Page 1 of 1

Shaw Project No. 117591
11/8/2007

Table O-122
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.60E-10	6.35E-10	0.00E+00	3.23E-07	2.97E-09	0.00E+00	1.72E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-07	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.24E-01	1.19E+00	0.00E+00	8.43E-02	5.36E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	3.68E-02	0.00E+00	0.00E+00	1.66E-01	NA	1.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	3.69E-05	0.00E+00	0.00E+00	1.73E-04	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.33E+00	6.72E-01	6.72E-01	0.00E+00	2.91E-05	0.00E+00	0.00E+00	1.75E-05	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.99E-04	0.00E+00	0.00E+00	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03	NA	NA	NA	NA
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.99E-04	0.00E+00	0.00E+00	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.06E-01	8.97E-02	8.97E-02	2.37E-04	1.08E-03	0.00E+00	2.31E-02	1.69E-03	0.00E+00	4.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-02	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.23E-01	0.00E+00	0.00E+00	7.05E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	1.13E-04	0.00E+00	0.00E+00	4.43E-03	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	4.55E-03	NA	NA	NA	NA
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.38E-02	0.00E+00	0.00E+00	3.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-01	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	1.33E+00			0.00E+00	9.72E-06	0.00E+00	0.00E+00	7.30E-06	NA	9.06E-05	NA	0.00E+00	0.00E+00	0.00E+00	1.08E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	1.54E-03	0.00E+00	0.00E+00	7.49E-04	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	NA	NA	NA	NA
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.63E-03	7.30E-05	0.00E+00	2.27E-01	3.07E-05	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-01	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.86E-01	0.00E+00	0.00E+00	1.54E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.93E-01	1.51E-01	1.51E-01	7.81E-05	1.21E-04	0.00E+00	1.40E-03	5.47E-04	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.30E-01	8.14E-03	0.00E+00	2.18E+01	3.42E-03	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.17E-05	7.81E-05	0.00E+00	7.68E-05	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	8.57E-04	0.00E+00	0.00E+00	2.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	1.06E+00	1.84E-01	1.84E-01	0.00E+00	5.01E-03	0.00E+00	0.00E+00	9.71E-03	0.00E+00	3.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	11.21854	acres
Water intake rate =	0.112	L/d
Site Area =	475	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-123
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.26E-09	3.32E-08	0.00E+00	0.00E+00	1.31E-05	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	1.40E-05	9.71E-01	1.40E-04	9.71E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	2.80E-03	3.67E-02	2.80E-02	3.67E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	5.80E-02	5.47E-03	5.80E-01	5.47E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	2.80E-03	6.06E-02	2.80E-02	6.06E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	2.14E+00	1.31E-05	1.07E+01	2.62E-06
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.87E+00	2.42E+01	0.00E+00	0.00E+00	1.97E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+03	1.10E+02	1.82E+01	3.29E+02	6.07E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	4.10E-01	5.59E-04	1.23E+00	1.86E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	1.80E-01	5.89E-04	1.80E+00	5.89E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	1.80E-01	1.75E-03	1.80E+00	1.75E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	1.80E-01	3.34E-03	1.80E+00	3.34E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	1.80E-01	3.13E-04	1.80E+00	3.13E-05
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	6.74E-01	0.00E+00	0.00E+00	5.48E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E+01	2.08E+01	2.67E+00	4.17E+01	1.33E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	2.62E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-01	1.11E+00	2.37E-01	3.33E+00	7.90E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	4.31E-04	0.00E+00	0.00E+00	6.22E-02	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E-02	1.45E+00	4.67E-02	2.00E+01	3.39E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	2.14E+00	6.53E-06	1.07E+01	1.31E-06
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03	1.00E+00	4.14E-03	5.00E+00	8.27E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	2.14E+00	8.62E-06	1.07E+01	1.72E-06
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	4.05E-03	1.83E-02	0.00E+00	0.00E+00	1.74E+00	4.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+00	4.70E+01	3.84E-02	6.17E+01	2.93E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	7.70E-02	1.74E-04	2.31E-01	5.80E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	3.00E-01	6.62E-05	9.00E-01	2.21E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.98E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.74E-03	0.00E+00	0.00E+00	0.00E+00	NA	1.56E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-02	1.13E+00	1.53E-02	1.13E+01	1.53E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E+00	9.77E+02	1.23E-03	9.77E+03	1.23E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	4.50E-01	4.48E-03	9.00E-01	2.24E-03
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	1.95E-04	0.00E+00	0.00E+00	2.64E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.84E-03	6.40E-03	4.44E-01	6.40E-02	4.44E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	2.59E-02	0.00E+00	0.00E+00	1.08E+00	1.59E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	7.74E+01	1.64E-02	1.07E+02	1.19E-02
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.79E-01	1.76E-03	0.00E+00	0.00E+00	6.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.40E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	2.14E+00	5.94E-06	1.07E+01	1.19E-06
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	6.73E+00	9.41E-06	6.73E+01	9.41E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	6.73E+00	4.41E-03	6.73E+01	4.41E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	6.50E+01	2.32E-05	1.30E+02	1.16E-05
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	1.11E-03	2.14E-03	0.00E+00	0.00E+00	1.74E-01	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-01	1.80E+00	9.96E-02	5.40E+00	3.32E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.38E+01	1.77E-01	0.00E+00	0.00E+00	0.00E+00	1.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.81E-04	1.41E-03	0.00E+00	0.00E+00	1.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	3.50E-01	3.32E-01	1.05E+00	1.11E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	2.14E+00	1.06E-05	1.07E+01	2.11E-06
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-02	1.14E+01	1.86E-03	3.42E+01	6.20E-04
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	8.42E-02	0.00E+00	0.00E+00	1.15E+01	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E+01	1.45E+01	8.05E-01	1.31E+02	8.91E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.5E-05	8.9E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.0E-01	1.0E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.6E-03	7.9E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.4E-01	7.9E-02
Aldrin/Dieldrin/Endrin EEQ:	2.4E-04	8.0E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF =

Table O-124
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.92E-09	9.42E-09	0.00E+00	0.00E+00	7.95E-07	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-07	1.40E-05	6.94E-02	1.40E-04	6.94E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	2.80E-03	1.21E-02	2.80E-02	1.21E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	5.80E-02	2.27E-03	5.80E-01	2.27E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	2.80E-03	1.67E-02	2.80E-02	1.67E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	2.14E+00	6.33E-06	1.07E+01	1.27E-06
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.69E+00	1.77E+01	0.00E+00	0.00E+00	1.44E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E+03	1.10E+02	1.33E+01	3.29E+02	4.42E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	4.10E-01	2.68E-04	1.23E+00	8.94E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	1.80E-01	2.89E-04	1.80E+00	2.89E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	1.80E-01	8.14E-04	1.80E+00	8.14E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	1.80E-01	1.05E-03	1.80E+00	1.05E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	1.80E-01	1.68E-04	1.80E+00	1.68E-05
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	5.45E-01	0.00E+00	0.00E+00	4.43E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E+01	2.08E+01	2.16E+00	4.17E+01	1.08E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	5.48E-04	0.00E+00	0.00E+00	4.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-02	1.11E+00	4.21E-02	3.33E+00	1.40E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	4.31E-04	0.00E+00	0.00E+00	4.67E-03	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-03	1.45E+00	6.74E-03	2.00E+01	4.89E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	2.14E+00	3.47E-06	1.07E+01	6.94E-07
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03	1.00E+00	3.37E-03	5.00E+00	6.75E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	2.14E+00	4.26E-06	1.07E+01	8.51E-07
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	2.85E-03	1.60E-02	0.00E+00	0.00E+00	4.52E-01	4.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-01	4.70E+01	1.10E-02	6.17E+01	8.36E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	7.70E-02	9.29E-05	2.31E-01	3.10E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	3.00E-01	3.30E-05	9.00E-01	1.10E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.87E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.36E-03	0.00E+00	0.00E+00	0.00E+00	NA	1.15E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	1.13E+00	1.14E-02	1.13E+01	1.14E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00	9.77E+02	1.08E-03	9.77E+03	1.08E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	4.50E-01	4.33E-03	9.00E-01	2.17E-03
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.44E-04	0.00E+00	0.00E+00	1.95E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.10E-03	6.40E-03	3.28E-01	6.40E-02	3.28E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	2.28E-02	0.00E+00	0.00E+00	2.01E-01	3.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-01	7.74E+01	3.30E-03	1.07E+02	2.39E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-01	1.08E-03	0.00E+00	0.00E+00	8.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								7.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	2.14E+00	3.32E-06	1.07E+01	6.64E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	6.73E+00	1.49E-03	6.73E+01	1.49E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	6.50E+01	1.68E-06	1.30E+02	8.40E-07
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	9.36E-04	1.80E-03	0.00E+00	0.00E+00	1.46E-01	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-01	1.80E+00	8.40E-02	5.40E+00	2.80E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.94E+00	1.21E-01	0.00E+00	0.00E+00	9.16E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.40E-04	1.16E-03	0.00E+00	0.00E+00	9.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-02	3.50E-01	2.73E-01	1.05E+00	9.09E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	2.14E+00	5.07E-06	1.07E+01	1.01E-06
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	1.14E+01	1.15E-03	3.42E+01	3.84E-04
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	7.43E-02	0.00E+00	0.00E+00	2.60E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E+00	1.45E+01	1.92E-01	1.31E+02	2.12E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.2E-05	4.5E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.1E-02	3.1E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.6E-03	3.2E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.2E-02	1.4E-02
Aldrin/Dieldrin/Endrin EEQ:	1.3E-04	4.2E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LO

Table O-125
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	9.44E-10	0.00E+00	1.13E-06	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	1.40E-05	8.54E-01	1.40E-04	8.54E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	2.80E-03	9.65E-01	2.80E-02	9.65E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	8.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-03	5.80E-02	1.44E-01	5.80E-01	1.44E-02
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	2.80E-03	1.59E+00	2.80E-02	1.59E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.40E-06	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.83E-06	0.00E+00	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	2.14E+00	3.44E-04	1.07E+01	6.88E-05
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E+00	1.10E+02	1.85E-02	3.29E+02	6.17E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.18E-03	0.00E+00	0.00E+00	8.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.77E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	5.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	4.10E-01	1.47E-02	1.23E+00	4.90E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	1.80E-01	1.55E-02	1.80E+00	1.55E-03
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	8.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-03	1.80E-01	4.60E-02	1.80E+00	4.60E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-02	1.80E-01	8.78E-02	1.80E+00	8.78E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	1.80E-01	8.22E-03	1.80E+00	8.22E-04
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	4.93E-03	0.00E+00	0.00E+00	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	1.45E+00	9.51E-02	2.00E+01	6.90E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.41E-06	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	2.14E+00	1.71E-04	1.07E+01	3.43E-05
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.27E-03	0.00E+00	1.57E-01	0.00E+00	0.00E+00	2.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-01	1.00E+00	1.87E-01	5.00E+00	3.74E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	2.14E+00	2.26E-04	1.07E+01	4.53E-05
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.69E-03	0.00E+00	9.54E-02	0.00E+00	0.00E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	4.70E+01	2.78E-02	6.17E+01	2.11E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	7.70E-02	4.57E-03	2.31E-01	1.52E-03
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.53E-06	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	3.00E-01	1.74E-03	9.00E-01	5.80E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.83E-06	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.91E+00	0.00E+00	1.29E+02	0.00E+00	0.00E+00	9.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	7.24E-04	0.00E+00	2.29E+00	0.00E+00	NA	4.07E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.37E-02	0.00E+00	1.20E+01	0.00E+00	0.00E+00	2.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E+01	9.77E+02	3.85E-02	9.77E+03	3.85E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	5.26E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-02	4.50E-01	1.19E-01	9.00E-01	5.93E-02
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	6.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.12E-02	0.00E+00	0.00E+00	4.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E+00	7.74E+01	5.47E-02	1.07E+02	3.96E-02
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-02	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.26E-06	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	2.14E+00	1.56E-04	1.07E+01	3.12E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	6.73E+00	2.47E-04	6.73E+01	2.47E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.43E-03	0.00E+00	0.00E+00	7.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-01	6.73E+00	1.16E-01	6.73E+01	1.16E-02
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.59E-03	0.00E+00	0.00E+00	3.94E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-02	6.50E+01	6.61E-04	1.30E+02	3.31E-04
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	4.63E-04	0.00E+00	5.30E-03	0.00E+00	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-02	1.80E+00	3.65E-02	5.40E+00	1.22E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	4.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-01	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.76E+00	0.00E+00	2.95E+00	0.00E+00	0.00E+00	3.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	3.50E-01	2.16E-04	1.05E+00	7.19E-05
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.90E-06	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	2.14E+00	2.78E-04	1.07E+01	5.55E-05
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.18E-03	0.00E+00	1.97E-01	0.00E+00	0.00E+00	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-01	1.14E+01	3.24E-02	3.42E+01	1.08E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	7.56E-01	0.00E+00	0.00E+00	3.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E+00	1.45E+01	2.93E-01	1.31E+02	3.24E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.2E-03	2.4E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.7E+00	2.7E-01
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.7E-01	2.1E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	6.3E-03	2.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or B

Table O-126
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	8.00E-10	0.00E+00	4.09E-08	0.00E+00	0.00E+00	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-06	1.40E-05	3.12E-01	1.40E-04	3.12E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-04	2.80E-03	3.19E-01	2.80E-02	3.19E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	5.80E-02	6.00E-02	5.80E-01	6.00E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	2.80E-03	4.41E-01	2.80E-02	4.41E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.26E-06	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	2.14E+00	1.67E-04	1.07E+01	3.34E-05
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+00	1.10E+02	1.02E-02	3.29E+02	3.41E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	6.54E-03	0.00E+00	0.00E+00	1.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	4.10E-01	7.08E-03	1.23E+00	2.36E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	1.80E-01	7.64E-03	1.80E+00	7.64E-04
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03	1.80E-01	2.15E-02	1.80E+00	2.15E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	4.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03	1.80E-01	2.77E-02	1.80E+00	2.77E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	1.80E-01	4.44E-03	1.80E+00	4.44E-04
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	4.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-02	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	1.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-01	1.45E+00	8.69E-02	2.00E+01	6.30E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.22E-06	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	2.14E+00	9.17E-05	1.07E+01	1.83E-05
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	9.95E-04	0.00E+00	1.42E-01	0.00E+00	0.00E+00	2.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-01	1.00E+00	1.68E-01	5.00E+00	3.37E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	2.14E+00	1.12E-04	1.07E+01	2.25E-05
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	1.19E-03	0.00E+00	8.38E-02	0.00E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+00	4.70E+01	2.67E-02	6.17E+01	2.04E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	7.70E-02	2.45E-03	2.31E-01	8.18E-04
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	3.00E-01	8.71E-04	9.00E-01	2.90E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.48E-06	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.61E+00	0.00E+00	1.17E+02	0.00E+00	0.00E+00	4.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.66E-04	0.00E+00	1.70E+00	0.00E+00	NA	3.01E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	1.13E+00	1.77E+00	1.13E+01	1.77E-01
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.92E-02	0.00E+00	1.07E+01	0.00E+00	0.00E+00	2.31E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E+01	9.77E+02	3.47E-02	9.77E+03	3.47E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	5.09E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-02	4.50E-01	1.15E-01	9.00E-01	5.73E-02
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.70E-06	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.16E-02	0.00E+00	0.00E+00	8.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-01	7.74E+01	1.18E-02	1.07E+02	8.53E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-02	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								2.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	2.14E+00	8.77E-05	1.07E+01	1.75E-05
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	6.73E+00	9.12E-05	6.73E+01	9.12E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.18E-03	0.00E+00	0.00E+00	2.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-01	6.73E+00	3.93E-02	6.73E+01	3.93E-03
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.89E-04	0.00E+00	0.00E+00	2.85E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	6.50E+01	5.91E-05	1.30E+02	2.95E-05
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	3.90E-04	0.00E+00	4.80E-03	0.00E+00	0.00E+00	5.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-02	1.80E+00	3.39E-02	5.40E+00	1.13E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.67E-01	0.00E+00	0.00E+00	1.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-01	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.15E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	4.81E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	3.50E-01	1.67E-04	1.05E+00	5.58E-05
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.24E-06	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	2.14E+00	1.34E-04	1.07E+01	2.68E-05
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.29E-03	0.00E+00	1.86E-01	0.00E+00	0.00E+00	7.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-01	1.14E+01	2.32E-02	3.42E+01	7.75E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	6.16E-01	0.00E+00	0.00E+00	2.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E+00	1.45E+01	2.38E-01	1.31E+02	2.64E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	5.9E-04	1.2E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.2E-01	8.2E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.8E-02	8.5E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	3.3E-03	1.1E-03

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home

Table O-127
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.02E-09	9.86E-08	0.00E+00	1.96E-04	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	1.40E-05	1.44E+01	1.40E-04	1.44E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.20E+00	7.18E+01	0.00E+00	1.07E+01	8.09E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E+02	1.10E+02	8.15E+00	3.29E+02	2.72E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.00E+00	0.00E+00	0.00E+00	2.25E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E+01	2.08E+01	1.18E+00	4.17E+01	5.88E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-01	1.11E+00	9.89E-02	3.33E+00	3.30E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	1.28E-03	0.00E+00	0.00E+00	2.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02	1.45E+00	1.85E-02	2.00E+01	1.34E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.37E-03	0.00E+00	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E+00	1.00E+00	1.55E+00	5.00E+00	3.10E-01
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	1.83E-03	5.43E-02	0.00E+00	1.22E+01	7.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+01	4.70E+01	2.77E-01	6.17E+01	2.11E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.15E+00	0.00E+00	0.00E+00	3.56E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+03	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	7.83E-04	0.00E+00	0.00E+00	1.33E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E+00	3.85E+00	3.46E-01	1.16E+01	1.15E-01
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.01E-01	0.00E+00	0.00E+00	2.29E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+02	9.77E+02	2.35E-01	9.77E+03	2.35E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	5.79E-04	0.00E+00	0.00E+00	1.09E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.67E-03	6.40E-03	2.60E-01	6.40E-02	2.60E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	7.68E-02	0.00E+00	0.00E+00	4.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-01	7.74E+01	6.75E-03	1.07E+02	4.88E-03
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.06E-02	5.23E-03	0.00E+00	9.75E+01	2.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E+01	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.32E+00	0.00E+00	0.00E+00	7.64E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E+03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	5.00E-04	6.34E-03	0.00E+00	1.16E-01	7.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-01	4.40E-01	4.42E-01	1.50E+00	1.30E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.23E+00	5.25E-01	0.00E+00	7.53E+03	2.76E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E+03	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							8.16E-05	4.19E-03	0.00E+00	1.47E+00	4.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+00	3.50E-01	4.34E+00	1.05E+00	1.45E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.68E-03	0.00E+00	0.00E+00	8.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E+00	1.14E+01	7.09E-01	3.42E+01	2.36E-01
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	2.50E-01	0.00E+00	0.00E+00	4.71E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E+00	1.45E+01	3.42E-01	1.31E+02	3.78E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	9.9E-02	3.3E-02
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from app

Table O-128
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	NOAEL	EEQ N	LOAEL	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.22E-10	7.16E-09	0.00E+00	5.79E-06	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	1.40E-05	4.20E-01	1.40E-04	4.20E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.11E-01	1.34E+01	0.00E+00	1.51E+00	1.51E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+02	1.10E+02	1.52E+00	3.29E+02	5.06E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	4.15E-01	0.00E+00	0.00E+00	4.67E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E+00	2.08E+01	2.44E-01	4.17E+01	1.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	4.16E-04	0.00E+00	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-03	1.11E+00	4.76E-03	3.33E+00	1.59E-03
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	3.28E-04	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04	1.45E+00	5.65E-04	2.00E+01	4.10E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.76E-04	0.00E+00	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	1.00E+00	1.13E-01	5.00E+00	2.25E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	3.29E-04	1.22E-02	0.00E+00	4.14E-01	4.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-01	4.70E+01	1.01E-02	6.17E+01	7.68E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.47E-01	0.00E+00	0.00E+00	1.27E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.57E-04	0.00E+00	0.00E+00	7.96E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-02	3.85E+00	2.07E-02	1.16E+01	6.90E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.92E-02	0.00E+00	0.00E+00	5.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	9.77E+02	5.57E-03	9.77E+03	5.57E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.10E-04	0.00E+00	0.00E+00	2.06E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.16E-04	6.40E-03	4.93E-02	6.40E-02	4.93E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	1.74E-02	0.00E+00	0.00E+00	2.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-02	7.74E+01	4.97E-04	1.07E+02	3.60E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.20E-02	8.23E-04	0.00E+00	4.07E+00	8.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E+00	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.12E-01	0.00E+00	0.00E+00	2.76E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E+02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	1.08E-04	1.37E-03	0.00E+00	2.51E-02	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-02	4.40E-01	9.55E-02	1.50E+00	2.80E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.15E+00	9.18E-02	0.00E+00	3.92E+02	9.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E+02	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.62E-05	8.80E-04	0.00E+00	1.38E-03	9.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	3.50E-01	3.48E-02	1.05E+00	1.16E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.19E-03	0.00E+00	0.00E+00	4.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-01	1.14E+01	3.56E-02	3.42E+01	1.19E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	5.65E-02	0.00E+00	0.00E+00	2.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-01	1.45E+01	2.28E-02	1.31E+02	2.52E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.8E-03	1.6E-03
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text

Table O-129
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	5.36E-10	0.00E+00	2.38E-09	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-09	7.96E-10	1.26E-05	1.40E-05	8.98E-01	1.40E-04	8.98E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	5.35E-06	3.68E-05	2.80E-03	1.31E-02	2.80E-02	1.31E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	1.42E-05	9.78E-05	5.80E-02	1.69E-03	5.80E-01	1.69E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	1.23E-05	8.39E-05	2.80E-03	3.00E-02	2.80E-02	3.00E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-06	7.14E-07	4.92E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	1.44E-06	9.89E-06	2.14E+00	4.62E-06	1.07E+01	9.24E-07
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.15E+00	0.00E+00	0.00E+00	6.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E+00	1.10E+02	1.68E-02	3.29E+02	5.59E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	3.51E-04	2.74E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	1.17E-05	8.06E-05	4.10E-01	1.97E-04	1.23E+00	6.56E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	5.42E-06	3.73E-05	1.80E-01	2.07E-04	1.80E+00	2.07E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	1.45E-05	9.97E-05	1.80E-01	5.54E-04	1.80E+00	5.54E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	4.75E-05	3.24E-04	1.80E-01	1.80E-03	1.80E+00	1.80E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	3.24E-06	2.23E-05	1.80E-01	1.24E-04	1.80E+00	1.24E-05
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	2.59E-04	1.79E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.33E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-03	1.17E-03	8.12E-03	1.45E+00	5.60E-03	2.00E+01	4.06E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	7.16E-07	4.93E-06	2.14E+00	2.30E-06	1.07E+01	4.60E-07
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	7.20E-04	0.00E+00	7.37E-03	9.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-02	1.35E-02	1.98E-01	1.00E+00	1.98E-01	5.00E+00	3.96E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06	9.45E-07	6.51E-06	2.14E+00	3.04E-06	1.07E+01	6.08E-07
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	5.59E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	9.60E-04	0.00E+00	4.47E-03	7.82E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-02	3.68E-03	8.12E-01	4.70E+01	1.73E-02	6.17E+01	1.32E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06	7.08E-07	4.88E-06	7.70E-02	6.33E-05	2.31E-01	2.11E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06	1.11E-06	7.63E-06	1.00E-02	7.63E-04	1.00E-01	7.63E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06	8.41E-07	5.79E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.65E+00	0.00E+00	6.04E+00	2.28E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	6.87E-02	2.36E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.12E-04	0.00E+00	1.07E-01	8.50E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	4.49E-02	7.84E-03	2.45E-01	3.85E+00	6.37E-02	1.16E+01	2.12E-02
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	5.33E-02	0.00E+00	5.63E-01	1.47E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-01	2.97E-02	1.55E+01	9.77E+02	1.58E-02	9.77E+03	1.58E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.16E-04	2.03E-05	1.72E-04	4.50E-01	3.83E-04	9.00E-01	1.92E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	1.30E-06	8.97E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	2.38E-03	2.03E-02	7.74E+01	2.62E-04	1.07E+02	1.89E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.24E-02	0.00E+00	0.00E+00	6.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								3.32E+00	0.00E+00	0.00E+00	4.88E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E+02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-06	6.71E-07	4.62E-06	2.14E+00	2.16E-06	1.07E+01	4.32E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	3.37E-06	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03	1.61E-03	1.11E-02	6.73E+00	1.65E-03	6.73E+01	1.65E-04
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	8.83E-04	1.54E-04	1.21E-03	6.50E+01	1.85E-05	1.30E+02	9.27E-06
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	5.02E-01	4.64E-01	4.64E-01	1.95E-01	1.95E-01	2.63E-04	0.00E+00	2.48E-04	7.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	2.66E-04	9.73E-03	4.40E-01	2.21E-02	1.50E+00	6.48E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-02	7.85E-03	6.14E-02	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.27E+00	0.00E+00	1.38E-01	4.82E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-01	1.27E-01	4.86E+02	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							4.29E-05	0.00E+00	0.00E+00	9.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-02	3.50E-01	2.69E-01	1.05E+00	8.95E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	1.16E-06	7.98E-06	2.14E+00	3.73E-06	1.07E+01	7.45E-07
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.51E-03	0.00E+00	9.23E-03	5.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	3.01E-04	5.31E-01	1.14E+01	4.66E-02	3.42E+01	1.55E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	3.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-01	8.79E-02	6.27E-01	1.45E+01	4.32E-02	1.31E+02	4.78E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.6E-05	3.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.5E-02	4.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.9E-03	3.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	8.3E-04	9.7E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (B

Table O-130
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	NOAEL	EEQ N	LOAEL	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	4.55E-10	0.00E+00	1.92E-09	1.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-09	4.98E-10	1.45E-06	1.04E-01	1.40E-04	1.04E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	2.32E-06	1.61E-05	2.80E-03	5.75E-03	2.80E-02	5.75E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	9.67E-06	6.69E-05	5.80E-02	1.15E-03	5.80E-01	1.15E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	3.14E-06	2.17E-05	2.80E-03	7.77E-03	2.80E-02	7.77E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	5.11E-07	3.54E-06	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-06	9.15E-07	6.34E-06	2.14E+00	2.96E-06	1.07E+01	5.93E-07
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	6.38E-01	0.00E+00	0.00E+00	3.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E+00	1.10E+02	9.26E-03	3.29E+02	3.09E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	1.56E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	7.41E-06	5.14E-05	4.10E-01	1.25E-04	1.23E+00	4.18E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	3.51E-06	2.43E-05	1.80E-01	1.35E-04	1.80E+00	1.35E-05
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	5.47E-06	3.88E-05	1.80E-01	2.15E-04	1.80E+00	2.15E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	2.25E-05	1.54E-04	1.80E-01	8.55E-04	1.80E+00	8.55E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	2.30E-06	1.59E-05	1.80E-01	8.86E-05	1.80E+00	8.86E-06
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04	1.48E-04	1.03E-03	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.33E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	6.74E-04	4.71E-03	1.45E+00	3.25E-03	2.00E+01	2.36E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	5.02E-07	3.48E-06	2.14E+00	1.63E-06	1.07E+01	3.25E-07
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	5.65E-04	0.00E+00	6.63E-03	2.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	3.09E-03	5.60E-02	1.00E+00	5.60E-02	5.00E+00	1.12E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	6.15E-07	4.27E-06	2.14E+00	1.99E-06	1.07E+01	3.99E-07
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	6.06E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	6.75E-04	0.00E+00	3.93E-03	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	1.94E-03	1.21E-01	4.70E+01	2.57E-03	6.17E+01	1.96E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	4.99E-07	3.46E-06	7.70E-02	4.49E-05	2.31E-01	1.50E-05
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	9.56E-07	6.58E-06	1.00E-02	6.58E-04	1.00E-01	6.58E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06	5.60E-07	3.89E-06	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	9.17E-01	0.00E+00	5.48E+00	3.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	5.30E-02	3.83E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.22E-04	0.00E+00	7.96E-02	1.99E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	2.92E-02	5.10E-03	1.34E-01	3.85E+00	3.48E-02	1.16E+01	1.16E-02
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.93E-02	0.00E+00	4.99E-01	1.35E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	2.08E-02	2.03E+00	9.77E+02	2.08E-03	9.77E+03	2.08E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	9.37E-05	1.64E-05	1.43E-04	4.50E-01	3.17E-04	9.00E-01	1.58E-04
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-06	8.37E-07	5.81E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	1.83E-03	1.62E-02	7.74E+01	2.09E-04	1.07E+02	1.51E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.45E-02	0.00E+00	0.00E+00	1.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E+00	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.66E+00	0.00E+00	0.00E+00	6.90E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06	4.95E-07	3.43E-06	2.14E+00	1.60E-06	1.07E+01	3.21E-07
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	1.63E-06	1.13E-05	6.73E+00	1.68E-06	6.73E+01	1.68E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	7.18E-04	4.98E-03	6.73E+00	7.40E-04	6.73E+01	7.40E-05
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.62E-04	2.82E-05	2.36E-04	6.50E+01	3.64E-06	1.30E+02	1.82E-06
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	4.93E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	2.22E-04	0.00E+00	2.25E-04	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	7.97E-03	4.40E-01	1.81E-02	1.50E+00	5.31E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	7.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	4.76E-03	3.99E-02	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.36E+00	0.00E+00	7.82E-02	9.77E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-01	4.77E-02	1.00E+02	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							3.33E-05	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-04	3.50E-01	1.08E-03	1.05E+00	3.59E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06	7.33E-07	5.08E-06	2.14E+00	2.38E-06	1.07E+01	4.75E-07
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.44E-03	0.00E+00	8.71E-03	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	2.63E-04	1.14E-01	1.14E+01	9.99E-03	3.42E+01	3.33E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	2.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.92E-02	2.26E-01	1.45E+01	1.56E-02	1.31E+02	1.72E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.1E-05	2.1E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-02	1.5E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.4E-03	1.7E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	7.0E-04	8.1E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropri

Table O-131
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	0.00E+00	7.32E-09	0.00E+00	0.00E+00	4.07E-06	0.00E+00	8.32E-10	0.00E+00	0.00E+00	0.00E+00	4.08E-06	1.00E-06	4.08E+00	1.00E-05	4.08E-01	59.03%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.60E-06	0.00E+00	0.00E+00	1.01E-03	0.00E+00	5.20E-06	0.00E+00	0.00E+00	0.00E+00	1.02E-03	8.00E-01	1.27E-03	4.00E+00	2.54E-04	0.02%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	3.11E-03	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	3.24E-03	8.00E-01	4.05E-03	4.00E+00	8.11E-04	0.06%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	4.13E-06	0.00E+00	0.00E+00	1.66E-03	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	1.68E-03	8.00E-01	2.09E-03	4.00E+00	4.19E-04	0.03%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.47E-07	0.00E+00	0.00E+00	1.39E-04	0.00E+00	5.88E-08	0.00E+00	0.00E+00	0.00E+00	1.40E-04	2.00E-01	6.99E-04	1.00E+00	1.40E-04	0.01%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.98E-07	0.00E+00	0.00E+00	2.75E-04	0.00E+00	7.03E-07	0.00E+00	0.00E+00	0.00E+00	2.76E-04	4.58E+00	6.03E-05	9.16E+00	3.02E-05	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-02	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	3.57E-02	1.25E-01	2.86E-01	1.25E+00	2.86E-02	4.14%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.69E-06	0.00E+00	0.00E+00	2.25E-03	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-03	6.85E-02	3.33E-02	6.85E-01	3.33E-03	0.48%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-06	0.00E+00	0.00E+00	1.04E-03	0.00E+00	6.65E-07	0.00E+00	0.00E+00	0.00E+00	1.04E-03	6.80E-02	1.53E-02	6.80E-01	1.53E-03	0.22%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	3.09E-03	0.00E+00	1.68E-06	0.00E+00	0.00E+00	0.00E+00	3.10E-03	6.80E-02	4.56E-02	6.80E-01	4.56E-03	0.66%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	5.91E-03	0.00E+00	1.57E-06	0.00E+00	0.00E+00	0.00E+00	5.92E-03	6.80E-02	8.71E-02	6.80E-01	8.71E-03	1.26%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.58E-06	0.00E+00	0.00E+00	5.52E-04	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	5.74E-04	6.80E-02	8.44E-03	6.80E-01	8.44E-04	0.12%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	4.18E-02	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	5.21E-02	4.00E+00	1.30E-02	4.00E+01	1.30E-03	0.19%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	7.12E-04	0.00E+00	0.00E+00	5.00E-02	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	6.76E-02	1.00E+00	6.76E-02	1.00E+01	6.76E-03	0.98%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.48E-07	0.00E+00	0.00E+00	1.37E-04	0.00E+00	3.51E-07	0.00E+00	0.00E+00	0.00E+00	1.38E-04	4.58E+00	3.01E-05	9.16E+00	1.50E-05	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.24E-02	0.00E+00	0.00E+00	1.06E-02	0.00E+00	2.69E-01	0.00E+00	0.00E+00	0.00E+00	3.02E-01	2.74E+03	1.10E-04	2.74E+04	1.10E-05	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	1.51E-04	0.00E+00	3.81E-03	0.00E+00	0.00E+00	0.00E+00	4.28E-03	3.28E+00	1.31E-03	1.31E+01	3.26E-04	0.02%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.59E-07	0.00E+00	0.00E+00	1.81E-04	0.00E+00	4.63E-07	0.00E+00	0.00E+00	0.00E+00	1.82E-04	4.58E+00	3.97E-05	9.16E+00	1.99E-05	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00	4.54E-01	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	6.66E-01	1.17E+01	5.69E-02	1.51E+01	4.40E-02	0.82%
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.44E-07	0.00E+00	0.00E+00	1.31E-04	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	1.46E-04	2.00E-02	7.29E-03	2.00E-01	7.29E-04	0.11%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	5.11E-07	0.00E+00	0.00E+00	1.95E-04	0.00E+00	4.88E-07	0.00E+00	0.00E+00	0.00E+00	1.96E-04	9.20E-02	2.13E-03	9.20E-01	2.13E-04	0.03%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.09E-07	0.00E+00	0.00E+00	1.59E-04	0.00E+00	1.93E-07	0.00E+00	0.00E+00	0.00E+00	1.59E-04	8.00E-02	1.99E-03	2.90E-01	5.49E-04	0.03%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	1.86E+01	0.00E+00	0.00E+00	3.63E+01	0.00E+00	1.86E+00	0.00E+00	0.00E+00	0.00E+00	5.67E+01	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	9.00E-04	0.00E+00	3.30E-01	0.00E+00	NA	1.53E-01	NA	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.07E-01	8.00E+00	8.84E-02	8.00E+01	8.84E-03	1.28%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	0.00E+00	1.73E+00	0.00E+00	0.00E+00	9.58E+00	0.00E+00	4.34E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+01	8.80E+01	1.78E-01	2.84E+02	5.51E-02	2.58%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.98E-02	NA	3.72E-03	0.00E+00	0.00E+00	0.00E+00	2.36E-02	1.32E+01	1.79E-03	3.96E+01	5.96E-04	0.03%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.33E-07	0.00E+00	0.00E+00	2.57E-04	0.00E+00	5.44E-07	0.00E+00	0.00E+00	0.00E+00	2.58E-04	7.00E-02	3.69E-03	7.00E-01	3.69E-04	0.05%
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.32E-02	0.00E+00	0.00E+00	1.56E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	1.59E+00	4.00E+01	3.98E-02	8.00E+01	1.99E-02	0.58%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	5.33E-05	1.13E+03	2.39E-05	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.26E-07	0.00E+00	0.00E+00	1.25E-04	0.00E+00	2.15E-07	0.00E+00	0.00E+00	0.00E+00	1.25E-04	4.58E+00	2.73E-05	9.16E+00	1.37E-05	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.64E-06	0.00E+00	0.00E+00	6.22E-04	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	6.25E-04	2.40E-01	2.60E-03	2.40E+00	2.60E-04	0.04%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-01	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00	2.92E-01	2.40E-01	1.22E+00	2.40E+00	1.22E-01	17.64%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	1.48E-02	NA	2.44E-01	0.00E+00	0.00E+00	0.00E+00	2.59E-01	8.50E+00	3.05E-02	2.55E+01	1.02E-02	0.44%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	2.25E-02	0.00E+00	8.87E-03	0.00E+00	0.00E+00	0.00E+00	3.22E-02	2.00E-01	1.61E-01	3.30E-01	9.75E-02	2.33%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	1.84E-01	0.00E+00	2.32E-01	0.00E+00	0.00E+00	0.00E+00	4.42E-01	2.63E+02	1.68E-03	7.89E+02	5.60E-04	0.02%
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.50E+00	0.00E+00	4.27E-01	0.00E+00	0.00E+00	1.22E+01	0.00E+00	3.73E+00	0.00E+00	0.00E+00	0.00E+00	1.78E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.63E-07	0.00E+00	0.00E+00	2.22E-04	0.00E+00	5.67E-07	0.00E+00	0.00E+00	0.00E+00	2.23E-04	4.58E+00	4.87E-05	9.16E+00	2.43E-05	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	2.84E-02	0.00E+00	0.00E+00	6.26E-02	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	9.39E-02	2.10E-01	4.47E-01	2.10E+00	4.47E-02	6.47%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.31E+00	0.00E+00	2.21E+00	0.00E+00	0.00E+00	0.00E+00	3.63E+00	1.60E+02	2.27E-02	3.20E+02	1.13E-02	0.33%

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Table O-132
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d																
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	0.00E+00	5.90E-09	0.00E+00	0.00E+00	1.62E-06	0.00E+00	5.72E-10	0.00E+00	0.00E+00	0.00E+00	1.63E-06	1.00E-06	1.63E+00	1.00E-05	1.63E-01	54.33%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.48E-06	0.00E+00	0.00E+00	3.32E-04	0.00E+00	1.04E-06	0.00E+00	0.00E+00	0.00E+00	3.35E-04	8.00E-01	4.18E-04	4.00E+00	8.37E-05	0.01%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	5.75E-06	0.00E+00	0.00E+00	1.29E-03	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	1.32E-03	8.00E-01	1.65E-03	4.00E+00	3.30E-04	0.05%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.98E-06	0.00E+00	0.00E+00	4.59E-04	0.00E+00	1.39E-06	0.00E+00	0.00E+00	0.00E+00	4.63E-04	8.00E-01	5.79E-04	4.00E+00	1.16E-04	0.02%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.27E-07	0.00E+00	0.00E+00	7.56E-05	0.00E+00	3.97E-08	0.00E+00	0.00E+00	0.00E+00	7.60E-05	2.00E-01	3.80E-04	1.00E+00	7.60E-05	0.01%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.84E-07	0.00E+00	0.00E+00	1.33E-04	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	1.34E-04	4.58E+00	2.92E-05	9.16E+00	1.46E-05	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-03	0.00E+00	8.74E-04	0.00E+00	0.00E+00	0.00E+00	7.96E-03	1.25E-01	6.37E-02	1.25E+00	6.37E-03	2.12%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	1.08E-03	0.00E+00	9.92E-07	0.00E+00	0.00E+00	0.00E+00	1.08E-03	6.85E-02	1.58E-02	6.85E-01	1.58E-03	0.53%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-06	0.00E+00	0.00E+00	5.11E-04	0.00E+00	4.70E-07	0.00E+00	0.00E+00	0.00E+00	5.13E-04	6.80E-02	7.55E-03	6.80E-01	7.55E-04	0.25%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	1.44E-03	0.00E+00	5.50E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-03	6.80E-02	2.12E-02	6.80E-01	2.12E-03	0.71%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	7.55E-06	0.00E+00	0.00E+00	1.86E-03	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.86E-03	6.80E-02	2.74E-02	6.80E-01	2.74E-03	0.91%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	2.97E-04	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	3.17E-04	6.80E-02	4.67E-03	6.80E-01	4.67E-04	0.16%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	1.81E-02	0.00E+00	7.60E-03	0.00E+00	0.00E+00	0.00E+00	2.58E-02	4.00E+00	6.45E-03	4.00E+01	6.45E-04	0.21%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	4.59E-02	0.00E+00	1.49E-02	0.00E+00	0.00E+00	0.00E+00	6.13E-02	1.00E+00	6.13E-02	1.00E+01	6.13E-03	2.04%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.21E-07	0.00E+00	0.00E+00	7.29E-05	0.00E+00	7.48E-08	0.00E+00	0.00E+00	0.00E+00	7.33E-05	4.58E+00	1.60E-05	9.16E+00	8.00E-06	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.02E-02	0.00E+00	0.00E+00	9.57E-03	0.00E+00	2.07E-02	0.00E+00	0.00E+00	0.00E+00	5.04E-02	2.74E+03	1.84E-05	2.74E+04	1.84E-06	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	1.36E-04	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	7.15E-04	3.28E+00	2.18E-04	1.31E+01	5.45E-05	0.01%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.93E-07	0.00E+00	0.00E+00	8.93E-05	0.00E+00	9.17E-08	0.00E+00	0.00E+00	0.00E+00	8.98E-05	4.58E+00	1.96E-05	9.16E+00	9.81E-06	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	4.40E-01	0.00E+00	1.88E-01	0.00E+00	0.00E+00	0.00E+00	6.40E-01	1.17E+01	5.47E-02	1.51E+01	4.23E-02	1.82%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.19E-07	0.00E+00	0.00E+00	7.02E-05	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	7.07E-05	2.00E-02	3.53E-03	2.00E-01	3.53E-04	0.12%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.41E-07	0.00E+00	0.00E+00	9.71E-05	0.00E+00	3.02E-07	0.00E+00	0.00E+00	0.00E+00	9.78E-05	9.20E-02	1.06E-03	9.20E-01	1.06E-04	0.04%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.58E-07	0.00E+00	0.00E+00	8.01E-05	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	8.06E-05	8.00E-02	1.01E-03	2.90E-01	2.78E-04	0.03%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	1.69E+01	0.00E+00	0.00E+00	1.52E+01	0.00E+00	1.69E+00	0.00E+00	0.00E+00	0.00E+00	3.38E+01	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	6.00E-04	0.00E+00	2.45E-01	0.00E+00	NA	1.13E-01	NA	1.89E-01	0.00E+00	0.00E+00	0.00E+00	5.48E-01	8.00E+00	6.85E-02	8.00E+01	6.85E-03	2.28%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	0.00E+00	1.54E+00	0.00E+00	0.00E+00	8.70E+00	0.00E+00	3.04E+00	0.00E+00	0.00E+00	0.00E+00	1.33E+01	8.80E+01	1.51E-01	2.84E+02	4.67E-02	5.02%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	1.91E-02	NA	3.53E-03	0.00E+00	0.00E+00	0.00E+00	2.28E-02	1.32E+01	1.72E-03	3.96E+01	5.75E-04	0.06%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.35E-07	0.00E+00	0.00E+00	1.25E-04	0.00E+00	4.60E-08	0.00E+00	0.00E+00	0.00E+00	1.26E-04	7.00E-02	1.80E-03	7.00E-01	1.80E-04	0.06%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.18E-02	0.00E+00	0.00E+00	3.12E-01	0.00E+00	2.02E-02	0.00E+00	0.00E+00	0.00E+00	3.44E-01	4.00E+01	8.60E-03	8.00E+01	4.30E-03	0.29%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-03	5.07E+02	1.92E-05	1.13E+03	8.63E-06	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.16E-07	0.00E+00	0.00E+00	6.97E-05	0.00E+00	2.08E-07	0.00E+00	0.00E+00	0.00E+00	7.02E-05	4.58E+00	1.53E-05	9.16E+00	7.67E-06	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	2.28E-04	0.00E+00	7.14E-07	0.00E+00	0.00E+00	0.00E+00	2.30E-04	2.40E-01	9.57E-04	2.40E+00	9.57E-05	0.03%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-02	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	9.88E-02	2.40E-01	4.12E-01	2.40E+00	4.12E-02	13.71%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	1.07E-03	NA	1.14E-01	0.00E+00	0.00E+00	0.00E+00	1.15E-01	8.50E+00	1.36E-02	2.55E+01	4.52E-03	0.45%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	6.93E-04	0.00E+00	0.00E+00	2.10E-02	0.00E+00	7.95E-03	0.00E+00	0.00E+00	0.00E+00	2.96E-02	2.00E-01	1.48E-01	3.30E-01	8.97E-02	4.93%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.41E-02	0.00E+00	0.00E+00	5.24E-02	0.00E+00	1.26E-01	0.00E+00	0.00E+00	0.00E+00	2.03E-01	2.63E+02	7.72E-04	7.89E+02	2.57E-04	0.03%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.63E-01	0.00E+00	2.41E-01	0.00E+00	0.00E+00	1.81E+00	0.00E+00	1.27E+00	0.00E+00	0.00E+00	0.00E+00	4.18E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.69E-07	0.00E+00	0.00E+00	1.06E-04	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	1.07E-04	4.58E+00	2.34E-05	9.16E+00	1.17E-05	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	2.68E-02	0.00E+00	0.00E+00	2.82E-02	0.00E+00	2.42E-03	0.00E+00	0.00E+00	0.00E+00	5.74E-02	2.10E-01	2.73E-01	2.10E+00	2.73E-02	9.11%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	8.89E-02	0.00E+00	0.00E+00	1.07E+00	0.00E+00	1.97E+00	0.00E+00	0.00E+00	0.00E+00	3.12E+00	1.60E+02	1.95E-02	3.20E+02	9.76E-03	0.65%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
**Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptach

Table O-133
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	1.65E-08	9.31E-09	0.00E+00	1.15E-06	6.60E-07	0.00E+00	5.40E-10	0.00E+00	6.03E-10	0.00E+00	1.84E-06	1.00E-06	1.84E+00	1.00E-05	1.84E-01	0.59%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	1.64E-04	0.00E+00	3.37E-06	0.00E+00	4.05E-06	0.00E+00	1.74E-04	8.00E-01	2.18E-04	4.00E+00	4.36E-05	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	5.05E-04	0.00E+00	8.03E-05	0.00E+00	1.07E-05	0.00E+00	6.06E-04	8.00E-01	7.58E-04	4.00E+00	1.52E-04	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	5.26E-06	0.00E+00	0.00E+00	2.70E-04	0.00E+00	5.37E-06	0.00E+00	9.30E-06	0.00E+00	2.90E-04	8.00E-01	3.62E-04	4.00E+00	7.25E-05	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-07	0.00E+00	0.00E+00	2.26E-05	0.00E+00	3.82E-08	0.00E+00	5.41E-07	0.00E+00	2.36E-05	2.00E-01	1.18E-04	1.00E+00	2.36E-05	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.87E-07	0.00E+00	0.00E+00	4.46E-05	0.00E+00	4.57E-07	0.00E+00	1.09E-06	0.00E+00	4.71E-05	4.58E+00	1.03E-05	9.16E+00	5.14E-06	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	3.84E+01	0.00E+00	0.00E+00	5.52E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E+02	1.93E+00	3.06E+02	1.93E+01	3.06E+01	97.81%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-03	0.00E+00	1.34E-03	0.00E+00	2.66E-04	0.00E+00	7.07E-03	1.25E-01	5.66E-02	1.25E+00	5.66E-03	0.02%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	3.65E-04	0.00E+00	1.51E-05	0.00E+00	8.87E-06	0.00E+00	3.96E-04	6.85E-02	5.79E-03	6.85E-01	5.79E-04	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.35E-06	0.00E+00	0.00E+00	1.69E-04	0.00E+00	4.32E-07	0.00E+00	4.10E-06	0.00E+00	1.77E-04	6.80E-02	2.60E-03	6.90E-01	2.56E-04	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	9.69E-06	0.00E+00	0.00E+00	5.01E-04	0.00E+00	1.09E-06	0.00E+00	1.09E-05	0.00E+00	5.23E-04	6.80E-02	7.69E-03	6.90E-01	7.58E-04	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	1.76E-05	0.00E+00	0.00E+00	9.59E-04	0.00E+00	1.02E-06	0.00E+00	3.60E-05	0.00E+00	1.01E-03	6.80E-02	1.49E-02	6.90E-01	1.47E-03	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.01E-06	0.00E+00	0.00E+00	8.96E-05	0.00E+00	1.35E-05	0.00E+00	2.46E-06	0.00E+00	1.08E-04	6.80E-02	1.58E-03	6.90E-01	1.56E-04	0.00%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.78E-01	0.00E+00	0.00E+00	5.43E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E+00	5.10E+00	1.14E+00	1.98E+01	2.93E-01	0.36%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	6.79E-03	0.00E+00	6.58E-03	0.00E+00	1.97E-04	0.00E+00	1.37E-02	4.00E+00	3.43E-03	4.00E+01	3.43E-04	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	5.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-02	1.83E+01	2.79E-03	1.83E+02	2.79E-04	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	5.05E-04	9.05E-04	0.00E+00	1.29E-02	8.11E-03	0.00E+00	1.10E-02	0.00E+00	8.88E-04	0.00E+00	3.43E-02	1.00E+00	3.43E-02	1.00E+01	3.43E-03	0.01%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.42E-07	0.00E+00	0.00E+00	2.22E-05	0.00E+00	2.28E-07	0.00E+00	5.42E-07	0.00E+00	2.35E-05	4.58E+00	5.12E-06	9.16E+00	2.56E-06	0.00%
Chromium (trivalent)	0.00E+00	mg/L	1.21E+01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.85E-02	0.00E+00	0.00E+00	1.73E-03	0.00E+00	1.74E-01	0.00E+00	1.01E-02	0.00E+00	2.15E-01	2.74E+03	7.85E-05	2.74E+04	7.85E-06	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	1.71E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.04E-04	0.00E+00	0.00E+00	2.45E-05	0.00E+00	2.48E-03	0.00E+00	1.43E-04	0.00E+00	3.05E-03	3.28E+00	9.30E-04	1.31E+01	2.32E-04	0.00%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.84E-07	0.00E+00	0.00E+00	2.94E-05	0.00E+00	3.01E-07	0.00E+00	7.16E-07	0.00E+00	3.10E-05	4.58E+00	6.76E-06	9.16E+00	3.38E-06	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	2.53E-02	1.75E-02	0.00E+00	4.23E-01	7.37E-02	0.00E+00	1.29E-01	0.00E+00	2.79E-03	0.00E+00	6.71E-01	1.17E+01	5.74E-02	1.51E+01	4.43E-02	0.02%
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.38E-07	0.00E+00	0.00E+00	2.13E-05	0.00E+00	9.16E-06	0.00E+00	5.37E-07	0.00E+00	3.15E-05	2.00E-02	1.57E-03	2.00E-01	1.57E-04	0.00%
Endrin	0.00E+00	mg/L	2.75E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	6.49E-07	0.00E+00	0.00E+00	3.16E-05	0.00E+00	3.17E-07	0.00E+00	8.40E-07	0.00E+00	3.34E-05	9.20E-02	3.64E-04	9.20E-01	3.64E-05	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.20E-07	0.00E+00	0.00E+00	2.57E-05	0.00E+00	1.25E-07	0.00E+00	6.37E-07	0.00E+00	2.70E-05	8.00E-02	3.38E-04	2.90E-01	9.32E-05	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	2.37E+01	0.00E+00	0.00E+00	5.89E+00	0.00E+00	1.21E+00	0.00E+00	5.21E-02	0.00E+00	3.08E+01	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.47E-04	0.00E+00	4.20E-01	1.13E-02	NA	2.48E-02	NA	1.45E-01	0.00E+00	5.94E-03	0.00E+00	6.07E-01	8.00E+00	7.59E-02	8.00E+01	7.59E-03	0.02%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	1.15E+00	2.21E+00	0.00E+00	7.71E+00	1.56E+00	0.00E+00	2.82E+00	0.00E+00	2.25E-02	0.00E+00	1.55E+01	8.80E+01	1.76E-01	2.84E+02	5.44E-02	0.06%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	3.21E-03	NA	2.41E-03	0.00E+00	1.54E-05	0.00E+00	5.78E-03	1.00E+00	5.78E-03	3.00E+00	1.93E-03	0.00%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	1.89E-04	0.00E+00	0.00E+00	4.52E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	6.41E-04	1.50E-02	4.27E-02	2.50E-02	2.56E-02	0.01%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.05E-07	0.00E+00	0.00E+00	4.17E-05	0.00E+00	3.53E-07	0.00E+00	9.87E-07	0.00E+00	4.38E-05	7.00E-02	6.26E-04	7.00E-01	6.26E-05	0.00%
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	2.60E-02	1.68E-02	0.00E+00	1.93E-01	2.53E-01	0.00E+00	1.42E-02	0.00E+00	1.80E-03	0.00E+00	5.05E-01	4.00E+01	1.26E-02	8.00E+01	6.31E-03	0.00%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.41E-03	2.33E-03	0.00E+00	2.41E-01	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-01	5.07E+02	5.26E-04	1.13E+03	2.36E-04	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.15E-07	0.00E+00	0.00E+00	2.02E-05	0.00E+00	1.39E-07	0.00E+00	5.08E-07	0.00E+00	2.13E-05	4.58E+00	4.65E-06	9.16E+00	2.32E-06	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.08E-06	0.00E+00	0.00E+00	1.01E-04	0.00E+00	8.90E-07	0.00E+00	2.55E-06	0.00E+00	1.06E-04	2.40E-01	4.43E-04	2.40E+00	4.43E-05	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-02	0.00E+00	8.97E-04	0.00E+00	1.22E-03	0.00E+00	4.94E-02	2.40E-01	2.06E-01	2.40E+00	2.06E-02	0.07%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.60E-04	0.00E+00	0.00E+00	2.40E-03	NA	1.58E-01	0.00E+00	1.17E-04	0.00E+00	1.62E-01	8.50E+00	1.90E-02	2.55E+01	6.33E-03	0.01%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	2.06E-03	9.73E-04	0.00E+00	2.96E-02	3.66E-03	0.00E+00	5.76E-03	0.00E+00	2.02E-04	0.00E+00	4.23E-02	2.00E-01	2.11E-01	3.30E-01	1.28E-01	0.07%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.37E-02	0.00E+00	0.00E+00	2.99E-02	0.00E+00	1.50E-01	0.00E+00	5.95E-03	0.00E+00	2.20E-01	2.63E+02	8.36E-04	7.89E+02	2.79E-04	0.00%
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.12E-01	7.07E-02	5.42E-01	1.34E+01	4.74E-01	1.97E+00	0.00E+00	2.42E+00	0.00E+00	9.59E-02	0.00E+00	1.94E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.16E-07	0.00E+00	0.00E+00	3.60E-05	0.00E+00	3.68E-07	0.00E+00	8.77E-07	0.00E+00	3.80E-05	4.58E+00	8.29E-06	9.16E+00	4.14E-06	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	7.26E-02	3.62E-02	0.00E+00	4.87E-01	1.02E-02	0.00E+00	1.85E-03	0.00E+00	2.28E-04	0.00E+00	6.08E-01	2.10E-01	2.89E+00	2.10E+00	2.89E-01	0.93%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	1.21E-01	1.39E-01	0.00E+00	2.91E+00	2.13E-01	0.00E+00	1.43E+00	0.00E+00	6.66E-02	0.00E+00	4.89E+00	1.60E+02	3.05E-02	3.20E+02	1.53E-02	0.01%

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Table O-134
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	1.65E-08	7.51E-09	0.00E+00	2.45E-07	2.64E-07	0.00E+00	3.71E-10	0.00E+00	3.77E-10	0.00E+00	5.34E-07	1.00E-06	5.34E-01	1.00E-05	5.34E-02	0.24%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.89E-06	0.00E+00	0.00E+00	5.39E-05	0.00E+00	6.75E-07	0.00E+00	1.76E-06	0.00E+00	5.82E-05	8.00E-01	7.28E-05	4.00E+00	1.46E-05	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	1.27E-05	0.00E+00	7.33E-06	0.00E+00	2.37E-04	8.00E-01	2.97E-04	4.00E+00	5.93E-05	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	2.52E-06	0.00E+00	0.00E+00	7.46E-05	0.00E+00	9.00E-07	0.00E+00	2.38E-06	0.00E+00	8.04E-05	8.00E-01	1.00E-04	4.00E+00	2.01E-05	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.15E-07	0.00E+00	0.00E+00	1.23E-05	0.00E+00	2.58E-08	0.00E+00	3.87E-07	0.00E+00	1.31E-05	2.00E-01	6.55E-05	1.00E+00	1.31E-05	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.43E-07	0.00E+00	0.00E+00	2.16E-05	0.00E+00	8.85E-08	0.00E+00	6.93E-07	0.00E+00	2.31E-05	4.58E+00	5.04E-06	9.16E+00	2.52E-06	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	2.79E+01	0.00E+00	0.00E+00	4.00E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E+02	1.93E+00	2.22E+02	1.93E+01	2.22E+01	98.75%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	5.67E-04	0.00E+00	1.42E-04	0.00E+00	1.86E-03	1.25E-01	1.49E-02	1.25E+00	1.49E-03	0.01%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.02E-06	0.00E+00	0.00E+00	1.75E-04	0.00E+00	6.44E-07	0.00E+00	5.61E-06	0.00E+00	1.87E-04	6.85E-02	2.73E-03	6.85E-01	2.73E-04	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	8.29E-05	0.00E+00	3.05E-07	0.00E+00	2.66E-06	0.00E+00	8.87E-05	6.80E-02	1.30E-03	6.90E-01	1.29E-04	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.82E-06	0.00E+00	0.00E+00	2.33E-04	0.00E+00	3.57E-07	0.00E+00	4.14E-06	0.00E+00	2.46E-04	6.80E-02	3.61E-03	6.90E-01	3.56E-04	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	3.01E-04	0.00E+00	7.88E-08	0.00E+00	1.71E-05	0.00E+00	3.28E-04	6.80E-02	4.82E-03	6.90E-01	4.75E-04	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	4.81E-05	0.00E+00	1.26E-05	0.00E+00	1.74E-06	0.00E+00	6.43E-05	6.80E-02	9.46E-04	6.90E-01	9.32E-05	0.00%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.92E-01	0.00E+00	0.00E+00	4.20E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E+00	5.10E+00	8.80E-01	1.98E+01	2.27E-01	0.39%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	2.94E-03	0.00E+00	4.94E-03	0.00E+00	1.12E-04	0.00E+00	8.10E-03	4.00E+00	2.03E-03	4.00E+01	2.03E-04	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	5.35E-04	0.00E+00	0.00E+00	7.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-03	1.83E+01	4.64E-04	1.83E+02	4.65E-05	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	3.82E-04	7.13E-04	0.00E+00	7.32E-04	7.45E-03	0.00E+00	9.65E-03	0.00E+00	5.10E-04	0.00E+00	1.94E-02	1.00E+00	1.94E-02	1.00E+01	1.94E-03	0.01%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.08E-07	0.00E+00	0.00E+00	1.18E-05	0.00E+00	4.86E-08	0.00E+00	3.80E-07	0.00E+00	1.27E-05	4.58E+00	2.77E-06	9.16E+00	1.38E-06	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.56E-02	0.00E+00	0.00E+00	1.55E-03	0.00E+00	1.34E-02	0.00E+00	2.31E-03	0.00E+00	4.29E-02	2.74E+03	1.57E-05	2.74E+04	1.57E-06	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	2.21E-05	0.00E+00	1.90E-04	0.00E+00	3.28E-05	0.00E+00	6.09E-04	3.28E+03	1.86E-04	1.31E+01	4.64E-05	0.00%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.00E-07	0.00E+00	0.00E+00	1.45E-05	0.00E+00	5.95E-08	0.00E+00	4.66E-07	0.00E+00	1.55E-05	4.58E+00	3.39E-06	9.16E+00	1.70E-06	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	2.07E-02	1.54E-02	0.00E+00	1.03E-01	7.14E-02	0.00E+00	1.22E-01	0.00E+00	1.47E-03	0.00E+00	3.34E-01	1.17E+01	2.86E-02	1.51E+01	2.21E-02	0.01%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.05E-07	0.00E+00	0.00E+00	1.14E-05	0.00E+00	1.24E-07	0.00E+00	3.78E-07	0.00E+00	1.23E-05	2.00E-02	6.15E-04	2.00E-01	6.15E-05	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.61E-07	0.00E+00	0.00E+00	1.58E-05	0.00E+00	1.96E-07	0.00E+00	7.24E-07	0.00E+00	1.72E-05	9.20E-02	1.87E-04	9.20E-01	1.87E-05	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.55E-07	0.00E+00	0.00E+00	1.30E-05	0.00E+00	9.23E-08	0.00E+00	4.24E-07	0.00E+00	1.40E-05	8.00E-02	1.75E-04	2.90E-01	4.82E-05	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	2.15E+01	0.00E+00	0.00E+00	2.47E+00	0.00E+00	1.10E+00	0.00E+00	4.01E-02	0.00E+00	2.51E+01	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.65E-04	0.00E+00	3.12E-01	2.25E-03	NA	1.84E-02	NA	1.23E-01	0.00E+00	3.86E-03	0.00E+00	4.59E-01	8.00E+00	5.74E-02	8.00E+01	5.74E-03	0.03%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	8.17E-01	1.96E+00	0.00E+00	1.09E+00	1.41E+00	0.00E+00	1.97E+00	0.00E+00	1.58E-02	0.00E+00	7.27E+00	8.80E+01	8.26E-02	2.84E+02	2.56E-02	0.04%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	3.11E-03	NA	2.29E-03	0.00E+00	1.24E-05	0.00E+00	5.54E-03	1.00E+00	5.54E-03	3.00E+00	1.85E-03	0.00%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	1.36E-04	0.00E+00	0.00E+00	3.26E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	4.63E-04	1.50E-02	3.08E-02	2.50E-02	1.85E-02	0.01%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.80E-07	0.00E+00	0.00E+00	2.03E-05	0.00E+00	2.99E-08	0.00E+00	6.34E-07	0.00E+00	2.17E-05	7.00E-02	3.09E-04	7.00E-01	3.09E-05	0.00%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	2.03E-02	1.50E-02	0.00E+00	3.15E-02	5.07E-02	0.00E+00	1.31E-02	0.00E+00	1.39E-03	0.00E+00	1.32E-01	4.00E+01	3.30E-03	8.00E+01	1.65E-03	0.00%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.68E-03	1.40E-03	0.00E+00	2.45E-02	1.88E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-02	5.07E+02	6.01E-05	1.13E+03	2.70E-05	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.02E-07	0.00E+00	0.00E+00	1.13E-05	0.00E+00	1.35E-07	0.00E+00	3.75E-07	0.00E+00	1.22E-05	4.58E+00	2.67E-06	9.16E+00	1.34E-06	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	3.70E-05	0.00E+00	4.64E-07	0.00E+00	1.24E-06	0.00E+00	4.00E-05	2.40E-01	1.67E-04	2.40E+00	1.67E-05	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-02	0.00E+00	3.17E-04	0.00E+00	5.44E-04	0.00E+00	1.68E-02	2.40E-01	7.01E-02	2.40E+00	7.01E-03	0.03%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	1.74E-04	NA	7.40E-02	0.00E+00	2.14E-05	0.00E+00	7.44E-02	8.50E+00	8.75E-03	2.55E+01	2.92E-03	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	1.49E-03	8.81E-04	0.00E+00	2.14E-02	3.40E-03	0.00E+00	5.16E-03	0.00E+00	1.42E-04	0.00E+00	3.25E-02	2.00E-01	1.62E-01	3.30E-01	9.84E-02	0.07%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.06E-02	0.00E+00	0.00E+00	8.50E-03	0.00E+00	8.21E-02	0.00E+00	3.61E-03	0.00E+00	1.25E-01	2.63E+02	4.75E-04	7.89E+02	1.58E-04	0.00%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.37E-01	6.09E-02	3.07E-01	2.17E+00	8.17E-02	2.94E-01	0.00E+00	8.22E-01	0.00E+00	3.61E-02	0.00E+00	4.01E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.96E-07	0.00E+00	0.00E+00	1.73E-05	0.00E+00	7.09E-08	0.00E+00	5.55E-07	0.00E+00	1.85E-05	4.58E+00	4.04E-06	9.16E+00	2.02E-06	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	6.13E-02	3.41E-02	0.00E+00	8.21E-02	4.57E-03	0.00E+00	1.57E-03	0.00E+00	1.99E-04	0.00E+00	1.84E-01	2.10E-01	8.75E-01	2.10E+00	8.75E-02	0.39%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	1.01E-01	1.13E-01	0.00E+00	6.26E-01	1.73E-01	0.00E+00	1.28E+00	0.00E+00	2.22E-02	0.00E+00	2.31E+00	1.60E+02	1.45E-02	3.20E+02	7.23E-03	0.01%

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Table O-135
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	2.89E-09	1.63E-09	0.00E+00	6.78E-07	3.89E-07	0.00E+00	3.19E-10	0.00E+00	3.56E-10	0.00E+00	1.07E-06	1.00E-06	1.07E+00	1.00E-05	1.07E-01	0.61%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.80E-07	0.00E+00	0.00E+00	9.65E-05	0.00E+00	1.99E-06	0.00E+00	2.39E-06	0.00E+00	1.01E-04	8.00E-01	1.27E-04	4.00E+00	2.54E-05	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	1.78E-06	0.00E+00	0.00E+00	2.98E-04	0.00E+00	4.73E-05	0.00E+00	6.32E-06	0.00E+00	3.53E-04	8.00E-01	4.41E-04	4.00E+00	8.83E-05	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	9.23E-07	0.00E+00	0.00E+00	1.59E-04	0.00E+00	3.17E-06	0.00E+00	5.48E-06	0.00E+00	1.69E-04	8.00E-01	2.11E-04	4.00E+00	4.22E-05	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.75E-08	0.00E+00	0.00E+00	1.33E-05	0.00E+00	2.25E-08	0.00E+00	3.19E-07	0.00E+00	1.38E-05	2.00E-01	6.88E-05	1.00E+00	1.38E-05	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.56E-07	0.00E+00	0.00E+00	2.63E-05	0.00E+00	2.69E-07	0.00E+00	6.41E-07	0.00E+00	2.74E-05	4.58E+00	5.98E-06	9.16E+00	2.99E-06	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	6.75E+00	0.00E+00	0.00E+00	3.26E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E+02	1.93E+00	1.72E+02	1.93E+01	1.72E+01	97.88%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-03	0.00E+00	7.91E-04	0.00E+00	1.57E-04	0.00E+00	4.17E-03	1.25E-01	3.34E-02	1.25E+00	3.34E-03	0.02%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	2.15E-04	0.00E+00	8.88E-06	0.00E+00	5.23E-06	0.00E+00	2.31E-04	6.85E-02	3.37E-03	6.85E-01	3.37E-04	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.88E-07	0.00E+00	0.00E+00	9.96E-05	0.00E+00	2.55E-07	0.00E+00	2.42E-06	0.00E+00	1.03E-04	6.80E-02	1.51E-03	6.90E-01	1.49E-04	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.70E-06	0.00E+00	0.00E+00	2.96E-04	0.00E+00	6.45E-07	0.00E+00	6.46E-06	0.00E+00	3.04E-04	6.80E-02	4.48E-03	6.90E-01	4.41E-04	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	5.65E-04	0.00E+00	6.03E-07	0.00E+00	2.12E-05	0.00E+00	5.90E-04	6.80E-02	8.68E-03	6.90E-01	8.55E-04	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-07	0.00E+00	0.00E+00	5.28E-05	0.00E+00	7.94E-06	0.00E+00	1.45E-06	0.00E+00	6.26E-05	6.80E-02	9.20E-04	6.90E-01	9.07E-05	0.00%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	6.64E-02	0.00E+00	0.00E+00	3.20E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E+00	5.10E+00	6.40E-01	1.98E+01	1.65E-01	0.36%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	4.00E-03	0.00E+00	3.88E-03	0.00E+00	1.16E-04	0.00E+00	8.03E-03	4.00E+00	2.01E-03	4.00E+01	2.01E-04	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-02	1.83E+01	1.63E-03	1.83E+02	1.63E-04	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	8.86E-05	1.59E-04	0.00E+00	7.59E-03	4.78E-03	0.00E+00	6.49E-03	0.00E+00	5.24E-04	0.00E+00	1.96E-02	1.00E+00	1.96E-02	1.00E+00	1.96E-03	0.01%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.77E-08	0.00E+00	0.00E+00	1.31E-05	0.00E+00	1.34E-07	0.00E+00	3.20E-07	0.00E+00	1.36E-05	4.58E+00	2.98E-06	9.16E+00	1.49E-06	0.00%
Chromium (trivalent)	0.00E+00	mg/L	1.21E+01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	5.00E-03	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.03E-01	0.00E+00	5.95E-03	0.00E+00	1.15E-01	2.74E+03	4.20E-05	2.74E+04	4.20E-06	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	1.71E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.10E-05	0.00E+00	0.00E+00	1.45E-05	0.00E+00	1.46E-03	0.00E+00	8.45E-05	0.00E+00	1.63E-03	3.28E+00	4.97E-04	1.31E+01	1.24E-04	0.00%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	1.73E-05	0.00E+00	1.77E-07	0.00E+00	4.22E-07	0.00E+00	1.80E-05	4.58E+00	3.93E-06	9.16E+00	1.97E-06	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	4.44E-03	3.08E-03	0.00E+00	2.50E-01	4.34E-02	0.00E+00	7.58E-02	0.00E+00	1.64E-03	0.00E+00	3.78E-01	1.17E+01	3.23E-02	1.51E+01	2.50E-02	0.02%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.69E-08	0.00E+00	0.00E+00	1.26E-05	0.00E+00	5.40E-06	0.00E+00	3.16E-07	0.00E+00	1.84E-05	2.00E-02	9.19E-04	2.00E-01	9.19E-05	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	1.87E-05	0.00E+00	1.87E-07	0.00E+00	4.96E-07	0.00E+00	1.95E-05	9.20E-02	2.11E-04	9.20E-01	2.11E-05	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.13E-08	0.00E+00	0.00E+00	1.52E-05	0.00E+00	7.39E-08	0.00E+00	3.76E-07	0.00E+00	1.57E-05	8.00E-02	1.96E-04	2.90E-01	5.42E-05	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	4.16E+00	0.00E+00	0.00E+00	3.47E+00	0.00E+00	7.12E-01	0.00E+00	3.07E-02	0.00E+00	8.37E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.47E-04	0.00E+00	7.38E-02	6.66E-03	NA	1.46E-02	NA	8.55E-02	0.00E+00	3.50E-03	0.00E+00	1.84E-01	8.00E+00	2.30E-02	8.00E+01	2.30E-03	0.01%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	2.02E-01	3.87E-01	0.00E+00	4.55E+00	9.17E-01	0.00E+00	1.66E+00	0.00E+00	1.32E-02	0.00E+00	7.73E+00	8.80E+01	8.78E-02	2.84E+02	2.72E-02	0.05%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	1.89E-03	NA	1.42E-03	0.00E+00	9.07E-06	0.00E+00	3.35E-03	1.00E+00	3.35E-03	3.00E+00	1.12E-03	0.00%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	3.32E-05	0.00E+00	0.00E+00	2.67E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.00E-04	1.50E-02	2.00E-02	2.50E-02	1.20E-02	0.01%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E-07	0.00E+00	0.00E+00	2.46E-05	0.00E+00	2.08E-07	0.00E+00	5.82E-07	0.00E+00	2.55E-05	7.00E-02	3.65E-04	7.00E-01	3.65E-05	0.00%
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	4.57E-03	2.94E-03	0.00E+00	1.14E-01	1.49E-01	0.00E+00	8.39E-03	0.00E+00	1.06E-03	0.00E+00	2.80E-01	4.00E+01	6.99E-03	8.00E+01	3.50E-03	0.00%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.41E-03	4.09E-04	0.00E+00	1.42E-01	9.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-01	5.07E+02	3.14E-04	1.13E+03	1.41E-04	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	8.22E-08	0.00E+00	3.00E-07	0.00E+00	1.24E-05	4.58E+00	2.70E-06	9.16E+00	1.35E-06	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.66E-07	0.00E+00	0.00E+00	5.95E-05	0.00E+00	5.25E-07	0.00E+00	1.51E-06	0.00E+00	6.19E-05	2.40E-01	2.58E-04	2.40E+00	2.58E-05	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-02	0.00E+00	5.29E-04	0.00E+00	7.20E-04	0.00E+00	2.91E-02	2.40E-01	1.21E-01	2.40E+00	1.21E-02	0.07%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	1.42E-03	NA	9.34E-02	0.00E+00	6.88E-05	0.00E+00	9.50E-02	8.50E+00	1.12E-02	2.55E+01	3.72E-03	0.01%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	3.62E-04	1.71E-04	0.00E+00	1.75E-02	2.16E-03	0.00E+00	3.40E-03	0.00E+00	1.19E-04	0.00E+00	2.37E-02	2.00E-01	1.18E-01	3.30E-01	7.17E-02	0.07%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	5.91E-03	0.00E+00	0.00E+00	1.76E-02	0.00E+00	8.87E-02	0.00E+00	3.51E-03	0.00E+00	1.16E-01	2.63E+02	4.40E-04	7.89E+02	1.47E-04	0.00%
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.12E-01	1.24E-02	9.53E-02	7.90E+00	2.80E-01	1.16E+00	0.00E+00	1.43E+00	0.00E+00	5.65E-02	0.00E+00	1.13E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.26E-07	0.00E+00	0.00E+00	2.12E-05	0.00E+00	2.17E-07	0.00E+00	5.17E-07	0.00E+00	2.21E-05	4.58E+00	4.82E-06	9.16E+00	2.41E-06	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	1.28E-02	6.35E-03	0.00E+00	2.87E-01	5.99E-03	0.00E+00	1.09E-03	0.00E+00	1.34E-04	0.00E+00	3.13E-01	2.10E-01	1.49E+00	2.10E+00	1.49E-01	0.85%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	2.13E-02	2.44E-02	0.00E+00	1.72E+00	1.25E-01	0.00E+00	8.44E-01	0.00E+00	3.93E-02	0.00E+00	2.77E+00	1.60E+02	1.73E-02	3.20E+02	8.67E-03	0.01%

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Table O-136
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	2.89E-09	1.32E-09	0.00E+00	1.45E-07	1.56E-07	0.00E+00	2.19E-10	0.00E+00	2.23E-10	0.00E+00	3.05E-07	1.00E-06	3.05E-01	1.00E-05	3.05E-02	0.24%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.32E-07	0.00E+00	0.00E+00	3.18E-05	0.00E+00	3.98E-07	0.00E+00	1.04E-06	0.00E+00	3.36E-05	8.00E-01	4.19E-05	4.00E+00	8.39E-06	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.28E-06	0.00E+00	0.00E+00	1.24E-04	0.00E+00	7.48E-06	0.00E+00	4.32E-06	0.00E+00	1.37E-04	8.00E-01	1.71E-04	4.00E+00	3.42E-05	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	4.42E-07	0.00E+00	0.00E+00	4.40E-05	0.00E+00	5.31E-07	0.00E+00	1.40E-06	0.00E+00	4.64E-05	8.00E-01	5.79E-05	4.00E+00	1.16E-05	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.29E-08	0.00E+00	0.00E+00	7.24E-06	0.00E+00	1.52E-08	0.00E+00	2.28E-07	0.00E+00	7.55E-06	2.00E-01	3.78E-05	1.00E+00	7.55E-06	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.31E-07	0.00E+00	0.00E+00	1.27E-05	0.00E+00	5.22E-08	0.00E+00	4.09E-07	0.00E+00	1.33E-05	4.58E+00	2.90E-06	9.16E+00	1.45E-06	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	4.90E+00	0.00E+00	0.00E+00	2.36E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+02	1.93E+00	1.25E+02	1.93E+01	1.25E+01	98.90%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-04	0.00E+00	3.35E-04	0.00E+00	8.34E-05	0.00E+00	1.10E-03	1.25E-01	8.77E-03	1.25E+00	8.77E-04	0.01%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.06E-06	0.00E+00	0.00E+00	1.03E-04	0.00E+00	3.80E-07	0.00E+00	3.31E-06	0.00E+00	1.08E-04	6.85E-02	1.58E-03	6.85E-01	1.58E-04	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.01E-07	0.00E+00	0.00E+00	4.89E-05	0.00E+00	1.80E-07	0.00E+00	1.57E-06	0.00E+00	5.11E-05	6.80E-02	7.52E-04	6.90E-01	7.41E-05	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	1.38E-04	0.00E+00	2.11E-07	0.00E+00	2.44E-06	0.00E+00	1.42E-04	6.80E-02	2.08E-03	6.90E-01	2.05E-04	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.69E-06	0.00E+00	0.00E+00	1.78E-04	0.00E+00	4.64E-08	0.00E+00	1.01E-05	0.00E+00	1.89E-04	6.80E-02	2.79E-03	6.90E-01	2.75E-04	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.28E-07	0.00E+00	0.00E+00	2.84E-05	0.00E+00	7.40E-06	0.00E+00	1.03E-06	0.00E+00	3.71E-05	6.80E-02	5.46E-04	6.90E-01	5.38E-05	0.00%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	5.13E-02	0.00E+00	0.00E+00	2.47E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E+00	5.10E+00	4.95E-01	1.98E+01	1.28E-01	0.39%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	1.73E-03	0.00E+00	2.91E-03	0.00E+00	6.61E-05	0.00E+00	4.73E-03	4.00E+00	1.18E-03	4.00E+01	1.18E-04	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	9.40E-05	0.00E+00	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	1.83E+01	2.62E-04	1.83E+02	2.62E-05	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	6.71E-05	1.25E-04	0.00E+00	4.31E-04	4.39E-03	0.00E+00	5.69E-03	0.00E+00	3.01E-04	0.00E+00	1.10E-02	1.00E+00	1.10E-02	1.00E+01	1.10E-03	0.01%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.17E-08	0.00E+00	0.00E+00	6.98E-06	0.00E+00	2.86E-08	0.00E+00	2.24E-07	0.00E+00	7.30E-06	4.58E+00	1.59E-06	9.16E+00	7.97E-07	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	4.50E-03	0.00E+00	0.00E+00	9.16E-04	0.00E+00	7.91E-03	0.00E+00	1.36E-03	0.00E+00	1.47E-02	2.74E+03	5.37E-06	2.74E+04	5.37E-07	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	1.30E-05	0.00E+00	1.12E-04	0.00E+00	1.93E-05	0.00E+00	2.09E-04	3.28E+00	6.36E-05	1.31E+01	1.59E-05	0.00%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.78E-08	0.00E+00	0.00E+00	8.55E-06	0.00E+00	3.51E-08	0.00E+00	2.75E-07	0.00E+00	8.95E-06	4.58E+00	1.95E-06	9.16E+00	9.77E-07	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	3.63E-03	2.70E-03	0.00E+00	6.06E-02	4.21E-02	0.00E+00	7.21E-02	0.00E+00	8.66E-04	0.00E+00	1.82E-01	1.17E+01	1.56E-02	1.51E+01	1.20E-02	0.01%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.12E-08	0.00E+00	0.00E+00	6.72E-06	0.00E+00	7.32E-08	0.00E+00	2.23E-07	0.00E+00	7.08E-06	2.00E-02	3.54E-04	2.00E-01	3.54E-05	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	9.85E-08	0.00E+00	0.00E+00	9.29E-06	0.00E+00	1.16E-07	0.00E+00	4.27E-07	0.00E+00	9.93E-06	9.20E-02	1.08E-04	9.20E-01	1.08E-05	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.00E-08	0.00E+00	0.00E+00	7.67E-06	0.00E+00	5.44E-08	0.00E+00	2.50E-07	0.00E+00	8.05E-06	8.00E-02	1.01E-04	2.90E-01	2.78E-05	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	3.77E+00	0.00E+00	0.00E+00	1.45E+00	0.00E+00	6.46E-01	0.00E+00	2.37E-02	0.00E+00	5.89E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.65E-04	0.00E+00	5.48E-02	1.33E-03	NA	1.08E-02	NA	7.24E-02	0.00E+00	2.28E-03	0.00E+00	1.42E-01	8.00E+00	1.77E-02	8.00E+01	1.77E-03	0.01%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	1.43E-01	3.44E-01	0.00E+00	6.45E-01	8.32E-01	0.00E+00	1.16E+00	0.00E+00	9.31E-03	0.00E+00	3.14E+00	8.80E+01	3.57E-02	2.84E+02	1.10E-02	0.03%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	1.83E-03	NA	1.35E-03	0.00E+00	7.31E-06	0.00E+00	3.21E-03	1.00E+00	3.21E-03	3.00E+00	1.07E-03	0.00%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	2.39E-05	0.00E+00	0.00E+00	1.92E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.16E-04	1.50E-02	1.44E-02	2.50E-02	8.66E-03	0.01%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.19E-07	0.00E+00	0.00E+00	1.20E-05	0.00E+00	1.76E-08	0.00E+00	3.74E-07	0.00E+00	1.25E-05	7.00E-02	1.78E-04	7.00E-01	1.78E-05	0.00%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	3.57E-03	2.63E-03	0.00E+00	1.86E-02	2.99E-02	0.00E+00	7.72E-03	0.00E+00	8.19E-04	0.00E+00	6.32E-02	4.00E+01	1.58E-03	8.00E+01	7.90E-04	0.00%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.68E-03	2.46E-04	0.00E+00	1.45E-02	1.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-02	5.07E+02	3.65E-05	1.13E+03	1.64E-05	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.07E-08	0.00E+00	0.00E+00	6.67E-06	0.00E+00	7.98E-08	0.00E+00	2.21E-07	0.00E+00	7.04E-06	4.58E+00	1.54E-06	9.16E+00	7.69E-07	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.33E-07	0.00E+00	0.00E+00	2.18E-05	0.00E+00	2.73E-07	0.00E+00	7.28E-07	0.00E+00	2.31E-05	2.40E-01	9.61E-05	2.40E+00	9.61E-06	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-03	0.00E+00	1.87E-04	0.00E+00	3.21E-04	0.00E+00	9.91E-03	2.40E-01	4.13E-02	2.40E+00	4.13E-03	0.03%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	1.03E-04	NA	4.36E-02	0.00E+00	1.26E-05	0.00E+00	4.38E-02	8.50E+00	5.15E-03	2.55E+01	1.72E-03	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	2.62E-04	1.55E-04	0.00E+00	1.26E-02	2.01E-03	0.00E+00	3.04E-03	0.00E+00	8.34E-05	0.00E+00	1.82E-02	2.00E-01	9.09E-02	3.30E-01	5.51E-02	0.07%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	5.38E-03	0.00E+00	0.00E+00	5.01E-03	0.00E+00	4.84E-02	0.00E+00	2.13E-03	0.00E+00	6.09E-02	2.63E+02	2.32E-04	7.89E+02	7.72E-05	0.00%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.37E-01	1.07E-02	5.38E-02	1.28E+00	4.81E-02	1.73E-01	0.00E+00	4.85E-01	0.00E+00	2.13E-02	0.00E+00	2.31E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.05E-07	0.00E+00	0.00E+00	1.02E-05	0.00E+00	4.18E-08	0.00E+00	3.28E-07	0.00E+00	1.07E-05	4.58E+00	2.33E-06	9.16E+00	1.16E-06	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	1.08E-02	5.99E-03	0.00E+00	4.84E-02	2.70E-03	0.00E+00	9.25E-04	0.00E+00	1.17E-04	0.00E+00	6.89E-02	2.10E-01	3.28E-01	2.10E+00	3.28E-02	0.26%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	1.78E-02	1.99E-02	0.00E+00	3.69E-01	1.02E-01	0.00E+00	7.53E-01	0.00E+00	1.31E-02	0.00E+00	1.27E+00	1.60E+02	7.97E-03	3.20E+02	3.98E-03	0.01%

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Table O-137
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the Longhorn Army Ammunition Plant
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF
							-----	-----	-----	-----	-----	Unitless	-----	-----	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	1.24E+00	9.40E-01	9.40E-01	9.22E-01	9.22E-01
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	4.60E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01		
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	2.30E+01	mg/kg	1.00E+00	1.50E+03	NA	1.81E-02	NA	6.65E-02	6.65E-02	1.33E-02	1.33E-02
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA		
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.72E-02	6.72E-02	1.01E-01	1.01E-01
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03							
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	1.10E+00	4.62E-01	4.62E-01	1.95E-01	1.95E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01		
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00						
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.03E-01	8.03E-01	4.51E-01	4.51E-01

Chemical	EED Surface Water (mg/kg-d)	EED Sediment (mg/kg-d)	EED Soil (mg/kg-d)	EED Fish (mg/kg-d)	EED Aq. Invert. (mg/kg-d)	EED Terr. Invert. (mg/kg-d)	EED Aq. Plants (mg/kg-d)	EED Terr. Plants (mg/kg-d)	EED Plant Roots (mg/kg-d)	EED Mammals (mg/kg-d)	EED Birds (mg/kg-d)	Total EED (mg/kg-d)	NOAEL (mg/kg-d)	EEQ N	LOAEL (mg/kg-d)	EEQ L	Percent Contribution to EEQ N
1,3,5-Trinitrobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	0.00E+00	5.52E-08	0.00E+00	0.00E+00	9.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	1.00E-06	9.49E+00	1.00E-05	9.49E-01	56.32%
2,4,6-Trinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	2.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	8.00E-01	2.98E-03	4.00E+00	5.96E-04	0.02%
4,4'-DDE	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	6.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-03	8.00E-01	8.76E-03	4.00E+00	1.75E-03	0.05%
4,4'-DDT	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-03	8.00E-01	3.97E-03	4.00E+00	7.94E-04	0.02%
Aldrin	0.00E+00	0.00E+00	2.84E-06	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-04	2.00E-01	1.77E-03	1.00E+00	3.54E-04	0.01%
alpha-Chlordane	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-04	4.58E+00	1.37E-04	9.16E+00	6.86E-05	0.00%
Aluminum	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-02	1.25E-01	5.56E-01	1.25E+00	5.56E-02	3.30%
Aroclor 1242	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03	6.85E-02	7.59E-02	6.85E-01	7.59E-03	0.45%
Aroclor 1248	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03	6.80E-02	3.45E-02	6.80E-01	3.45E-03	0.21%
Aroclor 1254	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	7.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-03	6.80E-02	1.04E-01	6.80E-01	1.04E-02	0.62%
Aroclor 1260	0.00E+00	0.00E+00	8.69E-05	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	6.80E-02	1.69E-01	6.80E-01	1.69E-02	1.00%
Aroclor 1268	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	6.80E-02	2.00E-02	6.80E-01	2.00E-03	0.12%
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	3.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-02	4.00E+00	9.00E-03	4.00E+01	9.00E-04	0.05%
bis(2-ethylhexyl)phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	0.00E+00	5.52E-03	0.00E+00	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-01	1.00E+00	1.23E-01	1.00E+01	1.23E-02	0.73%
Chlordane	0.00E+00	0.00E+00	2.70E-06	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	4.58E+00	7.20E-05	9.16E+00	3.60E-05	0.00%
Chromium (trivalent)	0.00E+00	0.00E+00	1.60E-01	0.00E+00	0.00E+00	2.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-01	2.74E+03	6.70E-05	2.74E+04	6.70E-06	0.00%
Chromium (hexavalent)	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-03	3.28E+00	7.94E-04	1.31E+01	1.98E-04	0.00%
cis-Nonachlor	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	4.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-04	4.58E+00	9.40E-05	9.16E+00	4.70E-05	0.00%
Copper	0.00E+00	0.00E+00	1.03E-01	0.00E+00	0.00E+00	1.05E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00	1.17E+01	9.84E-02	1.51E+01	7.61E-02	0.58%
Dieldrin	0.00E+00	0.00E+00	2.63E-06	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	2.00E-02	1.56E-02	2.00E-01	1.56E-03	0.09%
Endrin	0.00E+00	0.00E+00	3.87E-06	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	9.20E-02	4.98E-03	9.20E-01	4.98E-04	0.03%
gamma-Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	0.00E+00	3.30E-06	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-04	8.00E-02	4.96E-03	2.90E-01	1.37E-03	0.03%
HMX	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	0.00E+00	1.40E+02	0.00E+00	0.00E+00	8.43E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E+02	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	6.60E-04	0.00E+00	3.22E-01	0.00E+00	NA	4.49E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-01	8.00E+00	4.59E-02	8.00E+01	4.59E-03	0.27%
Manganese	0.00E+00	0.00E+00	1.34E+01	0.00E+00	0.00E+00	2.27E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E+01	8.80E+01	4.11E-01	2.84E+02	1.27E-01	2.44%
Mercury (inorganic)	0.00E+00	0.00E+00	7.94E-04	0.00E+00	0.00E+00	4.51E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	1.32E+01	3.48E-03	3.96E+01	1.16E-03	0.02%
Mercury (methyl)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00	0.00%
Mirex	0.00E+00	0.00E+00	4.79E-06	0.00E+00	0.00E+00	5.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	7.00E-02	8.61E-03	7.00E-01	8.61E-04	0.05%
Nickel	0.00E+00	0.00E+00	9.54E-02	0.00E+00	0.00E+00	3.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E+00	4.00E+01	8.92E-02	8.00E+01	4.46E-02	0.53%
Nitrate	1.98E-02	0.00E+00	2.60E-02	0.00E+00	0.00E+00	2.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-01	5.07E+02	5.41E-04	1.13E+03	2.43E-04	0.00%
Nitrate/Nitrite	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	0.00E+00	2.56E-06	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	4.58E+00	6.64E-05	9.16E+00	3.32E-05	0.00%
p-Isopropyltoluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	2.40E-01	6.19E-03	2.40E+00	6.19E-04	0.04%
Pentachlorophenol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-01	2.40E-01	3.54E+00	2.40E+00	3.54E-01	20.99%
Perchlorate	0.00E+00	0.00E+00	1.26E-03	0.00E+00	0.00E+00	1.10E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	8.50E+00	1.45E-03	2.55E+01	4.82E-04	0.01%
Selenium	0.00E+00	0.00E+00	5.55E-03	0.00E+00	0.00E+00	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-02	2.00E-01	2.82E-01	3.30E-01	1.71E-01	1.67%
Silver	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	0.00E+00	1.99E-01	0.00E+00	0.00E+00	4.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-01	2.63E+02	2.38E-03	7.89E+02	7.92E-04	0.01%
Sulfate	1.10E+00	0.00E+00	2.88E+01	0.00E+00	0.00E+00	2.52E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E+02	NA	NA	NA	NA	NA
Thallium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	5.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	4.58E+00	1.18E-04	9.16E+00	5.89E-05	0.00%
Vanadium	0.00E+00	0.00E+00	2.15E-01	0.00E+00	0.00E+00	1.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-01	2.10E-01	1.71E+00	2.10E+00	1.71E-01	10.17%
Zinc	0.00E+00	0.00E+00	8.33E-01	0.00E+00	0.00E+00	3.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E+00	1.60E+02	2.44E-02	3.20E+02	1.22E-02	0.15%

	EEQ N	EEQ L	Percent
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.9E-04	2.4E-04	0.00%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.6E-02	3.1E-03	0.1%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.0E-01	4.0E-02	2.4%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00	0.0%
Aldrin/Dieldrin/Endrin EEQ:	2.2E-02	2.4E-03	0.1%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Factor	Value	Units
Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	1	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0.0002094	kg/d
Sediment ingestion rate =	0	kg/d
Food ingestion rate =	0.001611	kg/d
Body weight =	0.015	kg
Home range =	0.0741313	acres
Water intake rate =	0.0033	L/d
Site Area =	3217	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-138
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the Longhorn Army Ammunition Plant
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	0.00E+00	4.44E-08	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	1.00E-06	3.81E+00	1.00E-05	3.81E-01	48.84%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-04	8.00E-01	1.01E-03	4.00E+00	2.01E-04	0.01%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	8.00E-01	3.78E-03	4.00E+00	7.56E-04	0.05%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	8.00E-01	1.39E-03	4.00E+00	2.78E-04	0.02%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.53E-06	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	2.00E-01	9.13E-04	1.00E+00	1.83E-04	0.01%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.35E-06	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	4.58E+00	6.73E-05	9.16E+00	3.36E-05	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	1.25E-01	1.32E-01	1.25E+00	1.32E-02	1.69%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-03	6.85E-02	3.67E-02	6.85E-01	3.67E-03	0.47%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	6.80E-02	1.71E-02	6.80E-01	1.71E-03	0.22%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.57E-05	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	6.80E-02	4.90E-02	6.80E-01	4.90E-03	0.63%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.64E-05	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03	6.80E-02	6.35E-02	6.80E-01	6.35E-03	0.81%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	6.80E-02	1.09E-02	6.80E-01	1.09E-03	0.14%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	1.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-02	4.00E+00	4.58E-03	4.00E+01	4.58E-04	0.06%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	1.40E+00	1.03E+00	1.03E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	1.00E+00	1.13E-01	1.00E+01	1.13E-02	1.45%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.01E-06	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	4.58E+00	4.66E-05	9.16E+00	2.33E-05	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.50E-01	0.00E+00	0.00E+00	2.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-01	2.74E+03	6.27E-05	2.74E+04	6.27E-06	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-03	3.28E+00	7.43E-04	1.31E+01	1.85E-04	0.01%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	4.58E+00	4.74E-05	9.16E+00	2.37E-05	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	5.20E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	0.00E+00	0.00E+00	9.05E-02	0.00E+00	0.00E+00	1.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	1.17E+01	9.47E-02	1.51E+01	7.32E-02	1.21%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	2.00E-02	8.45E-03	2.00E-01	8.45E-04	0.11%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.69E-06	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	9.20E-02	2.76E-03	9.20E-01	2.76E-04	0.04%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-06	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	8.00E-02	2.49E-03	2.90E-01	6.86E-04	0.03%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	1.27E+02	0.00E+00	0.00E+00	3.52E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E+02	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	2.03E+01	mg/kg	1.00E+00	4.48E+02	NA	1.81E-02	NA	7.03E-02	7.03E-02	1.16E-02	1.16E-02	4.40E-04	0.00E+00	2.84E-01	0.00E+00	NA	3.95E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-01	8.00E+00	4.05E-02	8.00E+01	4.05E-03	0.52%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	0.00E+00	1.16E+01	0.00E+00	0.00E+00	2.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E+01	8.80E+01	3.61E-01	2.84E+02	1.12E-01	4.62%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	7.08E-04	0.00E+00	0.00E+00	4.34E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-02	1.32E+01	3.34E-03	3.96E+01	1.11E-03	0.04%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.01E-06	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	7.00E-02	4.18E-03	7.00E-01	4.18E-04	0.05%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.64E-02	0.00E+00	0.00E+00	7.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-01	4.00E+01	1.98E-02	8.00E+01	9.88E-03	0.25%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.15E-03	0.00E+00	1.57E-02	0.00E+00	0.00E+00	3.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-02	5.07E+02	1.17E-04	1.13E+03	5.24E-05	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	4.58E+00	3.58E-05	9.16E+00	1.79E-05	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.78E-06	0.00E+00	0.00E+00	5.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-04	2.40E-01	2.21E-03	2.40E+00	2.21E-04	0.03%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-01	2.40E-01	1.46E+00	2.40E+00	1.46E-01	18.66%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	1.60E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-03	8.50E+00	2.70E-04	2.55E+01	9.00E-05	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.26E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	5.17E-03	0.00E+00	0.00E+00	4.83E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-02	2.00E-01	2.67E-01	3.30E-01	1.62E-01	3.43%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.81E-01	0.00E+00	0.00E+00	1.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	2.63E+02	1.15E-03	7.89E+02	3.84E-04	0.01%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.33E-01	0.00E+00	1.92E+01	0.00E+00	0.00E+00	4.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	4.58E+00	5.70E-05	9.16E+00	2.85E-05	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	2.02E-01	0.00E+00	0.00E+00	6.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-01	2.10E-01	1.27E+00	2.10E+00	1.27E-01	16.32%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	6.69E-01	0.00E+00	0.00E+00	2.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E+00	1.60E+02	1.96E-02	3.20E+02	9.82E-03	0.25%

**Nitrotoluenes (2,4-DNT

Table O-139
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	0.00E+00	3.74E-09	0.00E+00	0.00E+00	8.90E-08	0.00E+00	7.28E-11	0.00E+00	5.69E-09	1.22E-09	9.97E-08	1.00E-06	9.97E-02	1.00E-05	9.97E-03	24.03%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	2.23E-05	0.00E+00	4.60E-07	0.00E+00	3.86E-05	8.28E-06	7.10E-05	8.00E-01	8.87E-05	4.00E+00	1.77E-05	0.02%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.15E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.93E-06	0.00E+00	0.00E+00	6.55E-05	0.00E+00	1.04E-05	0.00E+00	9.74E-05	2.09E-05	1.98E-04	8.00E-01	2.48E-04	4.00E+00	4.96E-05	0.06%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.82E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.73E-06	0.00E+00	0.00E+00	2.97E-05	0.00E+00	5.91E-07	0.00E+00	7.17E-05	1.54E-05	1.19E-04	8.00E-01	1.49E-04	4.00E+00	2.98E-05	0.04%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	3.32E-06	0.00E+00	5.59E-09	0.00E+00	5.55E-06	1.19E-06	1.03E-05	2.00E-01	5.13E-05	1.00E+00	1.03E-05	0.01%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.68E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.49E-07	0.00E+00	0.00E+00	5.88E-06	0.00E+00	6.02E-08	0.00E+00	1.00E-05	2.15E-06	1.85E-05	4.58E+00	4.03E-06	9.16E+00	2.02E-06	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.68E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	1.61E-04	0.00E+00	2.23E-03	4.78E-04	3.53E-03	1.25E-01	2.82E-02	1.25E+00	2.82E-03	6.80%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	4.87E-05	0.00E+00	2.01E-06	0.00E+00	8.28E-05	1.77E-05	1.54E-04	6.85E-02	2.25E-03	6.85E-01	2.25E-04	0.54%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.37E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.30E-06	0.00E+00	0.00E+00	2.20E-05	0.00E+00	5.62E-08	0.00E+00	3.74E-05	8.01E-06	6.87E-05	6.80E-02	1.01E-03	6.90E-01	9.96E-05	0.24%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	3.83E-06	0.00E+00	0.00E+00	6.64E-05	0.00E+00	1.45E-07	0.00E+00	1.01E-04	2.17E-05	1.94E-04	6.80E-02	2.85E-03	6.90E-01	2.80E-04	0.69%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	6.22E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	1.08E-04	0.00E+00	1.15E-07	0.00E+00	2.82E-04	6.05E-05	4.56E-04	6.80E-02	6.71E-03	6.90E-01	6.61E-04	1.62%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.97E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.50E-07	0.00E+00	0.00E+00	1.27E-05	0.00E+00	1.91E-06	0.00E+00	2.44E-05	5.24E-06	4.52E-05	6.80E-02	6.64E-04	6.90E-01	6.55E-05	0.16%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.50E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	3.36E-04	0.00E+00	3.26E-04	0.00E+00	6.82E-04	1.46E-04	1.51E-03	4.00E+00	3.78E-04	4.00E+01	3.78E-05	0.09%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.95E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.76E+00	1.24E+00	9.40E-01	9.40E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	3.74E-04	0.00E+00	0.00E+00	1.10E-03	0.00E+00	1.51E-03	0.00E+00	8.62E-03	1.85E-03	1.35E-02	1.00E+00	1.35E-02	1.00E+01	1.35E-03	3.24%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	0.00E+00	3.08E-06	0.00E+00	3.16E-08	0.00E+00	5.26E-06	1.13E-06	9.69E-06	4.58E+00	2.12E-06	9.16E+00	1.06E-06	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	2.21E-04	0.00E+00	2.23E-02	0.00E+00	9.03E-02	1.94E-02	1.43E-01	2.74E+03	5.23E-05	2.74E+04	5.23E-06	0.01%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	3.13E-06	0.00E+00	3.17E-04	0.00E+00	1.28E-03	2.75E-04	2.03E-03	3.28E+00	6.19E-04	1.31E+01	1.55E-04	0.15%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.52E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.39E-07	0.00E+00	0.00E+00	4.03E-06	0.00E+00	4.12E-08	0.00E+00	6.87E-06	1.47E-06	1.27E-05	4.58E+00	2.76E-06	9.16E+00	1.38E-06	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.35E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.33E+00	4.60E-01	5.79E-01	5.79E-01	1.49E-01	1.49E-01	0.00E+00	0.00E+00	6.97E-03	0.00E+00	0.00E+00	9.90E-03	0.00E+00	1.72E-02	0.00E+00	2.60E-02	5.57E-03	6.57E-02	1.17E+01	5.61E-03	1.51E+01	4.34E-03	1.35%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.79E-07	0.00E+00	0.00E+00	2.92E-06	0.00E+00	1.25E-06	0.00E+00	5.14E-06	1.10E-06	1.06E-05	2.00E-02	5.29E-04	2.00E-01	5.29E-05	0.13%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.77E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	2.62E-07	0.00E+00	0.00E+00	4.29E-06	0.00E+00	4.29E-08	0.00E+00	7.97E-06	1.71E-06	1.43E-05	9.20E-02	1.55E-04	9.20E-01	1.55E-05	0.04%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.36E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.24E-07	0.00E+00	0.00E+00	3.71E-06	0.00E+00	1.81E-08	0.00E+00	6.43E-06	1.38E-06	1.18E-05	8.00E-02	1.47E-04	2.90E-01	4.06E-05	0.04%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.01E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	9.53E+00	0.00E+00	0.00E+00	7.95E-01	0.00E+00	1.63E-01	0.00E+00	4.92E-01	1.05E-01	1.11E+01	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	2.30E+01	mg/kg	1.00E+00	1.50E+03	NA	1.81E-02	NA	6.65E-02	6.65E-02	1.33E-02	1.33E-02	2.53E-04	0.00E+00	2.18E-02	0.00E+00	NA	4.23E-04	NA	6.21E-03	0.00E+00	7.25E-03	1.55E-03	3.75E-02	8.00E+00	4.69E-03	8.00E+01	4.69E-04	1.13%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.62E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.20E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	0.00E+00	9.12E-01	0.00E+00	0.00E+00	2.14E-01	0.00E+00	3.90E-01	0.00E+00	2.18E-01	4.67E-02	1.78E+00	8.80E+01	2.02E-02	2.84E+02	6.27E-03	4.87%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.69E-02	mg/kg	1.00E+00		7.50E-01	7.38E+00	NA	1.38E+00	1.38E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	4.25E-04	NA	3.17E-04	0.00E+00	1.38E-04	2.97E-05	9.64E-04	1.00E+00	9.64E-04	3.00E+00	3.21E-04	0.23%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.43E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.25E-07	0.00E+00	0.00E+00	5.64E-06	0.00E+00	4.78E-08	0.00E+00	9.35E-06	2.00E-06	1.74E-05	7.00E-02	2.48E-04	7.00E-01	2.48E-05	0.06%
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	6.83E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.72E-02	6.72E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	6.47E-03	0.00E+00	0.00E+00	3.27E-02	0.00E+00	1.86E-03	0.00E+00	1.63E-02	3.50E-03	6.09E-02	4.00E+01	1.52E-03	8.00E+01	7.61E-04	0.37%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	1.86E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.60E-03	0.00E+00	1.77E-03	0.00E+00	0.00E+00	2.15E-03	0.00E+00	2.64E-03	0.00E+00	7.32E-03	1.57E-03	2.31E-02	5.07E+02	4.55E-05	1.13E+03	2.04E-05	0.01%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.84E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.74E-07	0.00E+00	0.00E+00	2.84E-06	0.00E+00	1.96E-08	0.00E+00	5.00E-06	1.07E-06	9.11E-06	4.58E+00	1.99E-06	9.16E+00	9.94E-07	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	9.03E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.55E-07	0.00E+00	0.00E+00	1.39E-05	0.00E+00	1.22E-07	0.00E+00	2.46E-05	5.27E-06	4.47E-05	2.40E-01	1.86E-04	2.40E+00	1.86E-05	0.04%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	5.32E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-03	0.00E+00	1.52E-04	0.00E+00	1.45E-02	3.11E-03	2.58E-02	2.40E-01	1.07E-01	2.40E+00	1.07E-02	25.86%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.01E-02	mg/kg	1.00E+00			1.14E+00	NA	2.99E+01	2.99E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	1.04E-04	NA	1.09E-02	0.00E+00	3.54E-04	7.59E-05	1.16E-02	8.50E+00	1.36E-03	2.55E+01	4.53E-04	0.33%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	3.97E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.19E+00	1.10E+00	4.62E-01	4.62E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	3.76E-04	0.00E+00	0.00E+00	4.79E-04	0.00E+00	7.44E-04	0.00E+00	1.83E-03	3.92E-04	3.82E-03	2.00E-01	1.91E-02	3.30E-01	1.16E-02	4.60%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	4.02E-03	0.00E+00	2.02E-02	0.00E+00	5.60E-02	1.20E-02	1.06E-01	2.63E+02	4.02E-04	7.89E+02	1.34E-04	0.10%
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.06E+03	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.22E-01	0.00E+00	1.95E+00	0.00E+00	0.00E+00	2.38E+00	0.00E+00	2.92E+00	0.00E+00	8.09E+00	1.73E+00	1.75E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.16E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.99E-07	0.00E+00	0.00E+00	5.04E-06	0.00E+00	5.16E-08	0.00E+00	8.61E-06	1.84E-06	1.58E-05	4.58E+00	3.46E-06	9.16E+00	1.73E-06	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.54E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	1.46E-02	0.00E+00	0.00E+00	1.37E-03	0.00E+00	2.49E-04	0.00E+00	2.15E-03	4.61E-04	1.88E-02	2.10E-01	8.95E-02	2.10E+00	8.95E-03	21.55%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.97E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.03E-01	8.03E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	5.65E-02	0.00E+00	0.00E+00	2.90E-02	0.00E+00	1.94E-01	0.00E+00	6.36E-01	1.36E-01	1.05E+00	1.60E+02	6.58E-03	3.20E+02	3.29E-03	1.58%

Table O-140
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	0.00E+00	3.01E-09	0.00E+00	0.00E+00	3.55E-08	0.00E+00	5.00E-11	0.00E+00	3.56E-09	7.62E-10	4.29E-08	1.00E-06	4.29E-02	1.00E-05	4.29E-03	16.84%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.25E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.82E-07	0.00E+00	0.00E+00	7.48E-06	0.00E+00	9.36E-08	0.00E+00	1.71E-05	3.66E-06	2.91E-05	8.00E-01	3.64E-05	4.00E+00	7.28E-06	0.01%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	2.81E-05	0.00E+00	1.70E-06	0.00E+00	6.87E-05	1.47E-05	1.16E-04	8.00E-01	1.45E-04	4.00E+00	2.90E-05	0.06%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	1.03E-05	0.00E+00	1.25E-07	0.00E+00	2.31E-05	4.94E-06	3.95E-05	8.00E-01	4.94E-05	4.00E+00	9.88E-06	0.02%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.81E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.71E-07	0.00E+00	0.00E+00	1.70E-06	0.00E+00	3.57E-09	0.00E+00	3.75E-06	8.04E-07	6.43E-06	2.00E-01	3.21E-05	1.00E+00	6.43E-06	0.01%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.11E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.95E-07	0.00E+00	0.00E+00	2.87E-06	0.00E+00	1.18E-08	0.00E+00	6.45E-06	1.38E-06	1.10E-05	4.58E+00	2.40E-06	9.16E+00	1.20E-06	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.12E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	7.68E-05	0.00E+00	1.34E-03	2.87E-04	1.86E-03	1.25E-01	1.49E-02	1.25E+00	1.49E-03	5.84%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.40E-06	0.00E+00	0.00E+00	2.34E-05	0.00E+00	8.61E-08	0.00E+00	5.25E-05	1.12E-05	8.96E-05	6.85E-02	1.31E-03	6.85E-01	1.31E-04	0.51%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.17E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	1.08E-05	0.00E+00	3.98E-08	0.00E+00	2.43E-05	5.20E-06	4.14E-05	6.80E-02	6.09E-04	6.90E-01	6.00E-05	0.24%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.27E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	3.10E-06	0.00E+00	0.00E+00	3.10E-05	0.00E+00	4.75E-08	0.00E+00	3.85E-05	8.25E-06	8.09E-05	6.80E-02	1.19E-03	6.90E-01	1.17E-04	0.47%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.04E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	4.02E-05	0.00E+00	1.05E-08	0.00E+00	1.59E-04	3.42E-05	2.38E-04	6.80E-02	3.49E-03	6.90E-01	3.44E-04	1.37%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.43E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.99E-07	0.00E+00	0.00E+00	6.90E-06	0.00E+00	1.80E-06	0.00E+00	1.75E-05	3.74E-06	3.07E-05	6.80E-02	4.52E-04	6.90E-01	4.45E-05	0.18%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-05	0.00E+00	0.00E+00	1.70E-04	0.00E+00	2.86E-04	0.00E+00	4.54E-04	9.73E-05	1.03E-03	4.00E+00	2.57E-04	4.00E+01	2.57E-05	0.10%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.19E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.16E+00	1.40E+00	1.03E+00	1.03E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	1.02E-03	0.00E+00	1.34E-03	0.00E+00	5.08E-03	1.09E-03	8.83E-03	1.00E+00	8.83E-03	1.00E+01	8.83E-04	3.47%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.16E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.04E-07	0.00E+00	0.00E+00	1.99E-06	0.00E+00	8.15E-09	0.00E+00	4.47E-06	9.57E-07	7.62E-06	4.58E+00	1.66E-06	9.16E+00	8.32E-07	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	2.06E-04	0.00E+00	1.78E-03	0.00E+00	2.14E-02	4.60E-03	3.82E-02	2.74E+03	1.40E-05	2.74E+04	1.40E-06	0.01%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	2.93E-06	0.00E+00	2.53E-05	0.00E+00	3.04E-04	6.52E-05	5.42E-04	3.28E+00	1.65E-04	1.31E+01	4.13E-05	0.06%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.19E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.08E-07	0.00E+00	0.00E+00	2.02E-06	0.00E+00	8.30E-09	0.00E+00	4.55E-06	9.75E-07	7.76E-06	4.58E+00	1.69E-06	9.16E+00	8.47E-07	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.48E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.46E+00	5.20E-01	6.25E-01	6.25E-01	8.97E-02	8.97E-02	0.00E+00	0.00E+00	6.14E-03	0.00E+00	0.00E+00	9.60E-03	0.00E+00	1.64E-02	0.00E+00	1.37E-02	2.95E-03	4.88E-02	1.17E+01	4.18E-03	1.51E+01	3.23E-03	1.64%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.67E-07	0.00E+00	0.00E+00	1.57E-06	0.00E+00	1.71E-08	0.00E+00	3.65E-06	7.82E-07	6.19E-06	2.00E-02	3.09E-04	2.00E-01	3.09E-05	0.12%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.36E-06	0.00E+00	2.94E-08	0.00E+00	7.59E-06	1.63E-06	1.19E-05	9.20E-02	1.29E-04	9.20E-01	1.29E-05	0.05%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.04E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.93E-07	0.00E+00	0.00E+00	1.85E-06	0.00E+00	1.31E-08	0.00E+00	4.23E-06	9.06E-07	7.19E-06	8.00E-02	8.99E-05	2.90E-01	2.48E-05	0.04%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	8.62E+00	0.00E+00	0.00E+00	3.32E-01	0.00E+00	1.48E-01	0.00E+00	3.78E-01	8.11E-02	9.56E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	2.03E+01	mg/kg	1.00E+00	4.48E+02	NA	1.81E-02	NA	7.03E-02	7.03E-02	1.16E-02	1.16E-02	1.69E-04	1.93E-02	0.00E+00	NA	3.73E-04	NA	5.79E-03	0.00E+00	5.60E-03	1.20E-03	3.24E-02	8.00E+00	4.05E-03	8.00E+01	4.05E-04	1.59%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	0.00E+00	7.86E-01	0.00E+00	0.00E+00	1.90E-01	0.00E+00	2.66E-01	0.00E+00	1.49E-01	3.19E-02	1.42E+00	8.80E+01	1.62E-02	2.84E+02	5.01E-03	6.34%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.07E-02	mg/kg	1.00E+00		7.50E-01	7.97E+00	NA	1.45E+00	1.45E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	4.80E-05	0.00E+00	0.00E+00	4.09E-04	NA	2.98E-04	0.00E+00	1.10E-04	2.35E-05	8.89E-04	1.00E+00	8.89E-04	3.00E+00	2.96E-04	0.35%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-07	0.00E+00	0.00E+00	2.72E-06	0.00E+00	4.00E-09	0.00E+00	5.95E-06	1.27E-06	1.02E-05	7.00E-02	1.46E-04	7.00E-01	1.46E-05	0.06%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.19E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.89E-02	6.89E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	5.86E-03	0.00E+00	0.00E+00	6.64E-03	0.00E+00	1.73E-03	0.00E+00	1.27E-02	2.73E-03	2.97E-02	4.00E+01	7.42E-04	8.00E+01	3.71E-04	0.29%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	1.13E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.74E-03	0.00E+00	1.07E-03	0.00E+00	0.00E+00	3.43E-04	0.00E+00	9.60E-04	0.00E+00	2.95E-03	6.33E-04	8.70E-03	5.07E+02	1.72E-05	1.13E+03	7.70E-06	0.01%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.62E-07	0.00E+00	0.00E+00	1.52E-06	0.00E+00	1.82E-08	0.00E+00	3.54E-06	7.58E-07	6.00E-06	4.58E+00	1.31E-06	9.16E+00	6.55E-07	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.57E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.28E-07	0.00E+00	0.00E+00	4.94E-06	0.00E+00	6.19E-08	0.00E+00	1.15E-05	2.47E-06	1.95E-05	2.40E-01	8.14E-05	2.40E+00	8.14E-06	0.03%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	3.80E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	0.00E+00	6.55E-05	0.00E+00	7.87E-03	1.69E-03	1.29E-02	2.40E-01	5.38E-02	2.40E+00	5.38E-03	21.12%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	4.97E-02	mg/kg	1.00E+00			3.00E-01	NA	3.82E+01	3.82E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.71E-05	0.00E+00	0.00E+00	1.51E-05	NA	7.70E-03	0.00E+00	1.30E-04	2.79E-05	7.92E-03	8.50E+00	9.32E-04	2.55E+01	3.11E-04	0.37%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.70E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.26E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	4.55E-04	0.00E+00	6.89E-04	0.00E+00	1.32E-03	2.83E-04	3.10E-03	2.00E-01	1.55E-02	3.30E-01	9.40E-03	6.08%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.23E-02	0.00E+00	0.00E+00	1.15E-03	0.00E+00	1.11E-02	0.00E+00	3.40E-02	7.29E-03	6.58E-02	2.63E+02	2.50E-04	7.89E+02	8.34E-05	0.10%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.38E+03	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.43E-01	0.00E+00	1.30E+00	0.00E+00	0.00E+00	4.19E-01	0.00E+00	1.17E+00	0.00E+00	3.61E+00	7.73E-01	7.52E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.64E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.50E-07	0.00E+00	0.00E+00	2.43E-06	0.00E+00	9.96E-09	0.00E+00	5.46E-06	1.17E-06	9.32E-06	4.58E+00	2.03E-06	9.16E+00	1.02E-06	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	1.37E-02	0.00E+00	0.00E+00	6.16E-04	0.00E+00	2.11E-04	0.00E+00	1.88E-03	4.02E-04	1.68E-02	2.10E-01	8.01E-02	2.10E+00	8.01E-03	31.42%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.80E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	4.54E-02	0.00E+00	0.00E+00	2.33E-02	0.00E+00	1.72E-01	0.00E+00	2.09E-01	4.47E-02	4.94E-01	1.60E+02	3.09E-03	3.20E+02	1.54E-03	1.21%

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Table O-141
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-09	1.32E-10	1.05E-09	0.00E+00	0.00E+00	5.03E-08	1.00E-06	5.03E-02	1.00E-05	5.03E-03	0.08%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-07	0.00E+00	0.00E+00	0.00E+00	8.22E-07	8.00E-01	1.03E-06	4.00E+00	2.06E-07	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-05	0.00E+00	0.00E+00	0.00E+00	1.96E-05	8.00E-01	2.44E-05	4.00E+00	4.89E-06	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	1.31E-06	8.00E-01	1.64E-06	4.00E+00	3.27E-07	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-09	0.00E+00	0.00E+00	0.00E+00	9.30E-09	2.00E-01	4.65E-08	1.00E+00	9.30E-09	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00	1.11E-07	4.58E+00	2.43E-08	9.16E+00	1.21E-08	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	1.12E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E+00	0.00E+00	1.24E+00	0.00E+00	0.00E+00	1.15E+02	1.93E+00	5.95E+01	1.93E+01	5.95E+00	94.47%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	3.27E-04	1.25E-01	2.62E-03	1.25E+00	2.62E-04	0.00%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-06	0.00E+00	0.00E+00	0.00E+00	3.67E-06	6.85E-02	5.36E-05	6.85E-01	5.36E-06	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	0.00E+00	0.00E+00	0.00E+00	1.05E-07	6.80E-02	1.55E-06	6.80E-01	1.55E-07	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-07	0.00E+00	0.00E+00	0.00E+00	2.67E-07	6.80E-02	3.92E-06	6.80E-01	3.92E-07	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-07	0.00E+00	0.00E+00	0.00E+00	2.49E-07	6.80E-02	3.66E-06	6.80E-01	3.66E-07	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-06	0.00E+00	0.00E+00	0.00E+00	3.28E-06	6.80E-02	4.82E-05	6.80E-01	4.82E-06	0.00%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.10E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.86E+00	0.00E+00	3.86E+00	0.00E+00	0.00E+00	8.82E+00	5.10E+00	1.73E+00	1.98E+01	4.46E-01	2.75%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	1.60E-03	4.00E+00	4.01E-04	4.00E+01	4.01E-05	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	2.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	1.58E-05	0.00E+00	0.00E+00	2.14E-03	1.83E+01	1.17E-04	1.83E+02	1.17E-05	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	1.24E+00	9.22E-01	9.22E-01	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.75E-03	2.68E-03	8.75E-03	0.00E+00	0.00E+00	2.16E-02	1.00E+00	2.16E-02	1.00E+01	2.16E-03	0.03%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-08	0.00E+00	0.00E+00	0.00E+00	5.55E-08	4.58E+00	1.21E-08	9.16E+00	6.05E-09	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-02	0.00E+00	0.00E+00	0.00E+00	4.25E-02	2.74E+03	1.55E-05	2.74E+04	1.55E-06	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	6.03E-04	3.28E+00	1.84E-04	1.31E+01	4.59E-05	0.00%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-08	0.00E+00	0.00E+00	0.00E+00	7.32E-08	4.58E+00	1.60E-08	9.16E+00	7.99E-09	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	4.60E-01	1.49E-01	1.49E-01	0.00E+00	7.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-01	3.13E-02	1.63E-01	0.00E+00	0.00E+00	4.30E-01	1.17E+01	3.68E-02	1.51E+01	2.84E-02	0.06%
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	0.00E+00	0.00E+00	2.23E-06	2.00E-02	1.12E-04	2.00E-01	1.12E-05	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-08	0.00E+00	0.00E+00	0.00E+00	7.72E-08	9.20E-02	8.39E-07	9.20E-01	8.39E-08	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-08	0.00E+00	0.00E+00	0.00E+00	3.05E-08	8.00E-02	3.81E-07	2.90E-01	1.05E-07	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-01	0.00E+00	0.00E+00	0.00E+00	2.94E-01	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	2.91E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.53E-02	NA	0.00E+00	0.00E+00	3.56E-02	8.00E+00	4.45E-03	8.00E+01	4.45E-04	0.01%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	3.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E+00	6.86E-01	1.61E+00	0.00E+00	0.00E+00	7.27E+00	8.80E+01	8.26E-02	2.84E+02	2.56E-02	0.13%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	5.88E-04	NA	0.00E+00	0.00E+00	5.88E-04	1.32E+01	4.45E-05	3.96E+01	1.48E-05	0.00%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	1.17E+00			0.00E+00	5.52E-04	0.00E+00	0.00E+00	0.00E+00	NA	3.11E-03	NA	3.11E-03	0.00E+00	0.00E+00	6.76E-03	3.20E-02	2.11E-01	1.60E-01	4.23E-02	0.34%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-08	0.00E+00	0.00E+00	0.00E+00	8.60E-08	7.00E-02	1.23E-06	7.00E-01	1.23E-07	0.00%
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	5.96E-02	1.01E-01	1.01E-01	0.00E+00	7.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-02	3.47E-03	2.17E-02	0.00E+00	0.00E+00	1.23E-01	4.00E+01	3.08E-03	8.00E+01	1.54E-03	0.00%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.74E-03	6.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-02	0.00E+00	1.14E-02	0.00E+00	0.00E+00	3.84E-02	5.07E+02	7.57E-05	1.13E+03	3.40E-05	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-08	0.00E+00	0.00E+00	0.00E+00	3.40E-08	4.58E+00	7.42E-09	9.16E+00	3.71E-09	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-07	0.00E+00	0.00E+00	0.00E+00	2.17E-07	2.40E-01	9.03E-07	2.40E+00	9.03E-08	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	2.19E-04	2.40E-01	9.11E-04	2.40E+00	9.11E-05	0.00%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.86E-02	0.00E+00	0.00E+00	0.00E+00	3.86E-02	8.50E+00	4.54E-03	2.55E+01	1.51E-03	0.01%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	5.00E-01	1.95E-01	1.95E-01	0.00E+00	6.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-02	1.40E-03	1.44E-02	0.00E+00	0.00E+00	5.24E-02	2.00E-01	2.62E-01	3.30E-01	1.59E-01	0.42%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02	0.00E+00	0.00E+00	0.00E+00	3.66E-02	2.63E+02	1.39E-04	7.89E+02	4.64E-05	0.00%
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.86E-01	2.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-01	5.90E-01	3.47E-01	0.00E+00	0.00E+00	1.98E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-08	0.00E+00	0.00E+00	0.00E+00	8.98E-08	4.58E+00	1.96E-08	9.16E+00	9.80E-09	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	2.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-03	4.50E-04	4.07E-03	0.00E+00	0.00E+00	2.21E-01	2.10E-01	1.05E+00	2.10E+00	1.05E-01	1.67%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.57E-01	4.51E-01	4.51E-01	0.00E+00	3.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E+00	3.49E-01	1.46E+00	0.00E+00	0.00E+00	3.62E+00	1.60E+02	2.26E-02	3.20E+02	1.13E-02	0.04%

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Table O-142
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	4.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-10	9.04E-11	8.93E-10	0.00E+00	0.00E+00	5.00E-08	1.00E-06	5.00E-02	1.00E-05	5.00E-03	0.11%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-07	8.00E-01	2.05E-07	4.00E+00	4.11E-08	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-06	0.00E+00	0.00E+00	0.00E+00	3.09E-06	8.00E-01	3.87E-06	4.00E+00	7.73E-07	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-07	0.00E+00	0.00E+00	0.00E+00	2.19E-07	8.00E-01	2.74E-07	4.00E+00	5.48E-08	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-09	0.00E+00	0.00E+00	0.00E+00	6.27E-09	2.00E-01	3.14E-08	1.00E+00	6.27E-09	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-08	0.00E+00	0.00E+00	0.00E+00	2.16E-08	4.58E+00	4.71E-09	9.16E+00	2.35E-09	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	8.15E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-01	0.00E+00	5.85E-01	0.00E+00	0.00E+00	8.27E+01	1.93E+00	4.28E+01	1.93E+01	4.28E+00	93.97%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	1.38E-04	1.25E-01	1.11E-03	1.25E+00	1.11E-04	0.00%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-07	0.00E+00	0.00E+00	0.00E+00	1.57E-07	6.85E-02	2.29E-06	6.85E-01	2.29E-07	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-08	0.00E+00	0.00E+00	0.00E+00	7.43E-08	6.80E-02	1.09E-06	6.80E-01	1.09E-07	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-08	0.00E+00	0.00E+00	0.00E+00	8.70E-08	6.80E-02	1.28E-06	6.80E-01	1.28E-07	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-08	0.00E+00	0.00E+00	0.00E+00	1.92E-08	6.80E-02	2.82E-07	6.80E-01	2.82E-08	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	0.00E+00	3.06E-06	6.80E-02	4.50E-05	6.80E-01	4.50E-06	0.00%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	8.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.98E+00	0.00E+00	2.98E+00	0.00E+00	0.00E+00	6.82E+00	5.10E+00	1.34E+00	1.98E+01	3.45E-01	2.94%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	4.00E+00	3.01E-04	4.00E+01	3.01E-05	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	0.00E+00	4.10E-06	0.00E+00	0.00E+00	1.57E-03	1.83E+01	8.58E-05	1.83E+02	8.59E-06	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.40E+00	6.72E-01	6.72E-01	0.00E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-03	2.35E-03	7.50E-03	0.00E+00	0.00E+00	1.85E-02	1.00E+01	1.85E-02	1.00E+01	1.85E-03	0.04%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	1.18E-08	4.58E+00	2.58E-09	9.16E+00	1.29E-09	0.00%
Chromium (trivalent)	0.00E+00	mg/L	1.09E+01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	2.74E+03	1.19E-06	2.74E+04	1.19E-07	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.64E-05	3.28E+00	1.41E-05	1.31E+01	3.53E-06	0.00%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-08	4.58E+00	3.17E-09	9.16E+00	1.58E-09	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	5.20E-01	8.97E-02	8.97E-02	0.00E+00	6.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-01	2.98E-02	1.50E-01	0.00E+00	0.00E+00	3.91E-01	1.17E+01	3.34E-02	1.51E+01	2.58E-02	0.07%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-08	0.00E+00	0.00E+00	0.00E+00	3.03E-08	2.00E-02	1.51E-06	2.00E-01	1.51E-07	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-08	0.00E+00	0.00E+00	0.00E+00	4.78E-08	9.20E-02	5.20E-07	9.20E-01	5.20E-08	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	0.00E+00	2.25E-08	8.00E-02	2.81E-07	2.90E-01	7.76E-08	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-01	0.00E+00	0.00E+00	0.00E+00	2.67E-01	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	1.94E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	2.99E-02	NA	0.00E+00	0.00E+00	3.01E-02	8.00E+00	3.76E-03	8.00E+01	3.76E-04	0.01%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	2.39E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-01	4.81E-01	9.03E-01	0.00E+00	0.00E+00	4.67E+00	8.80E+01	5.31E-02	2.84E+02	1.65E-02	0.12%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	5.58E-04	NA	0.00E+00	0.00E+00	5.58E-04	1.32E+01	4.23E-05	3.96E+01	1.41E-05	0.00%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	1.37E+00			0.00E+00	3.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.60E-03	NA	2.60E-03	0.00E+00	0.00E+00	5.61E-03	3.20E-02	1.75E-01	1.60E-01	3.51E-02	0.38%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-09	0.00E+00	0.00E+00	0.00E+00	7.27E-09	7.00E-02	1.04E-07	7.00E-01	1.04E-08	0.00%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.34E-02	8.71E-02	8.71E-02	0.00E+00	5.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02	3.19E-03	1.80E-02	0.00E+00	0.00E+00	9.87E-02	4.00E+01	2.47E-03	8.00E+01	1.23E-03	0.01%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.16E-03	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-03	0.00E+00	4.12E-03	0.00E+00	0.00E+00	1.55E-02	5.07E+02	3.06E-05	1.13E+03	1.37E-05	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-08	4.58E+00	7.19E-09	9.16E+00	3.60E-09	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	1.13E-07	2.40E-01	4.71E-07	2.40E+00	4.71E-08	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-05	0.00E+00	0.00E+00	0.00E+00	7.72E-05	2.40E-01	3.22E-04	2.40E+00	3.22E-05	0.00%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.80E-02	0.00E+00	0.00E+00	0.00E+00	1.80E-02	8.50E+00	2.12E-03	2.55E+01	7.07E-04	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.84E-01	1.51E-01	1.51E-01	0.00E+00	4.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-02	1.26E-03	1.01E-02	0.00E+00	0.00E+00	3.28E-02	2.00E-01	1.64E-01	3.30E-01	9.94E-02	0.36%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	0.00E+00	2.00E-02	2.63E+02	7.61E-05	7.89E+02	2.54E-05	0.00%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.79E-01	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-01	2.00E-01	1.79E-01	0.00E+00	0.00E+00	1.02E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-08	0.00E+00	0.00E+00	0.00E+00	1.73E-08	4.58E+00	3.77E-09	9.16E+00	1.89E-09	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	1.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-03	3.82E-04	3.09E-03	0.00E+00	0.00E+00	1.86E-01	2.10E-01	8.84E-01	2.10E+00	8.84E-02	1.94%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	9.28E-01

Table O-143
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	8.87E-10	0.00E+00	0.00E+00	7.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-10	7.57E-08	1.00E-06	7.57E-02	1.00E-05	7.57E-03	0.38%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-07	7.89E-07	8.00E-01	9.86E-07	4.00E+00	1.97E-07	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-06	2.09E-06	8.00E-01	2.61E-06	4.00E+00	5.22E-07	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-06	1.81E-06	8.00E-01	2.26E-06	4.00E+00	4.53E-07	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	1.05E-07	2.00E-01	5.27E-07	1.00E+00	1.05E-07	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-07	2.12E-07	4.58E+00	4.63E-08	9.16E+00	2.31E-08	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	2.07E+00	0.00E+00	0.00E+00	3.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E+01	1.93E+00	1.96E+01	1.93E+01	1.96E+00	98.24%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	5.17E-05	1.25E-01	4.14E-04	1.25E+00	4.14E-05	0.00%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-06	1.73E-06	6.85E-02	2.52E-05	6.85E-01	2.52E-06	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-07	7.99E-07	6.80E-02	1.18E-05	6.90E-01	1.16E-06	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-06	2.13E-06	6.80E-02	3.14E-05	6.90E-01	3.09E-06	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	7.00E-06	6.80E-02	1.03E-04	6.90E-01	1.01E-05	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-07	4.79E-07	6.80E-02	7.04E-06	6.90E-01	6.94E-07	0.00%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.04E-02	0.00E+00	0.00E+00	3.52E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-01	5.10E+00	7.31E-02	1.98E+01	1.88E-02	0.37%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	3.83E-05	4.00E+00	9.57E-06	4.00E+01	9.57E-07	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	1.83E+01	1.81E-04	1.83E+02	1.81E-05	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	2.72E-05	0.00E+00	0.00E+00	8.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	1.04E-03	1.00E+00	1.04E-03	1.00E+01	1.04E-04	0.01%
Chlordane	0.00E+00	mg/L	1.88E-04	mg/kg	1.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-07	1.06E-07	4.58E+00	2.31E-08	9.16E+00	1.15E-08	0.00%
Chromium (trivalent)	0.00E+00	mg/L	1.21E+01	mg/kg	1.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-03	1.97E-03	2.74E+03	7.18E-07	2.74E+04	7.18E-08	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	2.79E-05	3.28E+00	8.51E-06	1.31E+01	2.12E-06	0.00%
cis-Nonachlor	0.00E+00	mg/L	2.48E-04	mg/kg	1.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-07	1.39E-07	4.58E+00	3.04E-08	9.16E+00	1.52E-08	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	1.36E-03	0.00E+00	0.00E+00	2.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-04	2.94E-02	1.17E+01	2.51E-03	1.51E+01	1.94E-03	0.01%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-07	1.05E-07	2.00E-02	5.23E-06	2.00E-01	5.23E-07	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-07	1.64E-07	9.20E-02	1.78E-06	9.20E-01	1.78E-07	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-07	1.24E-07	8.00E-02	1.55E-06	2.90E-01	4.28E-07	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	1.01E-02	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.00E-05	0.00E+00	0.00E+00	3.96E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	4.08E-02	8.00E+00	5.10E-03	8.00E+01	5.10E-04	0.03%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	6.20E-02	0.00E+00	0.00E+00	5.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03	5.67E-01	8.80E+01	6.45E-03	2.84E+02	2.00E-03	0.03%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-06	3.00E-06	1.00E+00	3.00E-06	3.00E+00	9.98E-07	0.00%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	1.02E-05	0.00E+00	0.00E+00	2.94E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.95E-05	1.50E-02	2.64E-03	2.50E-02	1.58E-03	0.01%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-07	1.92E-07	7.00E-02	2.75E-06	7.00E-01	2.75E-07	0.00%
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	1.40E-03	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	1.43E-02	4.00E+01	3.57E-04	8.00E+01	1.78E-04	0.00%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.50E-03	1.26E-04	0.00E+00	8.45E-01	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-01	5.07E+02	1.67E-03	1.13E+03	7.50E-04	0.01%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-08	9.90E-08	4.58E+00	2.16E-08	9.16E+00	1.08E-08	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07	4.97E-07	2.40E-01	2.07E-06	2.40E+00	2.07E-07	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	2.38E-04	2.40E-01	9.92E-04	2.40E+00	9.92E-05	0.00%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-05	2.27E-05	8.50E+00	2.68E-06	2.55E+01	8.92E-07	0.00%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	1.11E-04	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	2.07E-03	2.00E-01	1.04E-02	3.30E-01	6.28E-03	0.05%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	1.16E-03	2.63E+02	4.41E-06	7.89E+02	1.47E-06	0.00%
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.33E-02	3.81E-03	0.00E+00	4.70E+01	3.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	4.71E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-07	1.71E-07	4.58E+00	3.73E-08	9.16E+00	1.87E-08	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00

Table O-144
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	6.54E-10	0.00E+00	0.00E+00	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-11	1.25E-08	1.00E-06	1.25E-02	1.00E-05	1.25E-03	0.12%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-07	2.53E-07	8.00E-01	3.16E-07	4.00E+00	6.32E-08	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-06	1.05E-06	8.00E-01	1.32E-06	4.00E+00	2.63E-07	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-07	3.42E-07	8.00E-01	4.27E-07	4.00E+00	8.54E-08	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-08	5.56E-08	2.00E-01	2.78E-07	1.00E+00	5.56E-08	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-08	9.96E-08	4.58E+00	2.17E-08	9.16E+00	1.99E-08	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	1.11E+00	0.00E+00	0.00E+00	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E+01	1.93E+00	1.05E+01	1.93E+01	1.05E+00	99.10%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	2.03E-05	1.25E-01	1.63E-04	1.25E+00	1.63E-05	0.00%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-07	8.06E-07	6.85E-02	1.18E-05	6.85E-01	1.18E-06	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-07	3.82E-07	6.80E-02	5.62E-06	6.90E-01	5.53E-07	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.95E-07	5.95E-07	6.80E-02	8.75E-06	6.90E-01	8.63E-07	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06	2.45E-06	6.80E-02	3.61E-05	6.90E-01	3.55E-06	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-07	2.50E-07	6.80E-02	3.68E-06	6.90E-01	3.63E-07	0.00%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.16E-02	0.00E+00	0.00E+00	2.01E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-01	5.10E+00	4.17E-02	1.98E+01	1.07E-02	0.39%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	1.61E-05	4.00E+00	4.03E-06	4.00E+01	4.03E-07	0.00%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	2.13E-05	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	1.83E+01	2.20E-05	1.83E+02	2.20E-06	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	1.52E-05	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05	1.24E-04	1.00E+00	1.24E-04	1.00E+01	1.24E-05	0.00%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-08	5.47E-08	4.58E+00	1.19E-08	9.16E+00	5.97E-09	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	3.32E-04	2.74E+03	1.21E-07	2.74E+04	1.21E-08	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06	4.71E-06	3.28E+00	1.44E-06	1.31E+01	3.58E-07	0.00%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-08	6.70E-08	4.58E+00	1.46E-08	9.16E+00	7.31E-09	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	8.21E-04	0.00E+00	0.00E+00	4.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	5.96E-03	1.17E+01	5.09E-04	1.51E+01	3.94E-04	0.00%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.43E-08	5.43E-08	2.00E-02	2.72E-06	2.00E-01	2.72E-07	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-07	1.04E-07	9.20E-02	1.13E-06	9.20E-01	1.13E-07	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-08	6.10E-08	8.00E-02	7.63E-07	2.90E-01	2.10E-07	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-03	5.77E-03	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.46E-05	0.00E+00	0.00E+00	5.82E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-04	6.40E-03	8.00E+00	7.99E-04	8.00E+01	7.99E-05	0.01%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	3.25E-02	0.00E+00	0.00E+00	5.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	8.72E-02	8.80E+01	9.91E-04	2.84E+02	3.07E-04	0.01%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-06	1.78E-06	1.00E+00	1.78E-06	3.00E+00	5.94E-07	0.00%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	5.42E-06	0.00E+00	0.00E+00	1.56E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	1.50E-02	1.40E-03	2.50E-02	8.42E-04	0.01%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-08	9.12E-08	7.00E-02	1.30E-06	7.00E-01	1.30E-07	0.00%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	8.08E-04	0.00E+00	0.00E+00	1.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	2.52E-03	4.00E+01	6.30E-05	8.00E+01	3.15E-05	0.00%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.00E-04	5.58E-05	0.00E+00	6.35E-02	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-02	5.07E+02	1.26E-04	1.13E+03	5.66E-05	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-08	5.39E-08	4.58E+00	1.18E-08	9.16E+00	5.89E-09	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-07	1.78E-07	2.40E-01	7.40E-07	2.40E+00	7.40E-08	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05	7.82E-05	2.40E-01	3.26E-04	2.40E+00	3.26E-05	0.00%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-06	3.08E-06	8.50E+00	3.62E-07	2.55E+01	1.21E-07	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	5.93E-05	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	1.11E-03	2.00E-01	5.53E-03	3.30E-01	3.35E-03	0.05%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	5.19E-04	2.63E+02	1.97E-06	7.89E+02	6.57E-07	0.00%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.54E-02	2.42E-03	0.00E+00	5.61E+00	3.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-03	5.66E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table O-145
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	1.00E-06	1.34E-03	1.00E-05	1.34E-04	0.34%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	8.39E-06	8.00E-01	1.05E-05	4.00E+00	2.10E-06	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	2.00E-04	8.00E-01	2.49E-04	4.00E+00	4.99E-05	0.06%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	1.33E-05	8.00E-01	1.67E-05	4.00E+00	3.34E-06	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-08	0.00E+00	0.00E+00	0.00E+00	9.49E-08	2.00E-01	4.75E-07	1.00E+00	9.49E-08	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	0.00E+00	1.14E-06	4.58E+00	2.48E-07	9.16E+00	1.24E-07	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-03	0.00E+00	0.00E+00	0.00E+00	3.34E-03	1.25E-01	2.67E-02	1.25E+00	2.67E-03	6.84%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	3.75E-05	6.85E-02	5.47E-04	6.85E-01	5.47E-05	0.14%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-06	0.00E+00	0.00E+00	0.00E+00	1.07E-06	6.80E-02	1.58E-05	6.80E-01	1.58E-06	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	0.00E+00	2.72E-06	6.80E-02	4.00E-05	6.80E-01	4.00E-06	0.01%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-06	0.00E+00	0.00E+00	0.00E+00	2.54E-06	6.80E-02	3.74E-05	6.80E-01	3.74E-06	0.01%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	3.35E-05	6.80E-02	4.92E-04	6.80E-01	4.92E-05	0.13%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00	0.00E+00	1.64E-02	4.00E+00	4.09E-03	4.00E+01	4.09E-04	1.05%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	2.74E-02	1.00E+00	2.74E-02	1.00E+01	2.74E-03	7.01%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-07	0.00E+00	0.00E+00	0.00E+00	5.66E-07	4.58E+00	1.24E-07	9.16E+00	6.18E-08	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-01	0.00E+00	0.00E+00	0.00E+00	4.34E-01	2.74E+03	1.58E-04	2.74E+04	1.58E-05	0.04%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03	0.00E+00	0.00E+00	0.00E+00	6.16E-03	3.28E+00	1.88E-03	1.31E+01	4.69E-04	0.48%
cis-Nonachlor	0.00E+00	mg/L	2.48E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-07	0.00E+00	0.00E+00	0.00E+00	7.47E-07	4.58E+00	1.63E-07	9.16E+00	8.16E-08	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-01	0.00E+00	0.00E+00	0.00E+00	3.20E-01	1.17E+01	2.73E-02	1.51E+01	2.11E-02	7.00%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	2.28E-05	2.00E-02	1.14E-03	2.00E-01	1.14E-04	0.29%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-07	0.00E+00	0.00E+00	0.00E+00	7.88E-07	9.20E-02	8.56E-06	9.20E-01	8.56E-07	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-07	0.00E+00	0.00E+00	0.00E+00	3.11E-07	8.00E-02	3.89E-06	2.90E-01	1.07E-06	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.74E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.60E-01	0.00E+00	0.00E+00	0.00E+00	3.61E-01	8.00E+00	4.51E-02	8.00E+01	4.51E-03	11.56%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E+00	8.80E+01	7.96E-02	2.84E+02	2.47E-02	20.39%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	6.00E-03	0.00E+00	0.00E+00	6.00E-03	1.32E+01	4.55E-04	3.96E+01	1.52E-04	0.12%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-07	0.00E+00	0.00E+00	0.00E+00	8.78E-07	7.00E-02	1.25E-05	7.00E-01	1.25E-06	0.00%
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-02	0.00E+00	0.00E+00	0.00E+00	3.54E-02	4.00E+01	8.84E-04	8.00E+01	4.42E-04	0.23%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-02	5.07E+02	2.80E-05	1.13E+03	1.26E-05	0.01%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-07	0.00E+00	0.00E+00	0.00E+00	3.47E-07	4.58E+00	7.57E-08	9.16E+00	3.78E-08	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	0.00E+00	2.21E-06	2.40E-01	9.22E-06	2.40E+00	9.22E-07	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-03	0.00E+00	0.00E+00	0.00E+00	2.23E-03	2.40E-01	9.29E-03	2.40E+00	9.29E-04	2.38%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.94E-01	0.00E+00	0.00E+00	0.00E+00	3.94E-01	8.50E+00	4.63E-02	2.55E+01	1.54E-02	11.87%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	0.00E+00	0.00E+00	0.00E+00	1.43E-02	2.00E-01	7.16E-02	3.30E-01	4.34E-02	18.34%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-01	0.00E+00	0.00E+00	0.00E+00	3.74E-01	2.63E+02	1.42E-03	7.89E+02	4.74E-04	0.36%
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E+00	0.00E+00	0.00E+00	0.00E+00	6.81E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-07	0.00E+00	0.00E+00	0.00E+00	9.16E-07	4.58E+00	2.00E-07	9.16E+00	1.00E-07	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-03	0.00E+00	0.00E+00	0.00E+00	4.59E-03	2.10E-01	2.19E-02	2.10E+00	2.19E-03	5.60%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+00	1.60E+02	2.23E-02	3.20E+02	1.11E-02	5.70

Table O-146
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+00	0.00E+00	1.33E+01	0.00E+00	0.00%
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	0.00E+00	2.64E-01	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-10	0.00E+00	0.00E+00	0.00E+00	7.56E-10	1.00E-06	7.56E-04	1.00E-05	7.56E-05	0.32%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	3.00E-01	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.50E+00	0.00E+00	0.00%
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	6.00E-01	0.00E+00	0.00%
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	1.37E-06	8.00E-01	1.72E-06	4.00E+00	3.43E-07	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	2.58E-05	8.00E-01	3.23E-05	4.00E+00	6.46E-06	0.01%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-06	0.00E+00	0.00E+00	0.00E+00	1.83E-06	8.00E-01	2.29E-06	4.00E+00	4.58E-07	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-08	0.00E+00	0.00E+00	0.00E+00	5.24E-08	2.00E-01	2.62E-07	1.00E+00	5.24E-08	0.00%
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-07	0.00E+00	0.00E+00	0.00E+00	1.80E-07	4.58E+00	3.93E-08	9.16E+00	1.97E-08	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+00	0.00E+00	1.93E+01	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	1.15E-03	1.25E-01	9.24E-03	1.25E+00	9.24E-04	3.90%
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-06	0.00E+00	0.00E+00	0.00E+00	1.31E-06	6.85E-02	1.91E-05	6.85E-01	1.91E-06	0.01%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-07	0.00E+00	0.00E+00	0.00E+00	6.21E-07	6.80E-02	9.13E-06	6.80E-01	9.13E-07	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-07	0.00E+00	0.00E+00	0.00E+00	7.27E-07	6.80E-02	1.07E-05	6.80E-01	1.07E-06	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-07	0.00E+00	0.00E+00	0.00E+00	1.60E-07	6.80E-02	2.36E-06	6.80E-01	2.36E-07	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	2.55E-05	6.80E-02	3.76E-04	6.80E-01	3.76E-05	0.16%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E+00	0.00E+00	1.98E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	1.00E-02	4.00E+00	2.51E-03	4.00E+01	2.51E-04	1.06%
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00%
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-02	0.00E+00	0.00E+00	0.00E+00	1.96E-02	1.00E+00	1.96E-02	1.00E+01	1.96E-03	8.29%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-08	0.00E+00	0.00E+00	0.00E+00	9.89E-08	4.58E+00	2.16E-08	9.16E+00	1.08E-08	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	0.00E+00	0.00E+00	0.00E+00	2.73E-02	2.74E+03	9.97E-06	2.74E+04	9.97E-07	0.00%
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-04	0.00E+00	0.00E+00	0.00E+00	3.88E-04	3.28E+00	1.18E-04	1.31E+01	2.95E-05	0.05%
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	1.21E-07	4.58E+00	2.65E-08	9.16E+00	1.32E-08	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-01	0.00E+00	0.00E+00	0.00E+00	2.49E-01	1.17E+01	2.13E-02	1.51E+01	1.64E-02	8.98%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-07	0.00E+00	0.00E+00	0.00E+00	2.53E-07	2.00E-02	1.26E-05	2.00E-01	1.26E-06	0.01%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-07	0.00E+00	0.00E+00	0.00E+00	3.99E-07	9.20E-02	4.34E-06	9.20E-01	4.34E-07	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-07	0.00E+00	0.00E+00	0.00E+00	1.88E-07	8.00E-02	2.35E-06	2.90E-01	6.48E-07	0.00%
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.58E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	2.50E-01	0.00E+00	0.00E+00	0.00E+00	2.50E-01	8.00E+00	3.13E-02	8.00E+01	3.13E-03	13.19%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E+00	0.00E+00	0.00E+00	0.00E+00	4.02E+00	8.80E+01	4.56E-02	2.84E+02	1.41E-02	19.26%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	4.66E-03	0.00E+00	0.00E+00	0.00E+00	4.66E-03	1.32E+01	3.53E-04	3.96E+01	1.18E-04	0.15%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-08	0.00E+00	0.00E+00	0.00E+00	6.08E-08	7.00E-02	8.68E-07	7.00E-01	8.68E-08	0.00%
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-02	0.00E+00	0.00E+00	0.00E+00	2.66E-02	4.00E+01	6.66E-04	8.00E+01	3.33E-04	0.28%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-03	5.07E+02	8.29E-06	1.13E+03	3.72E-06	0.00%
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E+02	0.00E+00	1.13E+03	0.00E+00	0.00%
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-07	0.00E+00	0.00E+00	0.00E+00	2.75E-07	4.58E+00	6.01E-08	9.16E+00	3.01E-08	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	6.30E+00	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-07	0.00E+00	0.00E+00	0.00E+00	9.43E-07	2.40E-01	3.93E-06	2.40E+00	3.93E-07	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	6.45E-04	2.40E-01	2.69E-03	2.40E+00	2.69E-04	1.13%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	1.51E-01	0.00E+00	0.00E+00	0.00E+00	1.51E-01	8.50E+00	1.77E-02	2.55E+01	5.91E-03	7.48%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	1.05E-02	2.00E-01	5.25E-02	3.30E-01	3.18E-02	22.17%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.63E+02	6.35E-04	7.89E+02	2.12E-04	0.27%
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	2.04E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-07	0.00E+00	0.00E+00	0.00E+00	1.44E-07	4.58E+00	3.15E-08	9.16E+00	1.58E-08	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	3.19E-03	2.10E-01	1.52E-02	2.10E+00	1.52E-03	6.41%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E+00	0.00E+00	0.00E+00	0.00E+00	2.60E+00	1.60E+02	1.62E-02	3.20E+02	8.12E-03	6.85%

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Table O-147
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	1.11E-09	0.00E+00	0.00E+00	2.43E-08	0.00E+00	3.53E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-08	NA	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	2.59E+00	0.00E+00	0.00E+00	1.17E+01	0.00E+00	4.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+01	NA	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.54E-02	0.00E+00	0.00E+00	1.15E-01	NA	1.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-01	NA	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	1.06E-03	0.00E+00	5.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-03	NA	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	1.24E+00	9.22E-01	9.22E-01	0.00E+00	3.40E-05	0.00E+00	0.00E+00	2.72E-04	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-04	NA	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	4.60E-01	1.49E-01	1.49E-01	0.00E+00	1.70E-03	0.00E+00	0.00E+00	8.94E-03	0.00E+00	5.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02	NA	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	6.00E-05	0.00E+00	0.00E+00	7.87E-03	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	7.93E-03	NA	NA	NA	NA	NA
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	7.75E-02	0.00E+00	0.00E+00	1.63E-01	0.00E+00	5.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-01	NA	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	1.17E+00			0.00E+00	1.27E-05	0.00E+00	0.00E+00	9.55E-06	NA	1.05E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.27E-04	NA	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	5.96E-02	1.01E-01	1.01E-01	0.00E+00	1.75E-03	0.00E+00	0.00E+00	4.07E-03	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-03	NA	NA	NA	NA	NA
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.80E-03	1.57E-04	0.00E+00	1.68E-01	3.30E-04	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-01	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	5.00E-01	1.95E-01	1.95E-01	0.00E+00	1.39E-04	0.00E+00	0.00E+00	6.25E-04	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-03	NA	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.00E-01	4.76E-03	0.00E+00	9.33E+00	1.00E-02	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	4.89E-03	0.00E+00	0.00E+00	1.03E-02	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-02	NA	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.57E-01	4.51E-01	4.51E-01	0.00E+00	8.17E-03	0.00E+00	0.00E+00	6.15E-02	0.00E+00	4.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	NA	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00	0.00%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00	0.0%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00	0.0%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00	0.0%
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00	0.0%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.000889	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.593051

Table O-148
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	1.11E-09	0.00E+00	0.00E+00	5.18E-09	0.00E+00	3.01E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E-09	NA	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	1.88E+00	0.00E+00	0.00E+00	8.45E+00	0.00E+00	1.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E+01	NA	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.97E-02	0.00E+00	0.00E+00	8.86E-02	NA	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-01	NA	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	3.60E-05	0.00E+00	0.00E+00	1.68E-04	0.00E+00	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	NA	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.40E+00	6.72E-01	6.72E-01	0.00E+00	2.57E-05	0.00E+00	0.00E+00	1.54E-05	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	NA	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	1.09E+01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.54E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	5.20E-01	8.97E-02	8.97E-02	0.00E+00	1.39E-03	0.00E+00	0.00E+00	2.17E-03	0.00E+00	5.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-03	NA	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	4.00E-05	0.00E+00	0.00E+00	1.57E-03	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	1.61E-03	NA	NA	NA	NA	NA
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	5.50E-02	0.00E+00	0.00E+00	2.31E-02	0.00E+00	3.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	NA	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	1.37E+00			0.00E+00	9.18E-06	0.00E+00	0.00E+00	6.89E-06	NA	8.78E-05	NA	0.00E+00	0.00E+00	0.00E+00	1.04E-04	NA	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.34E-02	8.71E-02	8.71E-02	0.00E+00	1.37E-03	0.00E+00	0.00E+00	6.66E-04	0.00E+00	6.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-03	NA	NA	NA	NA	NA
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.50E-04	9.45E-05	0.00E+00	1.71E-02	3.97E-05	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.84E-01	1.51E-01	1.51E-01	0.00E+00	1.00E-04	0.00E+00	0.00E+00	4.52E-04	0.00E+00	5.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	NA	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	5.75E-02	4.10E-03	0.00E+00	1.51E+00	1.72E-03	0.00E+00	6.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	4.12E-03	0.00E+00	0.00E+00	1.73E-03	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-03	NA	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	9.28E-01	1.84E-01	1.84E-01	0.00E+00	6.82E-03	0.00E+00	0.00E+00	1.32E-02	0.00E+00	4.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-02	NA	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00	0.00%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00	0.0%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00	0.0%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00	0.0%
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00	0.0%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{n} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.000889	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range

Table O-149
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	1.64E-08	0.00E+00	0.00E+00	6.50E-06	4.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-06	1.40E-05	4.95E-01	1.40E-04	4.95E-02	1.49%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	2.80E-03	3.67E-02	2.80E-02	3.67E-03	0.11%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	5.80E-02	5.47E-03	5.80E-01	5.47E-04	0.02%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	2.80E-03	6.06E-02	2.80E-02	6.06E-03	0.18%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	2.14E+00	1.31E-05	1.07E+01	2.62E-06	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	3.84E+01	0.00E+00	0.00E+00	3.12E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E+03	1.10E+02	2.88E+01	3.29E+02	9.60E+00	86.55%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-03	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	4.10E-01	5.59E-04	1.23E+00	1.86E-04	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	1.80E-01	5.89E-04	1.80E+00	5.89E-05	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	1.80E-01	1.75E-03	1.80E+00	1.75E-04	0.01%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-04	1.80E-01	3.34E-03	1.80E+00	3.34E-04	0.01%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	1.80E-01	3.13E-04	1.80E+00	3.13E-05	0.00%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.77E-01	0.00E+00	0.00E+00	3.07E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E+01	2.08E+01	1.49E+00	4.17E+01	7.44E-01	4.49%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-03	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	7.20E-04	0.00E+00	0.00E+00	2.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-01	1.11E+00	2.57E-01	3.33E+00	8.58E-02	0.77%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	5.04E-04	0.00E+00	0.00E+00	7.27E-02	5.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.83E-02	1.45E+00	5.40E-02	2.00E+01	3.92E-03	0.16%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	2.14E+00	6.53E-06	1.07E+01	1.31E-06	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	1.00E+00	1.10E-03	5.00E+00	2.20E-04	0.00%
Chromium (hexavalent)																																	
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	2.14E+00	8.62E-06	1.07E+01	1.72E-06	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+00	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	2.52E-02	0.00E+00	0.00E+00	2.39E+00	4.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E+00	4.70E+01	5.24E-02	6.17E+01	3.99E-02	0.16%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	7.70E-02	1.74E-04	2.31E-01	5.80E-05	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	3.00E-01	6.62E-05	9.00E-01	2.21E-05	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	7.19E-04	0.00E+00	0.00E+00	0.00E+00	NA	1.56E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-02	1.13E+00	1.44E-02	1.13E+01	1.44E-03	0.04%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	1.15E+00	0.00E+00	0.00E+00	4.36E+01	9.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E+01	9.77E+02	4.68E-02	9.77E+03	4.68E-03	0.14%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	4.50E-01	4.48E-03	9.00E-01	2.24E-03	0.01%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	1.89E-04	0.00E+00	0.00E+00	2.56E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.74E-03	6.40E-03	4.29E-01	6.40E-02	4.29E-02	1.29%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-05	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	2.60E-02	0.00E+00	0.00E+00	1.09E+00	1.59E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+00	7.74E+01	1.65E-02	1.07E+02	1.19E-02	0.05%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.16E-02	2.33E-03	0.00E+00	0.00E+00	8.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	2.14E+00	5.94E-06	1.07E+01	1.19E-06	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	6.73E+00	9.41E-06	6.73E+01	9.41E-07	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-02	6.73E+00	4.41E-03	6.73E+01	4.41E-04	0.01%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	6.50E+01	2.32E-05	1.30E+02	1.16E-05	0.00%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	2.06E-03	0.00E+00	0.00E+00	1.67E-01	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-01	1.80E+00	9.54E-02	5.40E+00	3.18E-02	0.29%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	NA	NA	NA	NA	NA
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.20E+00	7.06E-02	0.00E+00	0.00E+00	2.68E+00	1.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	2.14E+00	1.06E-05	1.07E+01	2.11E-06	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	7.25E-02	0.00E+00	0.00E+00	2.75E+00	6.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E+00	1.14E+01	2.48E-01	3.42E+01	8.27E-02	0.75%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	1.21E-01	0.00E+00	0.00E+00	1.65E+01	1.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+01	1.45E+01	1.15E+00	1.31E+02	1.28E-01	3.47%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.5E-05		8.9E-06	0.00%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.0E-01		1.0E-02	0.3%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.6E-03		7.9E-04	0.0%
**Phthalates (bis-2ethylhexyl and butylbenzyl) E

Table O-150
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	1.64E-08	0.00E+00	0.00E+00	1.39E-06	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-06	1.40E-05	1.12E-01	1.40E-04	1.12E-02	0.49%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	2.80E-03	1.21E-02	2.80E-02	1.21E-03	0.05%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	5.80E-02	2.27E-03	5.80E-01	2.27E-04	0.01%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-05	2.80E-03	1.67E-02	2.80E-02	1.67E-03	0.07%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	2.14E+00	6.33E-06	1.07E+01	1.27E-06	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	2.78E+01	0.00E+00	0.00E+00	2.26E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+03	1.10E+02	2.09E+01	3.29E+02	6.96E+00	90.97%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-04	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	4.10E-01	2.68E-04	1.23E+00	8.94E-05	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	1.80E-01	2.89E-04	1.80E+00	2.89E-05	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	1.80E-01	8.14E-04	1.80E+00	8.14E-05	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	1.80E-01	1.05E-03	1.80E+00	1.05E-04	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	1.80E-01	1.68E-04	1.80E+00	1.68E-05	0.00%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.92E-01	0.00E+00	0.00E+00	2.37E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E+01	2.08E+01	1.15E+00	4.17E+01	5.76E-01	5.03%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	5.34E-04	0.00E+00	0.00E+00	4.51E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-02	1.11E+00	4.11E-02	3.33E+00	1.37E-02	0.18%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	3.81E-04	0.00E+00	0.00E+00	4.13E-03	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-03	1.45E+00	6.34E-03	2.00E+01	4.60E-04	0.03%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-06	2.14E+00	3.47E-06	1.07E+01	6.94E-07	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	1.00E+00	9.90E-04	5.00E+00	1.98E-04	0.00%
Chromium (hexavalent)																																
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	2.14E+00	4.26E-06	1.07E+01	8.51E-07	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	2.06E-02	0.00E+00	0.00E+00	5.81E-01	4.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-01	4.70E+01	1.38E-02	6.17E+01	1.05E-02	0.06%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	7.70E-02	9.29E-05	2.31E-01	3.10E-05	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-06	3.00E-01	3.30E-05	9.00E-01	1.10E-05	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-06	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	4.79E-04	0.00E+00	0.00E+00	0.00E+00	NA	1.15E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	1.13E+00	1.06E-02	1.13E+01	1.06E-03	0.05%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	8.15E-01	0.00E+00	0.00E+00	6.19E+00	8.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E+00	9.77E+02	8.07E-03	9.77E+03	8.07E-04	0.04%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-03	4.50E-01	4.33E-03	9.00E-01	2.17E-03	0.02%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	1.36E-04	0.00E+00	0.00E+00	1.84E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.98E-03	6.40E-03	3.09E-01	6.40E-02	3.09E-02	1.35%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	2.03E-02	0.00E+00	0.00E+00	1.78E-01	3.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-01	7.74E+01	2.98E-03	1.07E+02	2.15E-03	0.01%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.79E-03	1.40E-03	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-02	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	2.14E+00	3.32E-06	1.07E+01	6.64E-07	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	6.73E+00	1.49E-03	6.73E+01	1.49E-04	0.01%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.09E-04	6.50E+01	1.68E-06	1.30E+02	8.40E-07	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	1.49E-03	0.00E+00	0.00E+00	1.21E-01	2.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-01	1.80E+00	6.92E-02	5.40E+00	2.31E-02	0.30%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-03	NA	NA	NA	NA	NA
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.89E-01	6.08E-02	0.00E+00	0.00E+00	4.61E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	2.14E+00	5.07E-06	1.07E+01	1.01E-06	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	6.11E-02	0.00E+00	0.00E+00	4.64E-01	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-01	1.14E+01	4.63E-02	3.42E+01	1.54E-02	0.20%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	1.01E-01	0.00E+00	0.00E+00	3.54E+00	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E+00	1.45E+01	2.58E-01	1.31E+02	2.86E-02	1.13%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.2E-05	4.5E-06	0.00%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.1E-02	3.1E-03	0.1%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.6E-03	3.2E-04	0.0%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.1E-02	1.4E-02	0.2%
Aldrin/Dieldrin/Endrin EEQ:	1.3E-04	4.2E-05	0.0%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes

Table O-151
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	0.00E+00	5.07E-08	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	1.40E-05	7.77E-01	1.40E-04	7.77E-02	11.04%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	2.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-03	2.80E-03	9.65E-01	2.80E-02	9.65E-02	13.71%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	8.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-03	5.80E-02	1.44E-01	5.80E-01	1.44E-02	2.04%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	4.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-03	2.80E-03	1.59E+00	2.80E-02	1.59E-01	22.61%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.40E-06	0.00E+00	0.00E+00	3.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-04	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.83E-06	0.00E+00	0.00E+00	7.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-04	2.14E+00	3.44E-04	1.07E+01	6.88E-05	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+02	0.00E+00	3.29E+02	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-02	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	5.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-03	4.10E-01	1.47E-02	1.23E+00	4.90E-03	0.21%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-03	1.80E-01	1.55E-02	1.80E+00	1.55E-03	0.22%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.28E-05	0.00E+00	0.00E+00	8.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-03	1.80E-01	4.60E-02	1.80E+00	4.60E-03	0.65%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-02	1.80E-01	8.78E-02	1.80E+00	8.78E-03	1.25%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	1.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-03	1.80E-01	8.22E-03	1.80E+00	8.22E-04	0.12%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.73E-04	0.00E+00	0.00E+00	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	4.93E-03	0.00E+00	0.00E+00	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	1.45E+00	9.51E-02	2.00E+01	6.90E-03	1.35%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.41E-06	0.00E+00	0.00E+00	3.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-04	2.14E+00	1.71E-04	1.07E+01	3.43E-05	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.57E-01	0.00E+00	0.00E+00	2.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-01	1.00E+00	1.86E-01	5.00E+00	3.72E-02	2.64%
Chromium (hexavalent)																																
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.18E-06	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-04	2.14E+00	2.26E-04	1.07E+01	4.53E-05	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	0.00E+00	9.54E-02	0.00E+00	0.00E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	4.70E+01	2.77E-02	6.17E+01	2.11E-02	0.39%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-06	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	7.70E-02	4.57E-03	2.31E-01	1.52E-03	0.06%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	3.53E-06	0.00E+00	0.00E+00	5.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	3.00E-01	1.74E-03	9.00E-01	5.80E-04	0.02%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.83E-06	0.00E+00	0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	1.29E+02	0.00E+00	0.00E+00	9.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E+02	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	3.00E-04	0.00E+00	2.29E+00	0.00E+00	NA	4.07E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01	33.87%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	2.55E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E+01	9.77E+02	3.84E-02	9.77E+03	3.84E-03	0.55%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	7.64E-04	0.00E+00	0.00E+00	5.26E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-02	4.50E-01	1.19E-01	9.00E-01	5.93E-02	1.68%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.38E-06	0.00E+00	0.00E+00	6.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.12E-02	0.00E+00	0.00E+00	4.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E+00	7.74E+01	5.47E-02	1.07E+02	3.96E-02	0.78%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-03	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.26E-06	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	2.14E+00	1.56E-04	1.07E+01	3.12E-05	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	1.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-03	6.73E+00	2.47E-04	6.73E+01	2.47E-05	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-01	6.73E+00	1.15E-01	6.73E+01	1.15E-02	1.64%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.59E-03	0.00E+00	0.00E+00	3.94E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-02	6.50E+01	6.61E-04	1.30E+02	3.31E-04	0.01%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	5.30E-03	0.00E+00	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-02	1.80E+00	3.63E-02	5.40E+00	1.21E-02	0.52%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	4.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-01	NA	NA	NA	NA	NA
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.00E-01	0.00E+00	2.95E+00	0.00E+00	0.00E+00	3.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.90E-06	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-04	2.14E+00	2.78E-04	1.07E+01	5.55E-05	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	1.97E-01	0.00E+00	0.00E+00	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-01	1.14E+01	3.19E-02	3.42E+01	1.06E-02	0.45%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	7.56E-01	0.00E+00	0.00E+00	3.49E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E+00	1.45E+01	2.93E-01	1.31E+02	3.24E-02	4.16%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.2E-03	2.4E-04	0.02%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.7E+00	2.7E-01	38.4%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.7E-01	2.1E-02	2.4%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00	0.0%
Aldrin/Dieldrin/Endrin EEQ:	6.3E-03	2.1E-03	0.1%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
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Table O-152
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	0.00E+00	4.09E-08	0.00E+00	0.00E+00	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-06	1.40E-05	3.12E-01	1.40E-04	3.12E-02	8.31%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	8.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-04	2.80E-03	3.19E-01	2.80E-02	3.19E-02	8.52%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.98E-05	0.00E+00	0.00E+00	3.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-03	5.80E-02	6.00E-02	5.80E-01	6.00E-03	1.60%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	1.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	2.80E-03	4.41E-01	2.80E-02	4.41E-02	11.78%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.26E-06	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.05E-06	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	2.14E+00	1.67E-04	1.07E+01	3.34E-05	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+02	0.00E+00	3.29E+02	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-02	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	2.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-03	4.10E-01	7.08E-03	1.23E+00	2.36E-03	0.19%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-03	1.80E-01	7.64E-03	1.80E+00	7.64E-04	0.20%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-03	1.80E-01	2.15E-02	1.80E+00	2.15E-03	0.57%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	5.23E-05	0.00E+00	0.00E+00	4.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03	1.80E-01	2.77E-02	1.80E+00	2.77E-03	0.74%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	7.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-04	1.80E-01	4.44E-03	1.80E+00	4.44E-04	0.12%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.55E-04	0.00E+00	0.00E+00	4.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-02	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	3.88E-03	0.00E+00	0.00E+00	1.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-01	1.45E+00	8.69E-02	2.00E+01	6.30E-03	2.32%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.22E-06	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	2.14E+00	9.17E-05	1.07E+01	1.83E-05	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.42E-01	0.00E+00	0.00E+00	2.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	1.00E+00	1.67E-01	5.00E+00	3.35E-02	4.46%
Chromium (hexavalent) cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.72E-06	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	2.14E+00	1.12E-04	1.07E+01	2.25E-05	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	0.00E+00	8.38E-02	0.00E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	4.70E+01	2.67E-02	6.17E+01	2.03E-02	0.71%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.21E-06	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	7.70E-02	2.45E-03	2.31E-01	8.18E-04	0.07%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	3.00E-01	8.71E-04	9.00E-01	2.90E-04	0.02%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.48E-06	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	1.17E+02	0.00E+00	0.00E+00	4.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+02	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.00E-04	0.00E+00	1.70E+00	0.00E+00	NA	3.01E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	1.13E+00	1.77E+00	1.13E+01	1.77E-01	47.18%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00	2.31E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E+01	9.77E+02	3.46E-02	9.77E+03	3.46E-03	0.92%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	6.94E-04	0.00E+00	0.00E+00	5.09E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-02	4.50E-01	1.15E-01	9.00E-01	5.73E-02	3.06%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.70E-06	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	8.16E-02	0.00E+00	0.00E+00	8.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-01	7.74E+01	1.18E-02	1.07E+02	8.53E-03	0.31%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.19E-06	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	2.14E+00	8.77E-05	1.07E+01	1.75E-05	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.21E-06	0.00E+00	0.00E+00	6.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-04	6.73E+00	9.12E-05	6.73E+01	9.12E-06	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-01	6.73E+00	3.89E-02	6.73E+01	3.89E-03	1.04%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.89E-04	0.00E+00	0.00E+00	2.85E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	6.50E+01	5.91E-05	1.30E+02	2.95E-05	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	4.80E-03	0.00E+00	0.00E+00	5.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-02	1.80E+00	3.36E-02	5.40E+00	1.12E-02	0.90%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.67E-01	0.00E+00	0.00E+00	1.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-01	NA	NA	NA	NA	NA
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.88E-01	0.00E+00	1.67E+00	0.00E+00	0.00E+00	4.81E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.77E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.24E-06	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	2.14E+00	1.34E-04	1.07E+01	2.68E-05	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	1.86E-01	0.00E+00	0.00E+00	7.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-01	1.14E+01	2.29E-02	3.42E+01	7.62E-03	0.61%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	6.16E-01	0.00E+00	0.00E+00	2.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E+00	1.45E+01	2.38E-01	1.31E+02	2.64E-02	6.35%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	5.9E-04	1.2E-04	0.02%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	8.2E-01	8.2E-02	21.9%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.8E-02	8.5E-03	1.8%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00	0.0%
Aldrin/Dieldrin/Endrin EEQ:	3.3E-03	1.1E-03	0.1%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.

Table O-153
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	4.87E-08	0.00E+00	0.00E+00	2.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-06	1.40E-05	1.94E-01	1.40E-04	1.94E-02	1.30%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	1.14E+02	0.00E+00	0.00E+00	1.28E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+03	1.10E+02	1.27E+01	3.29E+02	4.24E+00	85.21%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.12E+00	0.00E+00	0.00E+00	1.26E+01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+01	2.08E+01	6.60E-01	4.17E+01	3.29E-01	4.42%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	2.14E-03	0.00E+00	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	1.11E+00	1.07E-01	3.33E+00	3.58E-02	0.72%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	1.49E-03	0.00E+00	0.00E+00	2.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-02	1.45E+00	2.16E-02	2.00E+01	1.57E-03	0.14%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Chromium (hexavalent)																																
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	7.48E-02	0.00E+00	0.00E+00	9.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+00	4.70E+01	2.25E-02	6.17E+01	1.71E-02	0.15%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	3.24E-04	0.00E+00	0.00E+00	5.51E-01	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-01	3.85E+00	1.43E-01	1.16E+01	4.77E-02	0.96%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	3.41E+00	0.00E+00	0.00E+00	1.79E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E+01	9.77E+02	2.18E-02	9.77E+03	2.18E-03	0.15%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00	0.00%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	5.59E-04	0.00E+00	0.00E+00	1.05E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.61E-03	6.40E-03	2.52E-01	6.40E-02	2.52E-02	1.68%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	7.71E-02	0.00E+00	0.00E+00	4.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-01	7.74E+01	6.78E-03	1.07E+02	4.91E-03	0.05%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.73E-03	6.90E-03	0.00E+00	1.18E+01	3.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E+01	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00	0.00%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00	0.00%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	6.10E-03	0.00E+00	0.00E+00	6.88E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-02	4.40E-01	1.70E-01	1.50E+00	4.99E-02	1.14%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.41E-01	2.10E-01	0.00E+00	6.53E+02	1.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.55E+02	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	2.15E-01	0.00E+00	0.00E+00	1.13E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E+00	1.14E+01	1.18E-01	3.42E+01	3.94E-02	0.79%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	3.59E-01	0.00E+00	0.00E+00	6.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E+00	1.45E+01	4.92E-01	1.31E+02	5.44E-02	3.29%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00		0.00%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00		0.0%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00		0.0%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.1E-01		3.6E-02 0.7%
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00		0.0%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-

Table O-154
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	3.95E-09	0.00E+00	0.00E+00	4.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.01E-08	1.40E-05	3.58E-03	1.40E-04	3.58E-04	0.43%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00	0.00%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00	0.00%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00	0.00%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	6.68E+00	0.00E+00	0.00E+00	7.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E+01	1.10E+02	7.47E-01	3.29E+02	2.49E-01	89.57%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00	0.00%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00	0.00%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	7.00E-02	0.00E+00	0.00E+00	7.89E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-01	2.08E+01	4.13E-02	4.17E+01	2.06E-02	4.95%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	1.28E-04	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	1.11E+00	1.47E-03	3.33E+00	4.89E-04	0.18%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	9.16E-05	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	1.45E+00	1.58E-04	2.00E+01	1.15E-05	0.02%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00	0.00%
Chromium (hexavalent)																																
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	4.95E-03	0.00E+00	0.00E+00	1.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-02	4.70E+01	5.17E-04	6.17E+01	3.94E-04	0.06%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00	0.00%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00	0.00%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.75E-05	0.00E+00	0.00E+00	8.88E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-03	3.85E+00	2.31E-03	1.16E+01	7.70E-04	0.28%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	1.96E-01	0.00E+00	0.00E+00	2.06E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-01	9.77E+02	4.11E-04	9.77E+03	4.11E-05	0.05%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00	0.00%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	3.27E-05	0.00E+00	0.00E+00	6.14E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.41E-05	6.40E-03	1.47E-02	6.40E-02	1.47E-03	1.76%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	4.88E-03	0.00E+00	0.00E+00	5.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-02	7.74E+01	1.40E-04	1.07E+02	1.01E-04	0.02%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.84E-04	3.36E-04	0.00E+00	9.69E-02	3.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-02	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00	0.00%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	3.57E-04	0.00E+00	0.00E+00	4.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03	4.40E-01	9.96E-03	1.50E+00	2.92E-03	1.19%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.52E-02	1.46E-02	0.00E+00	8.57E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	1.47E-02	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-02	1.14E+01	2.64E-03	3.42E+01	8.81E-04	0.32%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	2.43E-02	0.00E+00	0.00E+00	1.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-01	1.45E+01	9.79E-03	1.31E+02	1.08E-03	1.17%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00	0.00%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00	0.0%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00	0.0%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.5E-03	4.9E-04	0.2%
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00	0.0%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
B

Table O-155
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L	EEQ N
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.95E-06	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	0.00E+00	0.00E+00	2.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-09	7.96E-10	7.73E-09	1.40E-05	5.52E-04	1.40E-04	5.52E-05	0.22%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	1.40E-03	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	5.35E-06	3.68E-05	2.80E-03	1.31E-02	2.80E-02	1.31E-03	5.13%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	4.30E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	1.42E-05	9.78E-05	5.80E-02	1.69E-03	5.80E-01	1.69E-04	0.66%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.23E-03	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-05	1.23E-05	8.39E-05	2.80E-03	3.00E-02	2.80E-02	3.00E-03	11.69%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.87E-04	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-06	7.14E-07	4.92E-06	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.76E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	1.44E-06	9.89E-06	2.14E+00	4.62E-06	1.07E+01	9.24E-07	0.00%
Aluminum	0.00E+00	mg/L	1.63E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+02	0.00E+00	3.29E+02	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.37E-01	mg/kg				1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	3.51E-04	2.36E-03	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.07E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	1.17E-05	8.06E-05	4.10E-01	1.97E-04	1.23E+00	6.56E-05	0.08%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.42E-03	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.54E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	5.42E-06	3.73E-05	1.80E-01	2.07E-04	1.80E+00	2.07E-05	0.08%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.11E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-05	1.45E-05	9.97E-05	1.80E-01	5.54E-04	1.80E+00	5.54E-05	0.22%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	7.47E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	4.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	4.75E-05	3.24E-04	1.80E-01	1.80E-03	1.80E+00	1.80E-04	0.70%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	8.50E-04	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	3.24E-06	2.23E-05	1.80E-01	1.24E-04	1.80E+00	1.24E-05	0.05%
Barium	0.00E+00	mg/L	1.60E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	1.01E+03	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E+01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	6.80E-02	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	2.59E-04	1.79E-03	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	3.06E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	2.14E-01	mg/kg	3.84E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.81E+00	1.24E+00	9.52E-01	9.52E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-03	1.17E-03	8.12E-03	1.45E+00	5.60E-03	2.00E+01	4.06E-04	2.19%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.88E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	7.16E-07	4.93E-06	2.14E+00	2.30E-06	1.07E+01	4.60E-07	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.22E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	7.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-02	1.35E-02	9.83E-02	1.00E+00	9.83E-02	5.00E+00	1.97E-02	38.36%
Chromium (hexavalent)																																
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06	9.45E-07	6.51E-06	2.14E+00	3.04E-06	1.07E+01	6.08E-07	0.00%
Copper	0.00E+00	mg/L	1.07E+01	mg/kg	7.43E+00	mg/kg	1.00E+00	5.92E+03	5.25E+00	1.32E+00	4.60E-01	5.75E-01	5.75E-01	1.49E-01	1.49E-01	0.00E+00	0.00E+00	4.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-02	3.68E-03	2.92E-02	4.70E+01	6.21E-04	6.17E+01	4.73E-04	0.24%
Dieldrin	0.00E+00	mg/L	1.86E-04	mg/kg	1.86E-04	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-06	7.08E-07	4.88E-06	7.70E-02	6.33E-05	2.31E-01	2.11E-05	0.02%
Endrin	0.00E+00	mg/L	2.75E-04	mg/kg	2.75E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-06	1.11E-06	7.63E-06	1.00E-02	7.63E-04	1.00E-01	7.63E-05	0.30%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-04	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-06	8.41E-07	5.79E-06	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	0.00E+00	0.00E+00	6.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	6.87E-02	6.50E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	3.00E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.71E-04	0.00E+00	1.07E-01	3.52E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	4.49E-02	7.84E-03	1.95E-01	3.85E+00	5.07E-02	1.16E+01	1.69E-02	19.80%
Manganese	0.00E+00	mg/L	4.88E+02	mg/kg	9.35E+02	mg/kg	1.00E+00	2.00E+03	2.10E+00	2.21E-01	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	0.00E+00	0.00E+00	5.63E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-01	2.97E-02	7.63E-01	9.77E+02	7.81E-04	9.77E+03	7.81E-05	0.30%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.95E-02	mg/kg	1.00E+00		7.50E-01	7.16E+00	NA	1.35E+00	1.35E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.16E-04	2.03E-05	1.72E-04	4.50E-01	3.83E-04	9.00E-01	1.92E-04	0.15%
Mercury (methyl)	0.00E+00	mg/L	8.01E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.17E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.41E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	1.30E-06	8.97E-06	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.10E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.65E-02	6.65E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	2.38E-03	2.03E-02	7.74E+01	2.62E-04	1.07E+02	1.89E-04	0.10%
Nitrate	9.00E-02	mg/L	9.88E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.12E-03	0.00E+00	0.00E+00	7.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-01	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-06	6.71E-07	4.62E-06	2.14E+00	2.16E-06	1.07E+01	4.32E-07	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	8.83E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	3.37E-06	2.32E-05	6.73E+00	3.45E-06	6.73E+01	3.45E-07	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	4.23E-01	mg/kg				1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-03	1.61E-03	1.09E-02	6.73E+00	1.61E-03	6.73E+01	1.61E-04	0.63%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.80E-01	mg/kg	1.00E+00			1.14E+00	NA	1.88E+01	1.88E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	8.83E-04	1.54E-04	1.21E-03	6.50E+01	1.85E-05	1.30E+02	9.27E-06	0.01%
Selenium	0.00E+00	mg/L	8.74E-01	mg/kg	4.13E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.18E+00	1.06E+00	4.64E-01	4.64E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-03	2.66E-04	2.04E-03	4.40E-01	4.64E-03	1.50E+00	1.36E-03	1.81%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	8.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-02	7.85E-03	6.14E-02	NA	NA	NA	NA	NA
Sulfate	5.00E+00	mg/L	3.00E+01	mg/kg	2.30E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.84E-01	0.00E+00	1.38E-01	4.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-01	1.27E-01	4.31E+01	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	3.04E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	1.16E-06	7.98E-06	2.14E+00	3.73E-06	1.07E+01	7.45E-07	0.00%
Vanadium	0.00E+00	mg/L	3.08E+01	mg/kg	1.53E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	0.00E+00	0.00E+00	9.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-03	3.01E-04	1.13E-02	1.14E+01	9.87E-04	3.42E+01	3.29E-04	0.39%
Zinc	0.00E+00	mg/L	5.15E+01	mg/kg	5.89E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	8.57E-01	8.08E-01	8.08E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	3.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-01	8.79E-02	6.27E-01	1.45E+01	4.32E-02	1.31E+02	4.78E-03	16.87%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.6E-05	3.2E-06	0.01%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.5E-02	4.5E-03	17.5%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.9E-03	3.3E-04	1.1%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00	0.0%
Aldrin/Dieldrin/Endrin EEQ:	8.3E-04	9.7E-05	0.3%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/

Table O-156
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Low Impact Sub-Area/Saunders Branch Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		Percent Contribution to
							----------Unitless----------									mg/kg-d															
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00	0.00%
2,3,7,8-TCDD TEQ	0.00E+00	mg/L	6.98E-06	mg/kg	3.18E-06	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	0.00E+00	0.00E+00	1.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-09	4.98E-10	5.27E-09	1.40E-05	3.76E-04	1.40E-04	3.76E-05	0.37%
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00	0.00%
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	8.00E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	2.32E-06	1.61E-05	2.80E-03	5.75E-03	2.80E-02	5.75E-04	5.67%
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	3.10E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-05	9.67E-06	6.69E-05	5.80E-02	1.15E-03	5.80E-01	1.15E-04	1.14%
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.07E-03	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	6.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	3.14E-06	2.17E-05	2.80E-03	7.77E-03	2.80E-02	7.77E-04	7.66%
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.76E-04	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.06E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-06	5.11E-07	3.54E-06	NA	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	3.15E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.90E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-06	9.15E-07	6.34E-06	2.14E+00	2.96E-06	1.07E+01	5.93E-07	0.00%
Aluminum	0.00E+00	mg/L	1.18E+04	mg/kg	0.00E+00	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+02	0.00E+00	3.29E+02	0.00E+00	0.00%
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	5.09E-01	mg/kg				3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	1.26E-03	NA	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.55E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	7.41E-06	5.14E-05	4.10E-01	1.25E-04	1.23E+00	4.18E-05	0.12%
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	1.21E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.27E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	3.51E-06	2.43E-05	1.80E-01	1.35E-04	1.80E+00	1.35E-05	0.13%
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	3.32E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	5.47E-06	3.88E-05	1.80E-01	2.15E-04	1.80E+00	2.15E-05	0.21%
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	4.07E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	2.25E-05	1.54E-04	1.80E-01	8.55E-04	1.80E+00	8.55E-05	0.84%
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	7.92E-04	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	2.30E-06	1.59E-05	1.80E-01	8.86E-05	1.80E+00	8.86E-06	0.09%
Barium	0.00E+00	mg/L	1.24E+02	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+01	4.50E+00	NA	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E+01	0.00E+00	4.17E-01	0.00E+00	0.00%
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	5.10E-02	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-04	1.48E-04	1.03E-03	NA	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.27E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00	0.00%
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.62E-01	mg/kg	3.02E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	3.27E+00	1.40E+00	1.06E+00	1.06E+00	6.72E-01	6.72E-01	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-03	6.74E-04	4.71E-03	1.45E+00	3.25E-03	2.00E+01	2.36E-04	3.21%
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.73E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.04E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-06	5.02E-07	3.48E-06	2.14E+00	1.63E-06	1.07E+01	3.25E-07	0.00%
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	6.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-02	3.09E-03	2.74E-02	1.00E+00	2.74E-02	5.00E+00	5.48E-03	27.04%
Chromium (hexavalent)																																
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.28E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	6.15E-07	4.27E-06	2.14E+00	1.99E-06	1.07E+01	3.99E-07	0.00%
Copper	0.00E+00	mg/L	8.76E+00	mg/kg	6.53E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.45E+00	5.20E-01	6.22E-01	6.22E-01	8.97E-02	8.97E-02	0.00E+00	0.00E+00	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-02	1.94E-03	1.70E-02	4.70E+01	3.61E-04	6.17E-01	2.75E-04	0.36%
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	1.72E-04	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	4.99E-07	3.46E-06	7.70E-02	4.49E-05	2.31E-01	1.50E-05	0.04%
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-06	9.56E-07	6.58E-06	1.00E-02	6.58E-04	1.00E-01	6.58E-05	0.65%
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00	0.00%
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00	0.00%
Hexachlorobenzene	0.00E+00	mg/L	1.93E-04	mg/kg	1.93E-04	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06	5.60E-07	3.89E-06	NA	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Iron	0.00E+00	mg/L	0.00E+00	mg/kg	9.10E+03	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	0.00E+00	0.00E+00	5.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-01	5.30E-02	5.83E+00	NA	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	2.00E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.14E-04	0.00E+00	7.96E-02	7.01E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	2.92E-02	5.10E-03	1.21E-01	3.85E+00	3.14E-02	1.16E+01	1.05E-02	31.00%
Manganese	0.00E+00	mg/L	3.46E+02	mg/kg	8.30E+02	mg/kg	1.00E+00	2.50E+02	4.20E-01	2.26E-01	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	0.00E+00	0.00E+00	4.99E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	2.08E-02	6.40E-01	9.77E+02	6.55E-04	9.77E+03	6.55E-05	0.65%
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	5.40E-02	mg/kg	1.00E+00		7.50E-01	7.64E+00	NA	1.41E+00	1.41E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	3.25E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	9.37E-05	1.64E-05	1.43E-04	4.50E-01	3.17E-04	9.00E-01	1.58E-04	0.31%
Mercury (methyl)	0.00E+00	mg/L	5.78E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.37E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00	0.00%
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.88E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.74E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-06	8.37E-07	5.81E-06	NA	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.62E+00	mg/kg	6.36E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.34E-02	6.84E-02	6.84E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	1.83E-03	1.62E-02	7.74E+01	2.09E-04	1.07E+02	1.51E-04	0.21%
Nitrate	3.25E-02	mg/L	5.95E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.85E-03	0.00E+00	0.00E+00	7.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-02	NA	NA	NA	NA	NA
Nitrate/Nitrite	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E-04	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-06	4.95E-07	3.43E-06	2.14E+00	1.60E-06	1.07E+01	3.21E-07	0.00%
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg				8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00	0.00%
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	5.62E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	1.63E-06	1.13E-05	6.73E+00	1.68E-06	6.73E+01	1.68E-07	0.00%
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	2.48E-01	mg/kg				8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	7.18E-04	4.83E-03	6.73E+00	7.18E-04	6.73E+01	7.18E-05	0.71%
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	7.70E-02	mg/kg	1.00E+00			3.00E-01	NA	3.19E+01	3.19E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.64E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.62E-04	2.82E-05	2.36E-04	6.50E+01	3.64E-06	1.30E+02	1.82E-06	0.00%
Selenium	0.00E+00	mg/L	6.32E-01	mg/kg	3.74E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.21E+00	8.19E-01	4.59E-01	4.59E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	1.87E-04	1.48E-03	4.40E-01	3.37E-03	1.50E+00	9.88E-04	3.32%
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00	0.00%
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	1.30E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	7.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-02	4.76E-03	3.99E-02	NA	NA	NA	NA	NA
Sulfate	2.88E+00	mg/L	2.58E+01	mg/kg	1.30E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.63E-01	0.00E+00	7.82E-02	6.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-01	4.77E-02	7.33E+00	NA	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00	0.00%
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	2.53E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.52E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-06	7.33E-07	5.08E-06	2.14E+00	2.38E-06	1.07E+01	4.75E-07	0.00%
Vanadium	0.00E+00	mg/L	2.60E+01	mg/kg	1.45E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	0.00E+00	0.00E+00	8.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-03	2.63E-04	1.05E-02	1.14E+01	9.19E-04	3.42E+01	3.06E-04	0.91%
Zinc	0.00E+00	mg/L	4.30E+01	mg/kg	4.79E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	9.28E-01	8.84E-01	8.84E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	2.89E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-01	2.92E-02	2.26E-01	1.45E+01	1.56E-02	1.31E+02	1.72E-03	15.35%

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00	0.0%
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.1E-05	2.1E-06	0.01%
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-02	1.5E-03	14.5%
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.4E-03	1.7E-04	1.4%
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00	0.0%
Aldrin/Dieldrin/Endrin EEQ:	7.0E-04	8.1E-05	0.7%

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW

Table O-157
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF
							-------Unitless-------								
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01		
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA		
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03							
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01		
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00						
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01

Chemical	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	5.12E+00	0.00E+00	3.51E+00	0.00E+00	0.00E+00	0.00E+00	8.65E+00	2.68E+00	3.23E+00	1.33E+01	6.50E-01
1,3-Dinitrobenzene	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	1.45E-01	0.00E+00	5.88E-02	0.00E+00	0.00E+00	0.00E+00	2.04E-01	1.13E-01	1.81E+00	2.64E-01	7.74E-01
2,3,7,8-TCDD TEQ	3.66E-09	0.00E+00	1.36E-07	0.00E+00	0.00E+00	7.55E-05	0.00E+00	1.54E-08	0.00E+00	0.00E+00	0.00E+00	7.57E-05	1.00E-06	7.57E+01	1.00E-05	7.57E+00
2,4,6-Trinitrotoluene	0.00E+00	0.00E+00	9.11E-01	0.00E+00	0.00E+00	8.20E+00	0.00E+00	7.28E+00	0.00E+00	0.00E+00	0.00E+00	1.64E+01	2.00E-01	8.20E+01	3.00E-01	5.46E+01
2,4-Dinitrotoluene	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	3.65E-03	0.00E+00	1.58E-01	0.00E+00	0.00E+00	0.00E+00	1.64E-01	2.00E-01	8.21E-01	1.50E+00	1.09E-01
2,6-Dinitrotoluene	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	3.90E-02	0.00E+00	2.64E-01	0.00E+00	0.00E+00	0.00E+00	3.07E-01	2.00E-01	1.54E+00	6.00E-01	5.12E-01
4,4'-DDD	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	4.43E-04	0.00E+00	2.28E-06	0.00E+00	0.00E+00	0.00E+00	4.46E-04	8.00E-01	5.58E-04	4.00E+00	1.12E-04
4,4'-DDE	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	1.49E-03	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-03	8.00E-01	1.94E-03	4.00E+00	3.88E-04
4,4'-DDT	0.00E+00	0.00E+00	5.29E-07	0.00E+00	0.00E+00	2.13E-04	0.00E+00	1.06E-06	0.00E+00	0.00E+00	0.00E+00	2.14E-04	8.00E-01	2.68E-04	4.00E+00	5.36E-05
Aldrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	0.00E+00	5.38E-07	0.00E+00	0.00E+00	2.12E-04	0.00E+00	5.42E-07	0.00E+00	0.00E+00	0.00E+00	2.13E-04	4.58E+00	4.65E-05	9.16E+00	2.32E-05
Aluminum	1.83E+00	0.00E+00	1.67E+01	0.00E+00	0.00E+00	4.94E+01	0.00E+00	9.62E-01	0.00E+00	0.00E+00	0.00E+00	6.89E+01	1.93E+00	3.57E+01	1.93E+01	3.57E+00
Antimony	0.00E+00	0.00E+00	4.76E-03	0.00E+00	0.00E+00	1.36E-01	0.00E+00	8.33E-03	0.00E+00	0.00E+00	0.00E+00	1.49E-01	1.25E-01	1.19E+00	1.25E+00	1.19E-01
Aroclor 1242	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	2.45E-03	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	2.48E-03	6.85E-02	3.62E-02	6.85E-01	3.62E-03
Aroclor 1248	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	4.49E-03	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	4.50E-03	6.80E-02	6.62E-02	6.80E-01	6.62E-03
Aroclor 1260	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	2.10E-03	0.00E+00	5.60E-07	0.00E+00	0.00E+00	0.00E+00	2.11E-03	6.80E-02	3.10E-02	6.80E-01	3.10E-03
Aroclor 1268	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	0.00E+00	1.87E+00	0.00E+00	0.00E+00	5.08E-01	0.00E+00	3.42E+01	0.00E+00	0.00E+00	0.00E+00	3.66E+01	5.10E+00	7.18E+00	1.98E+01	1.85E+00
Benzoic Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	7.46E-04	0.00E+00	9.64E-04	0.00E+00	0.00E+00	5.58E-02	0.00E+00	2.00E-02	0.00E+00	0.00E+00	0.00E+00	7.75E-02	1.00E+00	7.75E-02	1.00E+01	7.75E-03
Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	0.00E+00	2.94E-02	0.00E+00	0.00E+00	1.39E-02	0.00E+00	3.52E-01	0.00E+00	0.00E+00	0.00E+00	3.96E-01	2.74E+03	1.45E-04	2.74E+04	1.45E-05
Chromium (hexavalent)	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	1.98E-04	0.00E+00	5.00E-03	0.00E+00	0.00E+00	0.00E+00	5.62E-03	3.28E+00	1.71E-03	1.31E+01	4.28E-04
cis-Nonachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	3.54E-03	0.00E+00	2.54E-02	0.00E+00	0.00E+00	5.26E-01	0.00E+00	2.51E-01	0.00E+00	0.00E+00	0.00E+00	8.06E-01	1.17E+01	6.89E-02	1.51E+01	5.32E-02
Dieldrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	0.00E+00	8.13E-07	0.00E+00	0.00E+00	3.10E-04	0.00E+00	7.77E-07	0.00E+00	0.00E+00	0.00E+00	3.12E-04	9.20E-02	3.39E-03	9.20E-01	3.39E-04
gamma-Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	1.51E-01	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	1.51E-01	8.00E-02	1.89E+00	2.90E-01	5.22E-01
HMX	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	8.42E-01	0.00E+00	5.54E-01	0.00E+00	0.00E+00	0.00E+00	1.40E+00	1.00E+00	1.40E+00	5.00E+00	2.80E-01
Iron	1.79E+00	0.00E+00	2.37E+01	0.00E+00	0.00E+00	4.63E+01	0.00E+00	2.37E+00	0.00E+00	0.00E+00	0.00E+00	7.42E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	1.55E-03	0.00E+00	3.30E-01	0.00E+00	NA	1.53E-01	NA	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.08E-01	8.00E+00	8.85E-02	8.00E+01	8.85E-03
Manganese	1.36E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	8.80E+01	1.55E-03	2.84E+02	4.80E-04
Mercury (inorganic)	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.42E-02	NA	5.17E-03	0.00E+00	0.00E+00	0.00E+00	2.96E-02	1.32E+01	2.24E-03	3.96E+01	7.46E-04
Mercury (methyl)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	0.00E+00	6.53E-07	0.00E+00	0.00E+00	2.65E-04	0.00E+00	5.61E-07	0.00E+00	0.00E+00	0.00E+00	2.66E-04	7.00E-02	3.80E-03	7.00E-01	3.80E-04
Nickel	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	1.64E+00	0.00E+00	2.28E-02	0.00E+00	0.00E+00	0.00E+00	1.68E+00	4.00E+01	4.20E-02	8.00E+01	2.10E-02
Nitrate	2.60E-01	0.00E+00	1.99E-03	0.00E+00	0.00E+00	5.68E-02	0.00E+00	1.74E-02	0.00E+00	0.00E+00	0.00E+00	3.36E-01	5.07E+02	6.64E-04	1.13E+03	2.98E-04
Nitrate/Nitrite	2.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-02	5.07E+02	4.18E-05	1.13E+03	1.87E-05
Oxychlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	0.00E+00	6.51E-06	0.00E+00	0.00E+00	2.35E-03	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	2.38E-03	2.10E+00	1.14E-03	6.30E+00	3.79E-04
Pentachloroanisole	0.00E+00	0.00E+00	5.52E-07	0.00E+00	0.00E+00	2.10E-04	0.00E+00	4.62E-07	0.00E+00	0.00E+00	0.00E+00	2.11E-04	2.40E-01	8.78E-04	2.40E+00	8.78E-05
Pentachlorophenol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	6.98E-03	NA	1.57E-01	0.00E+00	0.00E+00	0.00E+00	1.64E-01	8.50E+00	1.93E-02	2.55E+01	6.43E-03
Selenium	0.00E+00	0.00E+00	1.25E-03	0.00E+00	0.00E+00	3.23E-02	0.00E+00	1.53E-02	0.00E+00	0.00E+00	0.00E+00	4.88E-02	2.00E-01	2.44E-01	3.30E-01	1.48E-01
Silver	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	0.00E+00	6.08E-02	0.00E+00	0.00E+00	4.22E-01	0.00E+00	5.32E-01	0.00E+00	0.00E+00	0.00E+00	1.02E+00	2.63E+02	3.86E-03	7.89E+02	1.29E-03
Sulfate	1.83E+00	0.00E+00	1.93E-01	0.00E+00	0.00E+00	5.49E+00	0.00E+00	1.69E+00	0.00E+00	0.00E+00	0.00E+00	9.20E+00	NA	NA	NA	NA
Thallium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	9.99E-03	0.00E+00	3.98E-02	0.00E+00	0.00E+00	8.75E-02	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	1.41E-01	2.10E-01	6.73E-01	2.10E+00	6.73E-02
Zinc	0.00E+00	0.00E+00	1.16E-01	0.00E+00	0.00E+00	1.39E+00	0.00E+00	2.28E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+00	1.60E+02	2.36E-02	3.20E+02	1.18E-02

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	8.4E+01	5.5E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	4.6E-05	2.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.8E-03	5.5E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-01	1.3E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	3.4E-03	3.4E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR}\left[\sum_{i=1}^{m}\left(\frac{IRi\,x\,Cij}{BW}\right)\right]\right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): [n] See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0.5	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	0.5	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0.0000408	kg/d
Sediment ingestion rate =	0	kg/d
Food ingestion rate =	0.00204	kg/d
Body weight =	0.022	kg
Home range =	0.0345946	acres
Water intake rate =	0.0066	L/d
Site Area =	486	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-158
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.56E-03	0.00E+00	0.00E+00	1.80E+00	0.00E+00	1.34E+00	0.00E+00	0.00E+00	0.00E+00	3.15E+00	2.68E+00	1.18E+00	1.33E+01	2.37E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	5.25E-02	0.00E+00	3.06E-02	0.00E+00	0.00E+00	0.00E+00	8.34E-02	1.13E-01	7.38E-01	2.64E-01	3.16E-01
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	3.20E-09	0.00E+00	5.87E-08	0.00E+00	0.00E+00	1.62E-05	0.00E+00	5.68E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-05	1.00E-06	1.62E+01	1.00E-05	1.62E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.59E-01	0.00E+00	0.00E+00	4.13E+00	0.00E+00	1.83E+00	0.00E+00	0.00E+00	0.00E+00	6.41E+00	2.00E-01	3.21E+01	3.00E-01	2.14E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	1.65E-03	0.00E+00	5.49E-02	0.00E+00	0.00E+00	0.00E+00	5.75E-02	2.00E-01	2.88E-01	1.50E+00	3.84E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	2.02E-02	0.00E+00	1.23E-01	0.00E+00	0.00E+00	0.00E+00	1.45E-01	2.00E-01	7.26E-01	6.00E-01	2.42E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.45E-07	0.00E+00	0.00E+00	1.89E-04	0.00E+00	5.91E-07	0.00E+00	0.00E+00	0.00E+00	1.90E-04	8.00E-01	2.38E-04	4.00E+00	4.76E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.74E-06	0.00E+00	0.00E+00	6.16E-04	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	6.28E-04	8.00E-01	7.85E-04	4.00E+00	1.57E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.68E-07	0.00E+00	0.00E+00	8.53E-05	0.00E+00	2.58E-07	0.00E+00	0.00E+00	0.00E+00	8.60E-05	8.00E-01	1.07E-04	4.00E+00	2.15E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.39E-07	0.00E+00	0.00E+00	9.98E-05	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	1.00E-04	4.58E+00	2.19E-05	9.16E+00	1.10E-05
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.25E+00	0.00E+00	1.29E+01	0.00E+00	0.00E+00	1.39E+01	0.00E+00	4.84E-01	0.00E+00	0.00E+00	0.00E+00	2.85E+01	1.93E+00	1.48E+01	1.93E+01	1.48E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	2.87E-02	0.00E+00	3.54E-03	0.00E+00	0.00E+00	0.00E+00	3.60E-02	1.25E-01	2.88E-01	1.25E+00	2.88E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	9.39E-04	0.00E+00	8.64E-07	0.00E+00	0.00E+00	0.00E+00	9.44E-04	6.85E-02	1.38E-02	6.85E-01	1.38E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.81E-06	0.00E+00	0.00E+00	1.83E-03	0.00E+00	6.98E-07	0.00E+00	0.00E+00	0.00E+00	1.83E-03	6.80E-02	2.70E-02	6.80E-01	2.70E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	8.84E-04	0.00E+00	5.78E-08	0.00E+00	0.00E+00	0.00E+00	8.87E-04	6.80E-02	1.30E-02	6.80E-01	1.30E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	9.89E-01	0.00E+00	0.00E+00	3.41E-01	0.00E+00	1.80E+01	0.00E+00	0.00E+00	0.00E+00	1.94E+01	5.10E+00	3.80E+00	1.98E+01	9.78E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	6.26E-04	0.00E+00	8.76E-04	0.00E+00	0.00E+00	5.39E-02	0.00E+00	1.90E-02	0.00E+00	0.00E+00	0.00E+00	7.44E-02	1.00E+00	7.44E-02	1.00E+01	7.44E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.68E-02	0.00E+00	0.00E+00	1.27E-02	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	6.69E-02	2.74E+03	2.44E-05	2.74E+04	2.44E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.80E-04	0.00E+00	0.00E+00	1.80E-04	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	9.50E-04	3.28E+00	2.89E-04	1.31E+01	7.23E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	2.79E-03	0.00E+00	2.03E-02	0.00E+00	0.00E+00	4.98E-01	0.00E+00	2.30E-01	0.00E+00	0.00E+00	0.00E+00	7.51E-01	1.17E+01	6.42E-02	1.51E+01	4.96E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.88E-07	0.00E+00	0.00E+00	1.29E-04	0.00E+00	4.03E-07	0.00E+00	0.00E+00	0.00E+00	1.30E-04	9.20E-02	1.42E-03	9.20E-01	1.42E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	6.31E-02	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	6.35E-02	8.00E-02	7.94E-01	2.90E-01	2.19E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	3.52E-01	0.00E+00	4.01E-01	0.00E+00	0.00E+00	0.00E+00	7.55E-01	1.00E+00	7.55E-01	5.00E+00	1.51E-01
Iron	4.16E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.25E+00	0.00E+00	2.08E+01	0.00E+00	0.00E+00	1.87E+01	0.00E+00	2.08E+00	0.00E+00	0.00E+00	0.00E+00	4.28E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.23E-03	0.00E+00	2.45E-01	0.00E+00	NA	1.13E-01	NA	1.89E-01	0.00E+00	0.00E+00	0.00E+00	5.49E-01	8.00E+00	6.86E-02	8.00E+01	6.86E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	9.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-02	8.80E+01	1.08E-03	2.84E+02	3.35E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	2.27E-02	NA	4.65E-03	0.00E+00	0.00E+00	0.00E+00	2.75E-02	1.32E+01	2.08E-03	3.96E+01	6.94E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.58E-07	0.00E+00	0.00E+00	1.07E-04	0.00E+00	3.94E-08	0.00E+00	0.00E+00	0.00E+00	1.08E-04	7.00E-02	1.54E-03	7.00E-01	1.54E-04
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	3.46E-01	0.00E+00	2.18E-02	0.00E+00	0.00E+00	0.00E+00	3.81E-01	4.00E+01	9.52E-03	8.00E+01	4.76E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.44E-01	0.00E+00	1.14E-03	0.00E+00	0.00E+00	8.52E-03	0.00E+00	5.96E-03	0.00E+00	0.00E+00	0.00E+00	1.59E-01	5.07E+02	3.14E-04	1.13E+03	1.41E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02	5.07E+02	3.28E-05	1.13E+03	1.47E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.94E-06	0.00E+00	0.00E+00	1.24E-03	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-03	2.10E+00	6.03E-04	6.30E+00	2.01E-04
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.16E-07	0.00E+00	0.00E+00	9.11E-05	0.00E+00	2.85E-07	0.00E+00	0.00E+00	0.00E+00	9.18E-05	2.40E-01	3.82E-04	2.40E+00	3.82E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	1.34E-03	NA	1.30E-01	0.00E+00	0.00E+00	0.00E+00	1.32E-01	8.50E+00	1.55E-02	2.55E+01	5.17E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	1.11E-03	0.00E+00	0.00E+00	2.96E-02	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	4.40E-02	2.00E-01	2.20E-01	3.30E-01	1.33E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.54E-02	0.00E+00	0.00E+00	9.88E-02	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	3.83E-01	2.63E+02	1.46E-03	7.89E+02	4.85E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.54E+00	0.00E+00	7.68E-02	0.00E+00	0.00E+00	5.76E-01	0.00E+00	4.03E-01	0.00E+00	0.00E+00	0.00E+00	2.60E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	7.92E-03	0.00E+00	3.51E-02	0.00E+00	0.00E+00	3.68E-02	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	8.30E-02	2.10E-01	3.95E-01	2.10E+00	3.95E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	9.13E-02	0.00E+00	0.00E+00	1.10E+00	0.00E+00	1.99E+00	0.00E+00	0.00E+00	0.00E+00	3.18E+00	1.60E+02	1.99E-02	3.20E+02	9.94E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	3.3E+01	2.2E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.2E-05	1.1E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-03	2.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	5.4E-02	5.4E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/

Table O-159
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	8.31E-01	0.00E+00	2.28E+00	0.00E+00	2.45E-02	0.00E+00	3.16E+00	2.68E+00	1.18E+00	1.33E+01	2.37E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	2.35E-02	0.00E+00	3.82E-02	0.00E+00	6.88E-04	0.00E+00	6.30E-02	1.13E-01	5.57E-01	2.64E-01	2.39E-01
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.00E-09	2.09E-08	1.73E-07	5.20E-06	1.46E-06	1.23E-05	0.00E+00	1.00E-08	0.00E+00	1.12E-08	0.00E+00	1.91E-05	1.00E-06	1.91E+01	1.00E-05	1.91E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.16E+00	0.00E+00	0.00E+00	1.33E+00	0.00E+00	4.73E+00	0.00E+00	1.42E+00	0.00E+00	8.64E+00	2.00E-01	4.32E+01	3.00E-01	2.88E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	0.00E+00	5.92E-04	0.00E+00	1.03E-01	0.00E+00	3.55E-03	0.00E+00	1.10E-01	2.00E-01	5.49E-01	1.50E+00	7.32E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.67E-03	0.00E+00	0.00E+00	6.33E-03	0.00E+00	1.71E-01	0.00E+00	6.95E-03	0.00E+00	1.90E-01	2.00E-01	9.51E-01	6.00E-01	3.17E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.45E-06	0.00E+00	0.00E+00	7.19E-05	0.00E+00	1.48E-06	0.00E+00	1.78E-06	0.00E+00	7.66E-05	8.00E-01	9.57E-05	4.00E+00	1.91E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	4.85E-06	0.00E+00	0.00E+00	2.42E-04	0.00E+00	3.84E-05	0.00E+00	5.13E-06	0.00E+00	2.90E-04	8.00E-01	3.63E-04	4.00E+00	7.25E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	6.73E-07	0.00E+00	0.00E+00	3.46E-05	0.00E+00	6.87E-07	0.00E+00	1.19E-06	0.00E+00	3.71E-05	8.00E-01	4.64E-05	4.00E+00	9.28E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.83E-07	0.00E+00	0.00E+00	3.44E-05	0.00E+00	3.52E-07	0.00E+00	8.38E-07	0.00E+00	3.63E-05	4.58E+00	7.92E-06	9.16E+00	3.96E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.03E-01	2.29E+01	2.13E+01	6.59E-02	3.28E+02	8.01E+00	0.00E+00	6.25E-01	0.00E+00	1.96E-01	0.00E+00	3.82E+02	1.93E+00	1.98E+02	1.93E+01	1.98E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.05E-03	0.00E+00	0.00E+00	2.20E-02	0.00E+00	5.41E-03	0.00E+00	1.07E-03	0.00E+00	3.45E-02	1.25E-01	2.76E-01	1.25E+00	2.76E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.88E-06	0.00E+00	0.00E+00	3.98E-04	0.00E+00	1.64E-05	0.00E+00	9.66E-06	0.00E+00	4.32E-04	6.85E-02	6.30E-03	6.85E-01	6.30E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	7.29E-04	0.00E+00	1.59E-06	0.00E+00	1.59E-05	0.00E+00	7.60E-04	6.80E-02	1.12E-02	6.90E-01	1.10E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	6.27E-06	0.00E+00	0.00E+00	3.41E-04	0.00E+00	3.64E-07	0.00E+00	1.28E-05	0.00E+00	3.60E-04	6.80E-02	5.30E-03	6.90E-01	5.22E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.12E-01	2.38E+00	0.00E+00	4.48E+00	8.25E-02	0.00E+00	2.22E+01	0.00E+00	8.40E-02	0.00E+00	2.96E+01	5.10E+00	5.80E+00	1.98E+01	1.49E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	2.05E-04	1.29E-03	1.23E-03	1.02E-02	3.29E-02	9.05E-03	0.00E+00	1.30E-02	0.00E+00	1.20E-03	0.00E+00	6.91E-02	1.00E+00	6.91E-02	1.00E+01	6.91E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	3.73E-02	0.00E+00	0.00E+00	2.26E-03	0.00E+00	2.29E-01	0.00E+00	1.32E-02	0.00E+00	2.82E-01	2.74E+03	1.03E-04	2.74E+04	1.03E-05
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	5.30E-04	0.00E+00	0.00E+00	3.21E-05	0.00E+00	3.25E-03	0.00E+00	1.88E-04	0.00E+00	4.00E-03	3.28E+00	1.22E-03	1.31E+01	3.04E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	9.72E-04	1.70E-02	3.23E-02	1.75E-01	2.84E-01	8.53E-02	0.00E+00	1.63E-01	0.00E+00	5.13E-03	0.00E+00	7.64E-01	1.17E+01	6.53E-02	1.51E+01	5.04E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.03E-06	0.00E+00	0.00E+00	5.04E-05	0.00E+00	5.05E-07	0.00E+00	1.34E-06	0.00E+00	5.33E-05	9.20E-02	5.79E-04	9.20E-01	5.79E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.19E-04	0.00E+00	6.06E-04	0.00E+00	2.57E-02	8.00E-02	3.21E-01	2.90E-01	8.86E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	1.37E-01	0.00E+00	3.60E-01	0.00E+00	4.12E-03	0.00E+00	5.04E-01	1.00E+00	5.04E-01	5.00E+00	1.01E-01
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	4.92E-01	0.00E+00	3.02E+01	1.50E+01	0.00E+00	7.51E+00	0.00E+00	1.54E+00	0.00E+00	6.64E-02	0.00E+00	5.48E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.27E-04	0.00E+00	4.20E-01	1.95E-02	NA	2.48E-02	NA	1.45E-01	0.00E+00	5.94E-03	0.00E+00	6.16E-01	8.00E+00	7.69E-02	8.00E+01	7.69E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.74E-02	0.00E+00	0.00E+00	2.28E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E+00	8.80E+01	2.63E-02	2.84E+02	8.16E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	3.92E-03	NA	3.36E-03	0.00E+00	2.84E-05	0.00E+00	7.57E-03	1.00E+00	7.57E-03	3.00E+00	2.52E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.26E-04	0.00E+00	0.00E+00	5.41E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.66E-04	1.50E-02	5.11E-02	2.50E-02	3.07E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.30E-07	0.00E+00	0.00E+00	4.30E-05	0.00E+00	3.64E-07	0.00E+00	1.02E-06	0.00E+00	4.52E-05	7.00E-02	6.46E-04	7.00E-01	6.46E-05
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	2.20E-02	1.77E-02	0.00E+00	1.63E-01	2.66E-01	0.00E+00	1.48E-02	0.00E+00	1.90E-03	0.00E+00	4.86E-01	4.00E+01	1.21E-02	8.00E+01	6.07E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.14E-02	3.06E-04	2.54E-03	2.32E+00	2.05E-03	9.22E-03	0.00E+00	1.13E-02	0.00E+00	4.48E-04	0.00E+00	2.42E+00	5.07E+02	4.77E-03	1.13E+03	2.14E-03
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.82E-03	0.00E+00	0.00E+00	1.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-01	5.07E+02	3.85E-04	1.13E+03	1.73E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.28E-06	0.00E+00	0.00E+00	3.81E-04	0.00E+00	1.99E-05	0.00E+00	1.01E-05	0.00E+00	4.19E-04	2.10E+00	2.00E-04	6.30E+00	6.66E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.02E-07	0.00E+00	0.00E+00	3.40E-05	0.00E+00	3.00E-07	0.00E+00	8.61E-07	0.00E+00	3.59E-05	2.40E-01	1.50E-04	2.40E+00	1.50E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	1.13E-03	NA	1.02E-01	0.00E+00	5.51E-05	0.00E+00	1.03E-01	8.50E+00	1.21E-02	2.55E+01	4.05E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	2.04E-03	1.59E-03	0.00E+00	2.93E-02	5.24E-03	0.00E+00	9.91E-03	0.00E+00	3.31E-04	0.00E+00	4.85E-02	2.00E-01	2.42E-01	3.30E-01	1.47E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.73E-02	0.00E+00	0.00E+00	6.86E-02	0.00E+00	3.45E-01	0.00E+00	1.37E-02	0.00E+00	5.05E-01	2.63E+02	1.92E-03	7.89E+02	6.40E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.02E-01	4.71E-02	2.45E-01	1.63E+01	3.15E-01	8.92E-01	0.00E+00	1.10E+00	0.00E+00	4.33E-02	0.00E+00	1.95E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.68E-03	0.00E+00	0.00E+00	2.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-02	7.40E-03	3.48E+00	7.40E-02	3.48E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.74E-03	0.00E+00	5.06E-02	8.92E-02	0.00E+00	1.42E-02	0.00E+00	2.58E-03	0.00E+00	3.19E-04	0.00E+00	1.60E-01	2.10E-01	7.60E-01	2.10E+00	7.60E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	9.00E-02	1.47E-01	0.00E+00	2.16E+00	2.25E-01	0.00E+00	1.48E+00	0.00E+00	7.06E-02	0.00E+00	4.18E+00	1.60E+02	2.61E-02	3.20E+02	1.31E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	4.5E+01	2.9E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	7.9E-06	4.0E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.0E-04	1.0E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.3E-02	2.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dield

Table O-160
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.27E-03	0.00E+00	0.00E+00	2.23E-01	0.00E+00	6.65E-01	0.00E+00	8.64E-03	0.00E+00	9.06E-01	2.68E+00	3.38E-01	1.33E+01	6.81E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	6.49E-03	0.00E+00	1.52E-02	0.00E+00	2.50E-04	0.00E+00	2.22E-02	1.13E-01	1.96E-01	2.64E-01	8.40E-02
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	6.70E-10	1.00E-08	5.69E-08	4.71E-07	1.50E-07	2.00E-06	0.00E+00	2.81E-09	0.00E+00	2.86E-09	0.00E+00	2.69E-06	1.00E-06	2.69E+00	1.00E-05	2.69E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.44E-01	0.00E+00	0.00E+00	5.11E-01	0.00E+00	9.05E-01	0.00E+00	4.14E-01	0.00E+00	2.27E+00	2.00E-01	1.14E+01	3.00E-01	7.58E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	2.04E-04	0.00E+00	2.72E-02	0.00E+00	9.32E-04	0.00E+00	2.93E-02	2.00E-01	1.46E-01	1.50E+00	1.95E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	2.50E-03	0.00E+00	6.08E-02	0.00E+00	2.08E-03	0.00E+00	6.76E-02	2.00E-01	3.38E-01	6.00E-01	1.13E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.19E-07	0.00E+00	0.00E+00	2.34E-05	0.00E+00	2.93E-07	0.00E+00	7.63E-07	0.00E+00	2.53E-05	8.00E-01	3.16E-05	4.00E+00	6.31E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.65E-06	0.00E+00	0.00E+00	7.62E-05	0.00E+00	4.61E-06	0.00E+00	2.66E-06	0.00E+00	8.61E-05	8.00E-01	1.08E-04	4.00E+00	2.15E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.57E-07	0.00E+00	0.00E+00	1.06E-05	0.00E+00	1.27E-07	0.00E+00	3.37E-07	0.00E+00	1.14E-05	8.00E-01	1.42E-05	4.00E+00	2.85E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.26E-07	0.00E+00	0.00E+00	1.23E-05	0.00E+00	5.07E-08	0.00E+00	3.97E-07	0.00E+00	1.32E-05	4.58E+00	2.89E-06	9.16E+00	1.44E-06
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.61E-01	1.45E+01	1.25E+01	3.42E-02	2.09E+02	1.72E+00	0.00E+00	2.39E-01	0.00E+00	8.81E-02	0.00E+00	2.38E+02	1.93E+00	1.23E+02	1.93E+01	1.23E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.71E-03	0.00E+00	0.00E+00	3.55E-03	0.00E+00	1.75E-03	0.00E+00	4.37E-04	0.00E+00	9.44E-03	1.25E-01	7.55E-02	1.25E+00	7.55E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	1.16E-04	0.00E+00	4.28E-07	0.00E+00	3.72E-06	0.00E+00	1.24E-04	6.85E-02	1.82E-03	6.85E-01	1.82E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.57E-06	0.00E+00	0.00E+00	2.26E-04	0.00E+00	3.46E-07	0.00E+00	4.01E-06	0.00E+00	2.38E-04	6.80E-02	3.50E-03	6.90E-01	3.45E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	1.09E-04	0.00E+00	2.86E-08	0.00E+00	6.19E-06	0.00E+00	1.19E-04	6.80E-02	1.75E-03	6.90E-01	1.73E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.12E-01	9.58E-01	0.00E+00	3.05E+00	4.22E-02	0.00E+00	8.93E+00	0.00E+00	2.04E-02	0.00E+00	1.32E+01	5.10E+00	2.59E+00	1.98E+01	6.67E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	1.31E-04	8.22E-04	8.49E-04	4.58E-03	1.57E-03	6.67E-03	0.00E+00	9.40E-03	0.00E+00	6.08E-04	0.00E+00	2.46E-02	1.00E+00	2.46E-02	1.00E+01	2.46E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.59E-02	0.00E+00	0.00E+00	1.57E-03	0.00E+00	1.36E-02	0.00E+00	2.33E-03	0.00E+00	4.34E-02	2.74E+03	1.59E-05	2.74E+04	1.59E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	2.23E-05	0.00E+00	1.93E-04	0.00E+00	3.31E-05	0.00E+00	6.16E-04	3.28E+00	1.88E-04	1.31E+01	4.69E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	5.85E-04	1.11E-02	1.97E-02	1.98E-02	5.52E-02	6.16E-02	0.00E+00	1.14E-01	0.00E+00	1.88E-03	0.00E+00	2.84E-01	1.17E+01	2.43E-02	1.51E+01	1.87E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.70E-07	0.00E+00	0.00E+00	1.60E-05	0.00E+00	1.99E-07	0.00E+00	7.36E-07	0.00E+00	1.75E-05	9.20E-02	1.90E-04	9.20E-01	1.90E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	7.81E-03	0.00E+00	5.55E-05	0.00E+00	2.55E-04	0.00E+00	8.40E-03	8.00E-02	1.05E-01	2.90E-01	2.89E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	4.35E-02	0.00E+00	1.99E-01	0.00E+00	1.73E-03	0.00E+00	2.46E-01	1.00E+00	2.46E-01	5.00E+00	4.91E-02
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.62E-01	0.00E+00	2.01E+01	2.00E+00	0.00E+00	2.31E+00	0.00E+00	1.03E+00	0.00E+00	3.76E-02	0.00E+00	2.57E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	1.10E-04	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-03	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.57E-04	0.00E+00	2.38E-01	3.50E-03	NA	1.40E-02	NA	9.36E-02	0.00E+00	2.94E-03	0.00E+00	3.52E-01	8.00E+00	4.40E-02	8.00E+01	4.40E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.99E-02	0.00E+00	0.00E+00	1.51E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-01	8.80E+01	1.95E-03	2.84E+02	6.03E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	2.80E-03	NA	2.30E-03	0.00E+00	1.58E-05	0.00E+00	5.28E-03	1.00E+00	5.28E-03	3.00E+00	1.76E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.50E-04	0.00E+00	0.00E+00	3.59E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.09E-04	1.50E-02	3.39E-02	2.50E-02	2.04E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.44E-07	0.00E+00	0.00E+00	1.33E-05	0.00E+00	1.95E-08	0.00E+00	4.14E-07	0.00E+00	1.42E-05	7.00E-02	2.02E-04	7.00E-01	2.02E-05
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	1.46E-02	1.27E-02	0.00E+00	2.26E-02	4.28E-02	0.00E+00	1.08E-02	0.00E+00	1.17E-03	0.00E+00	1.05E-01	4.00E+01	2.62E-03	8.00E+01	1.31E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.01E-02	1.71E-04	1.10E-03	2.76E-01	2.29E-04	1.05E-03	0.00E+00	2.95E-03	0.00E+00	1.30E-04	0.00E+00	3.11E-01	5.07E+02	6.14E-04	1.13E+03	2.75E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								3.48E-03	0.00E+00	0.00E+00	3.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-02	5.07E+02	6.99E-05	1.13E+03	3.13E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.76E-06	0.00E+00	0.00E+00	1.53E-04	0.00E+00	1.22E-05	0.00E+00	5.37E-06	0.00E+00	1.76E-04	2.10E+00	8.39E-05	6.30E+00	2.80E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.03E-07	0.00E+00	0.00E+00	1.13E-05	0.00E+00	1.41E-07	0.00E+00	3.76E-07	0.00E+00	1.22E-05	2.40E-01	5.08E-05	2.40E+00	5.08E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	1.66E-04	NA	6.45E-02	0.00E+00	2.04E-05	0.00E+00	6.48E-02	8.50E+00	7.63E-03	2.55E+01	2.54E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	1.35E-03	1.08E-03	0.00E+00	1.94E-02	3.66E-03	0.00E+00	6.61E-03	0.00E+00	1.73E-04	0.00E+00	3.22E-02	2.00E-01	1.61E-01	3.30E-01	9.77E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.40E-02	0.00E+00	0.00E+00	1.22E-02	0.00E+00	1.18E-01	0.00E+00	5.19E-03	0.00E+00	1.80E-01	2.63E+02	6.83E-04	7.89E+02	2.28E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	3.22E-01	2.50E-02	7.45E-02	2.95E+00	3.35E-02	7.13E-02	0.00E+00	2.00E-01	0.00E+00	8.78E-03	0.00E+00	3.69E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.10E-03	0.00E+00	0.00E+00	1.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02	7.40E-03	2.29E+00	7.40E-02	2.29E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.66E-03	0.00E+00	3.40E-02	1.52E-02	0.00E+00	4.56E-03	0.00E+00	1.56E-03	0.00E+00	1.98E-04	0.00E+00	5.72E-02	2.10E-01	2.72E-01	2.10E+00	2.72E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	5.79E-02	8.85E-02	0.00E+00	3.58E-01	1.36E-01	0.00E+00	9.87E-01	0.00E+00	1.73E-02	0.00E+00	1.64E+00	1.60E+02	1.03E-02	3.20E+02	5.14E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.2E+01	7.7E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.9E-06	1.4E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-04	3.1E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.1E-03	7.0E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/

Table O-161
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	1.18E-01	0.00E+00	3.25E-01	0.00E+00	3.49E-03	0.00E+00	4.48E-01	2.68E+00	1.67E-01	1.33E+01	3.37E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	3.36E-03	0.00E+00	5.44E-03	0.00E+00	9.80E-05	0.00E+00	8.92E-03	1.13E-01	7.89E-02	2.64E-01	3.38E-02
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.43E-10	8.88E-10	7.34E-09	7.41E-07	2.08E-07	1.75E-06	0.00E+00	1.43E-09	0.00E+00	1.60E-09	0.00E+00	2.71E-06	1.00E-06	2.71E+00	1.00E-05	2.71E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.91E-02	0.00E+00	0.00E+00	1.90E-01	0.00E+00	6.74E-01	0.00E+00	2.02E-01	0.00E+00	1.12E+00	2.00E-01	5.58E+00	3.00E-01	3.72E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	8.44E-05	0.00E+00	1.46E-02	0.00E+00	5.06E-04	0.00E+00	1.54E-02	2.00E-01	7.68E-02	1.50E+00	1.02E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	9.02E-04	0.00E+00	2.44E-02	0.00E+00	9.90E-04	0.00E+00	2.65E-02	2.00E-01	1.33E-01	6.00E-01	4.42E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.16E-08	0.00E+00	0.00E+00	1.02E-05	0.00E+00	2.11E-07	0.00E+00	2.53E-07	0.00E+00	1.08E-05	8.00E-01	1.35E-05	4.00E+00	2.69E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.06E-07	0.00E+00	0.00E+00	3.44E-05	0.00E+00	5.47E-06	0.00E+00	7.31E-07	0.00E+00	4.09E-05	8.00E-01	5.11E-05	4.00E+00	1.02E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	4.92E-06	0.00E+00	9.79E-08	0.00E+00	1.70E-07	0.00E+00	5.22E-06	8.00E-01	6.52E-06	4.00E+00	1.30E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.90E-08	0.00E+00	0.00E+00	4.90E-06	0.00E+00	5.01E-08	0.00E+00	1.19E-07	0.00E+00	5.10E-06	4.58E+00	1.11E-06	9.16E+00	5.57E-07
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.22E-01	9.70E-01	9.03E-01	9.39E-03	4.68E+01	1.14E+00	0.00E+00	8.90E-02	0.00E+00	2.79E-02	0.00E+00	5.00E+01	1.93E+00	2.59E+01	1.93E+01	2.59E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	3.14E-03	0.00E+00	7.71E-04	0.00E+00	1.52E-04	0.00E+00	4.32E-03	1.25E-01	3.45E-02	1.25E+00	3.45E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.35E-07	0.00E+00	0.00E+00	5.67E-05	0.00E+00	2.34E-06	0.00E+00	1.38E-06	0.00E+00	6.07E-05	6.85E-02	8.87E-04	6.85E-01	8.87E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.98E-07	0.00E+00	0.00E+00	1.04E-04	0.00E+00	2.27E-07	0.00E+00	2.27E-06	0.00E+00	1.07E-04	6.80E-02	1.57E-03	6.90E-01	1.55E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.66E-07	0.00E+00	0.00E+00	4.86E-05	0.00E+00	5.18E-08	0.00E+00	1.82E-06	0.00E+00	5.07E-05	6.80E-02	7.46E-04	6.90E-01	7.35E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.32E-02	1.01E-01	0.00E+00	6.39E-01	1.18E-02	0.00E+00	3.17E+00	0.00E+00	1.20E-02	0.00E+00	3.94E+00	5.10E+00	7.73E-01	1.98E+01	1.99E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	4.95E-05	5.48E-05	5.20E-05	1.45E-03	4.69E-03	1.29E-03	0.00E+00	1.85E-03	0.00E+00	1.71E-04	0.00E+00	9.61E-03	1.00E+00	9.61E-03	1.00E+01	9.61E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.58E-03	0.00E+00	0.00E+00	3.23E-04	0.00E+00	3.26E-02	0.00E+00	1.89E-03	0.00E+00	3.64E-02	2.74E+03	1.33E-05	2.74E+04	1.33E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	4.58E-06	0.00E+00	4.63E-04	0.00E+00	2.68E-05	0.00E+00	5.17E-04	3.28E+00	1.58E-04	1.31E+01	3.93E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	2.35E-04	7.21E-04	1.37E-03	2.50E-02	4.05E-02	1.22E-02	0.00E+00	2.33E-02	0.00E+00	7.31E-04	0.00E+00	1.04E-01	1.17E+01	8.89E-03	1.51E+01	6.87E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	4.39E-08	0.00E+00	0.00E+00	7.18E-06	0.00E+00	7.19E-08	0.00E+00	1.91E-07	0.00E+00	7.49E-06	9.20E-02	8.14E-05	9.20E-01	8.14E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	3.49E-03	0.00E+00	1.73E-05	0.00E+00	8.63E-05	0.00E+00	3.61E-03	8.00E-02	4.15E-02	2.90E-01	1.25E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	1.95E-02	0.00E+00	5.13E-02	0.00E+00	5.87E-04	0.00E+00	7.15E-02	1.00E+00	7.15E-02	5.00E+00	1.43E-02
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.19E-01	0.00E+00	1.28E+00	2.14E+00	0.00E+00	1.07E+00	0.00E+00	2.20E-01	0.00E+00	9.46E-03	0.00E+00	4.84E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	6.11E-06	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.03E-04	0.00E+00	1.78E-02	2.78E-03	NA	3.54E-03	NA	2.07E-02	0.00E+00	8.47E-04	0.00E+00	4.57E-02	8.00E+00	5.72E-03	8.00E+01	5.72E-04
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.04E-03	0.00E+00	0.00E+00	3.25E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-01	8.80E+01	3.79E-03	2.84E+02	1.18E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	5.59E-04	NA	4.79E-04	0.00E+00	4.04E-06	0.00E+00	1.05E-03	1.00E+00	1.05E-03	3.00E+00	3.51E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	9.59E-06	0.00E+00	0.00E+00	7.70E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	8.66E-05	1.50E-02	5.77E-03	2.50E-02	3.46E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-08	0.00E+00	0.00E+00	6.13E-06	0.00E+00	5.19E-08	0.00E+00	1.45E-07	0.00E+00	6.36E-06	7.00E-02	9.08E-05	7.00E-01	9.08E-06
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	9.34E-04	7.49E-04	0.00E+00	2.32E-02	3.80E-02	0.00E+00	2.11E-03	0.00E+00	2.70E-04	0.00E+00	6.52E-02	4.00E+01	1.63E-03	8.00E+01	8.16E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.73E-02	1.30E-05	1.08E-04	3.31E-01	2.92E-04	1.31E-03	0.00E+00	1.61E-03	0.00E+00	6.39E-05	0.00E+00	3.52E-01	5.07E+02	6.94E-04	1.13E+03	3.11E-04
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.41E-03	0.00E+00	0.00E+00	2.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-02	5.07E+02	5.59E-05	1.13E+03	2.51E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.51E-07	0.00E+00	0.00E+00	5.43E-05	0.00E+00	2.84E-06	0.00E+00	1.45E-06	0.00E+00	5.89E-05	2.10E+00	2.81E-05	6.30E+00	9.36E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.98E-08	0.00E+00	0.00E+00	4.85E-06	0.00E+00	4.28E-08	0.00E+00	1.23E-07	0.00E+00	5.04E-06	2.40E-01	2.10E-05	2.40E+00	2.10E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	1.61E-04	NA	1.45E-02	0.00E+00	7.85E-06	0.00E+00	1.47E-02	8.50E+00	1.73E-03	2.55E+01	5.76E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	8.67E-05	6.76E-05	0.00E+00	4.18E-03	7.47E-04	0.00E+00	1.41E-03	0.00E+00	4.71E-05	0.00E+00	6.54E-03	2.00E-01	3.27E-02	3.30E-01	1.98E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	9.77E-03	0.00E+00	4.92E-02	0.00E+00	1.95E-03	0.00E+00	6.42E-02	2.63E+02	2.44E-04	7.89E+02	8.14E-05
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.21E-01	2.00E-03	1.04E-02	2.33E+00	4.49E-02	1.27E-01	0.00E+00	1.56E-01	0.00E+00	6.18E-03	0.00E+00	2.79E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	7.12E-05	0.00E+00	0.00E+00	3.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	7.40E-03	4.74E-01	7.40E-02	4.74E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.63E-04	0.00E+00	2.15E-03	1.27E-02	0.00E+00	2.02E-03	0.00E+00	3.68E-04	0.00E+00	4.54E-05	0.00E+00	1.80E-02	2.10E-01	8.55E-02	2.10E+00	8.55E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	3.82E-03	6.25E-03	0.00E+00	3.08E-01	3.21E-02	0.00E+00	2.11E-01	0.00E+00	1.01E-02	0.00E+00	5.71E-01	1.60E+02	3.57E-03	3.20E+02	1.79E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	5.8E+00	3.8E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.1E-06	5.6E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.1E-05	1.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.2E-03	3.2E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin

Table O-162
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
									----------Unitless----------							mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	4.16E-02	0.00E+00	1.24E-01	0.00E+00	1.62E-03	0.00E+00	1.68E-01	2.68E+00	6.27E-02	1.33E+01	1.26E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	1.21E-03	0.00E+00	2.83E-03	0.00E+00	4.68E-05	0.00E+00	4.11E-03	1.13E-01	3.64E-02	2.64E-01	1.56E-02
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.12E-10	5.60E-10	3.17E-09	8.81E-08	2.80E-08	3.74E-07	0.00E+00	5.26E-10	0.00E+00	5.35E-10	0.00E+00	4.95E-07	1.00E-06	4.95E-01	1.00E-05	4.95E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.47E-02	0.00E+00	0.00E+00	9.55E-02	0.00E+00	1.69E-01	0.00E+00	7.75E-02	0.00E+00	3.67E-01	2.00E-01	1.83E+00	3.00E-01	1.22E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	3.82E-05	0.00E+00	5.08E-03	0.00E+00	1.74E-04	0.00E+00	5.34E-03	2.00E-01	2.67E-02	1.50E+00	3.56E-03
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	4.67E-04	0.00E+00	1.14E-02	0.00E+00	3.90E-04	0.00E+00	1.23E-02	2.00E-01	6.17E-02	6.00E-01	2.06E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.56E-08	0.00E+00	0.00E+00	4.37E-06	0.00E+00	5.47E-08	0.00E+00	1.43E-07	0.00E+00	4.61E-06	8.00E-01	5.77E-06	4.00E+00	1.15E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.48E-07	0.00E+00	0.00E+00	1.42E-05	0.00E+00	8.61E-07	0.00E+00	4.97E-07	0.00E+00	1.57E-05	8.00E-01	1.97E-05	4.00E+00	3.94E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.99E-08	0.00E+00	0.00E+00	1.97E-06	0.00E+00	2.38E-08	0.00E+00	6.29E-08	0.00E+00	2.08E-06	8.00E-01	2.60E-06	4.00E+00	5.20E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	2.31E-06	0.00E+00	9.47E-09	0.00E+00	7.42E-08	0.00E+00	2.42E-06	4.58E+00	5.27E-07	9.16E+00	2.64E-07
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.27E-02	8.10E-01	6.96E-01	6.39E-03	3.90E+01	3.21E-01	0.00E+00	4.47E-02	0.00E+00	1.65E-02	0.00E+00	4.10E+01	1.93E+00	2.13E+01	1.93E+01	2.13E+00
Antimony	0.00E+00	mg/L	2.06E+00	mg/kg	1.00E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	6.63E-04	0.00E+00	3.27E-04	0.00E+00	8.16E-05	0.00E+00	1.28E-03	1.25E-01	1.02E-02	1.25E+00	1.02E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.22E-07	0.00E+00	0.00E+00	2.17E-05	0.00E+00	7.99E-08	0.00E+00	6.96E-07	0.00E+00	2.27E-05	6.85E-02	3.32E-04	6.85E-01	3.32E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	4.21E-03	mg/kg	1.00E+00	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.22E-05	0.00E+00	6.46E-08	0.00E+00	7.49E-07	0.00E+00	4.35E-05	6.80E-02	6.39E-04	6.90E-01	6.30E-05
Aroclor 1260	0.00E+00	mg/L	1.94E-03	mg/kg	1.00E+00	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.94E-07	0.00E+00	0.00E+00	2.04E-05	0.00E+00	5.34E-09	0.00E+00	1.16E-06	0.00E+00	2.18E-05	6.80E-02	3.21E-04	6.90E-01	3.16E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.18E-02	5.34E-02	0.00E+00	5.70E-01	7.88E-03	0.00E+00	1.67E+00	0.00E+00	3.81E-03	0.00E+00	2.32E+00	5.10E+00	4.54E-01	1.98E+01	1.17E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	4.15E-05	4.58E-05	4.73E-05	8.56E-04	2.94E-04	1.25E-03	0.00E+00	1.76E-03	0.00E+00	1.14E-04	0.00E+00	4.40E-03	1.00E+00	4.40E-03	1.00E+01	4.40E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	2.94E-04	0.00E+00	2.54E-03	0.00E+00	4.36E-04	0.00E+00	4.71E-03	2.74E+03	1.72E-06	2.74E+04	1.72E-07
Chromium (hexavalent)	0.00E+00	mg/L	2.05E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	4.17E-06	0.00E+00	3.60E-05	0.00E+00	6.19E-06	0.00E+00	6.69E-05	3.28E+00	2.04E-05	1.31E+01	5.09E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	1.85E-04	6.17E-04	1.09E-03	3.70E-03	1.03E-02	1.15E-02	0.00E+00	2.13E-02	0.00E+00	3.51E-04	0.00E+00	4.91E-02	1.17E+01	4.20E-03	1.51E+01	3.24E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.17E-08	0.00E+00	0.00E+00	2.99E-06	0.00E+00	3.73E-08	0.00E+00	1.38E-07	0.00E+00	3.20E-06	9.20E-02	3.48E-05	9.20E-01	3.48E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-03	0.00E+00	1.04E-05	0.00E+00	4.77E-05	0.00E+00	1.53E-03	8.00E-02	1.92E-02	2.90E-01	5.29E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	8.13E-03	0.00E+00	3.71E-02	0.00E+00	3.23E-04	0.00E+00	4.57E-02	1.00E+00	4.57E-02	5.00E+00	9.13E-03
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.31E-02	0.00E+00	1.12E+00	3.73E-01	0.00E+00	4.32E-01	0.00E+00	1.92E-01	0.00E+00	7.03E-03	0.00E+00	2.21E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	6.11E-06	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	8.14E-05	0.00E+00	1.32E-02	6.55E-04	NA	2.62E-03	NA	1.75E-02	0.00E+00	5.50E-04	0.00E+00	3.46E-02	8.00E+00	4.33E-03	8.00E+01	4.33E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.30E-03	0.00E+00	0.00E+00	2.83E-02	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-02	8.80E+01	3.93E-04	2.84E+02	1.22E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	9.02E-06	0.00E+00	0.00E+00	5.24E-04	NA	4.30E-04	0.00E+00	2.95E-06	0.00E+00	9.66E-04	1.00E+00	9.66E-04	3.00E+00	3.22E-04
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	8.35E-06	0.00E+00	0.00E+00	6.71E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.55E-05	1.50E-02	5.03E-03	2.50E-02	3.02E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.47E-08	0.00E+00	0.00E+00	2.48E-06	0.00E+00	3.65E-09	0.00E+00	7.74E-08	0.00E+00	2.59E-06	7.00E-02	3.70E-05	7.00E-01	3.70E-06
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	8.13E-04	7.05E-04	0.00E+00	4.23E-03	8.00E-03	0.00E+00	2.01E-03	0.00E+00	2.19E-04	0.00E+00	1.60E-02	4.00E+01	4.00E-04	8.00E+01	2.00E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.53E-03	9.51E-06	6.13E-05	5.15E-02	4.28E-05	1.97E-04	0.00E+00	5.52E-04	0.00E+00	2.42E-05	0.00E+00	6.19E-02	5.07E+02	1.22E-04	1.13E+03	5.48E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.10E-03	0.00E+00	0.00E+00	5.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-03	5.07E+02	1.40E-05	1.13E+03	6.26E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.21E-07	0.00E+00	0.00E+00	2.86E-05	0.00E+00	2.27E-06	0.00E+00	1.00E-06	0.00E+00	3.22E-05	2.10E+00	1.53E-05	6.30E+00	5.11E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	2.11E-06	0.00E+00	2.64E-08	0.00E+00	7.03E-08	0.00E+00	2.23E-06	2.40E-01	9.27E-06	2.40E+00	9.27E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	3.11E-05	NA	1.20E-02	0.00E+00	3.82E-06	0.00E+00	1.21E-02	8.50E+00	1.42E-03	2.55E+01	4.74E-04
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	7.51E-05	5.99E-05	0.00E+00	3.62E-03	6.84E-04	0.00E+00	1.24E-03	0.00E+00	3.23E-05	0.00E+00	5.71E-03	2.00E-01	2.85E-02	3.30E-01	1.73E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	2.29E-03	0.00E+00	2.21E-02	0.00E+00	9.70E-04	0.00E+00	2.78E-02	2.63E+02	1.06E-04	7.89E+02	3.52E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.02E-01	1.39E-03	4.15E-03	5.52E-01	6.25E-03	1.33E-02	0.00E+00	3.73E-02	0.00E+00	1.64E-03	0.00E+00	7.19E-01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	6.14E-05	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-03	7.40E-03	4.09E-01	7.40E-02	4.09E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.25E-04	0.00E+00	1.89E-03	2.84E-03	0.00E+00	8.52E-04	0.00E+00	2.92E-04	0.00E+00	3.71E-05	0.00E+00	6.44E-03	2.10E-01	3.07E-02	2.10E+00	3.07E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	3.22E-03	4.93E-03	0.00E+00	6.69E-02	2.53E-02	0.00E+00	1.85E-01	0.00E+00	3.24E-03	0.00E+00	2.88E-01	1.60E+02	1.80E-03	3.20E+02	9.00E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.9E+00	1.2E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	5.3E-07	2.6E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.8E-05	5.6E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-03	1.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/

Table O-163
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-01	0.00E+00	0.00E+00	2.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E+01	2.68E+00	9.01E+00	1.33E+01	1.81E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.73E-02	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E+00	1.13E-01	1.56E+01	2.64E-01	6.69E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.40E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.68E-09	0.00E+00	4.75E-07	0.00E+00	0.00E+00	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	1.00E-06	8.18E+01	1.00E-05	8.18E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.01E+00	0.00E+00	0.00E+00	1.11E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E+01	2.00E-01	7.55E+01	3.00E-01	5.03E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.01E+02	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E+00	0.00E+00	0.00E+00	6.93E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	2.00E-01	1.05E+01	1.50E+00	1.40E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+01	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	0.00E+00	5.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-01	2.00E-01	3.51E+00	6.00E-01	1.17E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	5.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	8.00E-01	1.08E-03	4.00E+00	2.17E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-03	8.00E-01	5.18E-03	4.00E+00	1.04E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	4.09E-06	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	8.00E-01	6.38E-04	4.00E+00	1.28E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.13E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.98E-06	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	4.58E+00	7.94E-05	9.16E+00	3.97E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.30E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.34E+00	0.00E+00	1.30E+02	0.00E+00	0.00E+00	1.18E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E+02	1.93E+00	1.29E+02	1.93E+01	1.29E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	8.22E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	1.25E-01	8.97E-01	1.25E+00	8.97E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	5.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	6.85E-02	7.70E-02	6.85E-01	7.70E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	6.24E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	8.72E-05	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	6.80E-02	1.61E-01	6.80E-01	1.61E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	4.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	6.80E-02	7.06E-02	6.80E-01	7.06E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	5.53E+02	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.36E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	7.72E+00	0.00E+00	0.00E+00	8.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E+00	5.10E+00	1.67E+00	1.98E+01	4.31E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	5.43E-01	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.58E-03	0.00E+00	0.00E+00	8.70E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-01	1.59E+01	5.52E-02	4.70E+01	1.87E-02
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	6.67E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.97E+00	8.11E-01	7.42E-01	7.42E-01	9.22E-01	9.22E-01	5.47E-04	0.00E+00	9.32E-03	0.00E+00	0.00E+00	1.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-01	1.00E+00	1.51E-01	1.00E+01	1.51E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.36E-01	0.00E+00	0.00E+00	3.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-01	2.74E+03	9.89E-05	2.74E+04	9.89E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	3.35E-03	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-03	3.28E+00	1.17E-03	1.31E+01	2.92E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	9.45E-01	5.86E-01	4.40E-01	4.40E-01	1.49E-01	1.49E-01	2.60E-03	0.00E+00	1.61E-01	0.00E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E+00	1.17E+01	1.14E-01	1.51E+01	8.79E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	8.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	9.20E-02	8.82E-03	9.20E-01	8.82E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-01	8.00E-02	2.31E+00	2.90E-01	6.37E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.89E-02	0.00E+00	0.00E+00	1.86E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E+00	1.00E+00	1.88E+00	5.00E+00	3.75E-01
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.42E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.31E+00	0.00E+00	1.98E+02	0.00E+00	0.00E+00	1.19E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	1.14E-03	0.00E+00	2.11E+00	0.00E+00	NA	3.00E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	8.00E+00	3.02E-01	8.00E+01	3.02E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	8.80E+01	1.14E-03	2.84E+02	3.52E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.67E-02	mg/kg	1.00E+00		7.50E-01	5.17E+00	NA	1.08E+00	1.08E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	5.37E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-02	1.32E+01	4.17E-03	3.96E+01	1.39E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.89E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.04E-06	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	7.00E-02	7.26E-03	7.00E-01	7.26E-04
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.42E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.38E-02	6.38E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.18E-01	0.00E+00	0.00E+00	4.28E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E+00	4.00E+01	1.10E-01	8.00E+01	5.49E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.34E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.91E-01	0.00E+00	1.87E-02	0.00E+00	0.00E+00	1.64E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-01	5.07E+02	7.36E-04	1.13E+03	3.30E-04
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.55E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-02	5.07E+02	3.06E-05	1.13E+03	1.37E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.40E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	6.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03	2.10E+00	3.28E-03	6.30E+00	1.09E-03
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.58E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	2.40E-01	1.77E-03	2.40E+00	1.77E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.61E-01	mg/kg	1.00E+00			1.14E+00	NA	1.93E+01	1.93E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	3.19E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-02	8.50E+00	4.18E-03	2.55E+01	1.39E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.71E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	9.37E-03	0.00E+00	0.00E+00	7.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-02	2.00E-01	4.19E-01	3.30E-01	2.54E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.71E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.78E-01	0.00E+00	0.00E+00	8.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E+00	2.63E+02	4.52E-03	7.89E+02	1.51E-03
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	4.00E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.34E+00	0.00E+00	5.59E+00	0.00E+00	0.00E+00	4.90E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.36E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	7.33E-03	0.00E+00	3.30E-01	0.00E+00	0.00E+00	2.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-01	2.10E-01	2.67E+00	2.10E+00	2.67E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.17E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.56E-01	8.56E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	7.22E-01	0.00E+00	0.00E+00	2.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E+00	1.60E+02	2.12E-02	3.20E+02	1.06E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	9.0E+01	5.3E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	7.9E-05	4.0E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.9E-03	1.4E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.1E-01	3.1E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	5.5E-02	1.9E-02
**Aldrin/Dieldrin/Endrin EEQ:

Table O-164
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.26E+01	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.76E-01	0.00E+00	0.00E+00	1.02E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E+01	2.68E+00	3.86E+00	1.33E+01	7.77E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.14E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	9.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-01	1.13E-01	8.33E+00	2.64E-01	3.57E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	2.05E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.35E-09	0.00E+00	2.87E-07	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	1.00E-06	2.46E+01	1.00E-05	2.46E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.07E+00	0.00E+00	0.00E+00	5.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E+00	2.00E-01	3.90E+01	3.00E-01	2.60E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.04E+01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.04E-01	0.00E+00	0.00E+00	3.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00	2.00E-01	5.25E+00	1.50E+00	7.00E-01
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	7.15E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.98E-02	0.00E+00	0.00E+00	2.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-01	2.00E-01	1.84E+00	6.00E-01	6.14E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.06E-06	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	8.00E-01	4.41E-04	4.00E+00	8.83E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	8.00E-01	2.28E-03	4.00E+00	4.55E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.21E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.08E-06	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	8.00E-01	2.79E-04	4.00E+00	5.58E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	6.95E-01	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	6.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-01	4.58E+00	1.50E-01	9.16E+00	7.51E-02
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	8.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.14E-01	0.00E+00	1.12E+02	0.00E+00	0.00E+00	3.71E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E+02	1.93E+00	7.77E+01	1.93E+01	7.77E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.95E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	2.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-02	1.25E-01	2.57E-01	1.25E+00	2.57E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.09E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	6.85E-02	3.03E-02	6.85E-01	3.03E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.33E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	4.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03	6.80E-02	6.49E-02	6.80E-01	6.49E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.97E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	6.80E-02	3.11E-02	6.80E-01	3.11E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	4.81E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.43E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	6.72E+00	0.00E+00	0.00E+00	7.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E+00	5.10E+00	1.46E+00	1.98E+01	3.77E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	4.45E-01	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.21E-03	0.00E+00	0.00E+00	4.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-01	1.59E+01	2.62E-02	4.70E+01	8.87E-03
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	5.66E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.19E+00	8.80E-01	7.99E-01	7.99E-01	6.72E-01	6.72E-01	4.59E-04	0.00E+00	7.90E-03	0.00E+00	0.00E+00	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-01	1.00E+00	1.42E-01	1.00E+01	1.42E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.55E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.17E-01	0.00E+00	0.00E+00	3.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-01	2.74E+03	9.08E-05	2.74E+04	9.08E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.08E-03	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-03	3.28E+00	1.08E-03	1.31E+01	2.68E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	9.30E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.11E+00	6.44E-01	5.01E-01	5.01E-01	8.97E-02	8.97E-02	2.05E-03	0.00E+00	1.30E-01	0.00E+00	0.00E+00	1.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E+00	1.17E+01	1.06E-01	1.51E+01	8.20E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.35E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	9.20E-02	3.49E-03	9.20E-01	3.49E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	6.30E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.80E-04	0.00E+00	0.00E+00	6.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-02	8.00E-02	7.68E-01	2.90E-01	2.12E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	7.90E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-01	1.00E+00	8.04E-01	5.00E+00	1.61E-01
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.27E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	9.19E-01	0.00E+00	1.78E+02	0.00E+00	0.00E+00	4.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	9.00E-04	0.00E+00	1.68E+00	0.00E+00	NA	2.38E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+00	8.00E+00	2.40E-01	8.00E+01	2.40E-02
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-02	8.80E+01	7.92E-04	2.84E+02	2.45E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	8.59E-02	mg/kg	1.00E+00		7.50E-01	5.60E+00	NA	1.14E+00	1.14E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	5.16E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-02	1.32E+01	4.00E-03	3.96E+01	1.33E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.33E-06	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	7.00E-02	3.47E-03	7.00E-01	3.47E-04
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.73E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.51E-02	6.51E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	8.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-01	4.00E+01	2.47E-02	8.00E+01	1.23E-02
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	1.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.05E-01	0.00E+00	1.40E-02	0.00E+00	0.00E+00	3.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-01	5.07E+02	2.99E-04	1.13E+03	1.34E-04
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	5.07E+02	2.41E-05	1.13E+03	1.08E-05
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.13E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	2.10E+00	1.35E-03	6.30E+00	4.51E-04
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.86E-06	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	2.40E-01	8.14E-04	2.40E+00	8.14E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00			3.00E-01	NA	2.34E+01	2.34E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	5.26E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03	8.50E+00	8.87E-04	2.55E+01	2.96E-04
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.94E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	8.29E-03	0.00E+00	0.00E+00	6.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-02	2.00E-01	3.82E-01	3.30E-01	2.32E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.95E-01	0.00E+00	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-01	2.63E+02	1.87E-03	7.89E+02	6.25E-04
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	2.41E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.13E+00	0.00E+00	3.36E+00	0.00E+00	0.00E+00	7.76E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.08E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.81E-03	0.00E+00	2.91E-01	0.00E+00	0.00E+00	9.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-01	2.10E-01	1.86E+00	2.10E+00	1.86E-01
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.15E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	9.42E-01	9.42E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	5.79E-01	0.00E+00	0.00E+00	2.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E+00	1.60E+02	1.70E-02	3.20E+02	8.50E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	4.6E+01	2.7E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.5E-01	7.5E-02
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.0E-03	6.0E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-01	1.3E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.6E-02	8.9E-03
**Aldrin/Dieldrin

Table O-165
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	2.26E-01	0.00E+00	6.19E-01	0.00E+00	4.65E-01	9.96E-02	1.43E+00	2.68E+00	5.32E-01	1.33E+01	1.07E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	1.65E-02	0.00E+00	2.68E-02	0.00E+00	3.38E-02	7.23E-03	8.54E-02	1.13E-01	7.56E-01	2.64E-01	3.24E-01
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	3.40E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.03E-09	0.00E+00	3.23E-08	0.00E+00	0.00E+00	7.67E-07	0.00E+00	6.27E-10	0.00E+00	4.90E-08	1.05E-08	8.60E-07	1.00E-06	8.60E-01	1.00E-05	8.60E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.72E-01	0.00E+00	0.00E+00	1.05E-01	0.00E+00	3.72E-01	0.00E+00	7.82E+00	1.68E+00	1.02E+01	2.00E-01	5.12E+01	3.00E-01	3.41E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.01E+02	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.56E-02	0.00E+00	0.00E+00	6.54E-03	0.00E+00	1.14E+00	0.00E+00	2.75E+00	5.89E-01	4.57E+00	2.00E-01	2.29E+01	1.50E+00	3.05E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+01	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.29E-02	0.00E+00	0.00E+00	4.83E-03	0.00E+00	1.31E-01	0.00E+00	3.71E-01	7.95E-02	5.99E-01	2.00E-01	2.99E+00	6.00E-01	9.98E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	5.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.88E-07	0.00E+00	0.00E+00	8.11E-06	0.00E+00	1.67E-07	0.00E+00	1.40E-05	3.01E-06	2.58E-05	8.00E-01	3.23E-05	4.00E+00	6.45E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	3.88E-05	0.00E+00	6.17E-06	0.00E+00	5.77E-05	1.24E-05	1.17E-04	8.00E-01	1.47E-04	4.00E+00	2.93E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.77E-07	0.00E+00	0.00E+00	4.77E-06	0.00E+00	9.49E-08	0.00E+00	1.15E-05	2.47E-06	1.91E-05	8.00E-01	2.39E-05	4.00E+00	4.78E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.13E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.02E-07	0.00E+00	0.00E+00	3.40E-06	0.00E+00	3.48E-08	0.00E+00	5.81E-06	1.24E-06	1.07E-05	4.58E+00	2.33E-06	9.16E+00	1.17E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.30E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.16E-01	0.00E+00	8.81E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	8.67E-02	0.00E+00	1.90E+00	4.08E-01	1.28E+01	1.93E+00	6.65E+00	1.93E+01	6.65E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	8.22E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	9.49E-04	0.00E+00	2.33E-04	0.00E+00	3.23E-03	6.92E-04	5.88E-03	1.25E-01	4.71E-02	1.25E+00	4.71E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	4.94E-05	0.00E+00	2.04E-06	0.00E+00	8.39E-05	1.80E-05	1.56E-04	6.85E-02	2.28E-03	6.85E-01	2.28E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	6.24E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.91E-06	0.00E+00	0.00E+00	1.03E-04	0.00E+00	2.24E-07	0.00E+00	1.57E-04	3.36E-05	2.99E-04	6.80E-02	4.40E-03	6.90E-01	4.33E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	4.50E-05	0.00E+00	4.79E-08	0.00E+00	1.18E-04	2.53E-05	1.91E-04	6.80E-02	2.81E-03	6.90E-01	2.77E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	5.53E+02	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.36E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	5.24E-01	0.00E+00	0.00E+00	7.62E-03	0.00E+00	1.64E+00	0.00E+00	4.33E-01	9.28E-02	2.69E+00	5.10E+00	5.28E-01	1.98E+01	1.36E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	5.43E-01	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	8.20E-03	0.00E+00	1.36E-04	0.00E+00	1.48E-02	3.17E-03	2.68E-02	1.59E+01	1.69E-03	4.70E+01	5.71E-04
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	6.67E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.97E+00	8.11E-01	7.42E-01	7.42E-01	9.22E-01	9.22E-01	2.10E-04	0.00E+00	6.32E-04	0.00E+00	0.00E+00	1.33E-03	0.00E+00	2.01E-03	0.00E+00	1.46E-02	3.12E-03	2.19E-02	1.00E+00	2.19E-02	1.00E+01	2.19E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.69E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	1.60E-02	0.00E+00	0.00E+00	3.26E-04	0.00E+00	3.29E-02	0.00E+00	1.33E-01	2.86E-02	2.11E-01	2.74E+03	7.71E-05	2.74E+04	7.71E-06
Chromium (hexavalent)	0.00E+00	mg/L	2.40E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	4.62E-06	0.00E+00	4.67E-04	0.00E+00	1.89E-03	4.05E-04	3.00E-03	3.28E+00	9.14E-04	1.31E+01	2.28E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	9.45E-01	5.86E-01	4.40E-01	4.40E-01	1.49E-01	1.49E-01	9.97E-04	0.00E+00	1.09E-02	0.00E+00	0.00E+00	1.10E-02	0.00E+00	2.05E-02	0.00E+00	4.06E-02	8.71E-03	9.28E-02	1.17E+01	7.93E-03	1.51E+01	6.13E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	4.65E-07	0.00E+00	0.00E+00	7.59E-06	0.00E+00	7.60E-08	0.00E+00	1.41E-05	3.02E-06	2.53E-05	9.20E-02	2.75E-04	9.20E-01	2.75E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	1.73E-03	0.00E+00	8.41E-06	0.00E+00	2.99E-03	6.42E-04	5.48E-03	8.00E-02	6.84E-02	2.90E-01	1.89E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	1.75E-02	0.00E+00	4.61E-02	0.00E+00	3.70E-02	7.92E-03	1.10E-01	1.00E+00	1.10E-01	5.00E+00	2.20E-02
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.42E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.05E-01	0.00E+00	1.35E+01	0.00E+00	0.00E+00	1.12E+00	0.00E+00	2.30E-01	0.00E+00	6.95E-01	1.49E-01	1.62E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	4.37E-04	0.00E+00	1.43E-01	0.00E+00	NA	2.83E-03	NA	1.78E-02	0.00E+00	4.76E-02	1.02E-02	2.22E-01	8.00E+00	2.78E-02	8.00E+01	2.78E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	3.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-02	8.80E+01	4.36E-04	2.84E+02	1.35E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.67E-02	mg/kg	1.00E+00		7.50E-01	5.17E+00	NA	1.08E+00	1.08E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	5.07E-04	NA	4.22E-04	0.00E+00	2.35E-04	5.04E-05	1.31E-03	1.00E+00	1.31E-03	3.00E+00	4.35E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.89E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.74E-07	0.00E+00	0.00E+00	4.75E-06	0.00E+00	4.03E-08	0.00E+00	7.88E-06	1.69E-06	1.46E-05	7.00E-02	2.09E-04	7.00E-01	2.09E-05
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	8.42E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.38E-02	6.38E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	7.97E-03	0.00E+00	0.00E+00	4.03E-02	0.00E+00	2.18E-03	0.00E+00	2.01E-02	4.31E-03	7.49E-02	4.00E+01	1.87E-03	8.00E+01	9.37E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.34E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.32E-02	0.00E+00	1.27E-03	0.00E+00	0.00E+00	1.55E-03	0.00E+00	1.90E-03	0.00E+00	5.26E-03	1.13E-03	8.43E-02	5.07E+02	1.66E-04	1.13E+03	7.46E-05
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-03	5.07E+02	1.18E-05	1.13E+03	5.28E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.40E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.17E-06	0.00E+00	0.00E+00	6.43E-05	0.00E+00	3.37E-06	0.00E+00	1.20E-04	2.57E-05	2.17E-04	2.10E+00	1.04E-04	6.30E+00	3.45E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.58E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.44E-07	0.00E+00	0.00E+00	3.96E-06	0.00E+00	3.50E-08	0.00E+00	7.02E-06	1.50E-06	1.28E-05	2.40E-01	5.32E-05	2.40E+00	5.32E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.61E-01	mg/kg	1.00E+00			1.14E+00	NA	1.93E+01	1.93E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	3.01E-04	NA	2.04E-02	0.00E+00	1.02E-03	2.20E-04	2.22E-02	8.50E+00	2.62E-03	2.55E+01	8.72E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.71E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	6.36E-04	0.00E+00	0.00E+00	7.03E-04	0.00E+00	1.32E-03	0.00E+00	3.10E-03	6.63E-04	6.42E-03	2.00E-01	3.21E-02	3.30E-01	1.95E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.71E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.57E-02	0.00E+00	0.00E+00	7.63E-03	0.00E+00	3.84E-02	0.00E+00	1.06E-01	2.28E-02	2.01E-01	2.63E+02	7.65E-04	7.89E+02	2.55E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	4.00E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-01	0.00E+00	5.67E-01	0.00E+00	1.57E+00	3.37E-01	3.83E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.36E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	2.81E-03	0.00E+00	2.24E-02	0.00E+00	0.00E+00	2.10E-03	0.00E+00	3.83E-04	0.00E+00	3.30E-03	7.08E-04	3.17E-02	2.10E-01	1.51E-01	2.10E+00	1.51E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	5.17E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	8.56E-01	8.56E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	4.90E-02	0.00E+00	0.00E+00	2.51E-02	0.00E+00	1.79E-01	0.00E+00	5.51E-01	1.18E-01	9.22E-01	1.60E+02	5.76E-03	3.20E+02	2.88E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	7.7E+01		3.8E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.3E-06		1.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-04		4.1E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	9.5E-03		9.4E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.7E-03		5.7E-04
**Aldrin/Dieldrin/

Table O-166
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.26E+01	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	1.82E-02	0.00E+00	5.43E-02	0.00E+00	4.94E-02	1.06E-02	1.35E-01	2.68E+00	5.03E-02	1.33E+01	1.01E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.14E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	1.66E-03	0.00E+00	3.86E-03	0.00E+00	4.47E-03	9.57E-04	1.11E-02	1.13E-01	9.86E-02	2.64E-01	4.22E-02
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	2.05E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.71E-10	0.00E+00	3.68E-09	0.00E+00	0.00E+00	4.34E-08	0.00E+00	6.11E-11	0.00E+00	4.35E-09	9.32E-10	5.26E-08	1.00E-06	5.26E-02	1.00E-05	5.26E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.66E-02	0.00E+00	0.00E+00	1.03E-02	0.00E+00	1.82E-02	0.00E+00	5.82E-01	1.25E-01	7.62E-01	2.00E-01	3.81E+00	3.00E-01	2.54E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.04E+01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.04E-03	0.00E+00	0.00E+00	6.19E-04	0.00E+00	8.23E-02	0.00E+00	1.98E-01	4.24E-02	3.32E-01	2.00E-01	1.66E+00	1.50E+00	2.21E-01
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	7.15E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	4.80E-04	0.00E+00	1.17E-02	0.00E+00	2.81E-02	6.02E-03	4.75E-02	2.00E-01	2.38E-01	6.00E-01	7.92E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.50E-08	0.00E+00	0.00E+00	6.22E-07	0.00E+00	7.79E-09	0.00E+00	1.42E-06	3.05E-07	2.42E-06	8.00E-01	3.03E-06	4.00E+00	6.05E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.33E-07	0.00E+00	0.00E+00	3.21E-06	0.00E+00	1.94E-07	0.00E+00	7.84E-06	1.68E-06	1.33E-05	8.00E-01	1.66E-05	4.00E+00	3.31E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.21E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.96E-08	0.00E+00	0.00E+00	3.93E-07	0.00E+00	4.75E-09	0.00E+00	8.77E-07	1.88E-07	1.50E-06	8.00E-01	1.88E-06	4.00E+00	3.76E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	6.95E-01	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	1.21E-03	0.00E+00	4.98E-06	0.00E+00	2.73E-03	5.85E-04	4.66E-03	4.58E+00	1.02E-03	9.16E+00	5.08E-04
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	8.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	6.65E-02	0.00E+00	1.44E+00	0.00E+00	0.00E+00	6.62E-02	0.00E+00	9.24E-03	0.00E+00	2.38E-01	5.10E-02	1.87E+00	1.93E+00	9.70E-01	1.93E+01	9.70E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.95E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	4.00E-05	0.00E+00	1.97E-05	0.00E+00	3.45E-04	7.39E-05	6.03E-04	1.25E-01	4.83E-03	1.25E+00	4.83E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.09E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.75E-07	0.00E+00	0.00E+00	3.66E-06	0.00E+00	1.35E-08	0.00E+00	8.21E-06	1.76E-06	1.40E-05	6.85E-02	2.05E-04	6.85E-01	2.05E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.33E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.78E-07	0.00E+00	0.00E+00	7.78E-06	0.00E+00	1.19E-08	0.00E+00	9.66E-06	2.07E-06	2.03E-05	6.80E-02	2.99E-04	6.90E-01	2.94E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.97E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.54E-07	0.00E+00	0.00E+00	3.73E-06	0.00E+00	9.75E-10	0.00E+00	1.48E-05	3.17E-06	2.20E-05	6.80E-02	3.24E-04	6.90E-01	3.19E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	4.81E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.43E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	8.64E-02	0.00E+00	0.00E+00	1.32E-03	0.00E+00	2.70E-01	0.00E+00	4.32E-02	9.25E-03	4.10E-01	5.10E+00	8.04E-02	1.98E+01	2.07E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	4.45E-01	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.98E-05	0.00E+00	0.00E+00	7.34E-04	0.00E+00	1.92E-05	0.00E+00	1.75E-03	3.74E-04	2.95E-03	1.59E+01	1.86E-04	4.70E+01	6.29E-05
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	5.66E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.19E+00	8.80E-01	7.99E-01	7.99E-01	6.72E-01	6.72E-01	3.34E-05	0.00E+00	1.02E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	3.48E-04	0.00E+00	1.71E-03	3.65E-04	2.79E-03	1.00E+00	2.79E-03	1.00E+01	2.79E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.55E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	5.66E-05	0.00E+00	4.89E-04	0.00E+00	5.88E-03	1.26E-03	1.05E-02	2.74E+03	3.83E-06	2.74E+04	3.83E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.20E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	8.04E-07	0.00E+00	6.94E-06	0.00E+00	8.35E-05	1.79E-05	1.49E-04	3.28E+00	4.53E-05	1.31E+01	1.13E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	9.30E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.11E+00	6.44E-01	5.01E-01	5.01E-01	8.97E-02	8.97E-02	1.49E-04	0.00E+00	1.67E-03	0.00E+00	0.00E+00	1.98E-03	0.00E+00	3.58E-03	0.00E+00	3.74E-03	8.01E-04	1.19E-02	1.17E+01	1.02E-03	1.51E+01	7.87E-04
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.35E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	6.01E-08	0.00E+00	0.00E+00	5.66E-07	0.00E+00	7.05E-09	0.00E+00	1.82E-06	3.90E-07	2.84E-06	9.20E-02	3.09E-05	9.20E-01	3.09E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	6.30E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	1.08E-04	0.00E+00	7.69E-07	0.00E+00	2.47E-04	5.30E-05	4.21E-04	8.00E-02	5.26E-03	2.90E-01	1.45E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	1.41E-03	0.00E+00	6.44E-03	0.00E+00	3.93E-03	8.42E-04	1.28E-02	1.00E+00	1.28E-02	5.00E+00	2.56E-03
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.27E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.68E-02	0.00E+00	2.28E+00	0.00E+00	0.00E+00	8.79E-02	0.00E+00	3.91E-02	0.00E+00	1.00E-01	2.15E-02	2.60E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	6.54E-05	0.00E+00	2.16E-02	0.00E+00	NA	4.26E-04	NA	2.97E-03	0.00E+00	6.28E-03	1.34E-03	3.27E-02	8.00E+00	4.08E-03	8.00E+01	4.08E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	5.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-03	8.80E+01	5.76E-05	2.84E+02	1.78E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	8.59E-02	mg/kg	1.00E+00		7.50E-01	5.60E+00	NA	1.14E+00	1.14E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	9.23E-05	NA	7.50E-05	0.00E+00	3.52E-05	7.54E-06	2.26E-04	1.00E+00	2.26E-04	3.00E+00	7.52E-05
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.28E-08	0.00E+00	0.00E+00	4.28E-07	0.00E+00	6.29E-10	0.00E+00	9.36E-07	2.01E-07	1.61E-06	7.00E-02	2.30E-05	7.00E-01	2.30E-06
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.73E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.51E-02	6.51E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	1.57E-03	0.00E+00	3.87E-04	0.00E+00	3.01E-03	6.46E-04	7.01E-03	4.00E+01	1.75E-04	8.00E+01	8.76E-05
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	1.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.66E-03	0.00E+00	1.80E-04	0.00E+00	0.00E+00	5.77E-05	0.00E+00	1.61E-04	0.00E+00	4.97E-04	1.06E-04	8.66E-03	5.07E+02	1.71E-05	1.13E+03	7.67E-06
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-04	5.07E+02	1.75E-06	1.13E+03	7.86E-07
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.13E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.61E-07	0.00E+00	0.00E+00	5.00E-06	0.00E+00	3.97E-07	0.00E+00	1.23E-05	2.63E-06	2.09E-05	2.10E+00	9.94E-06	6.30E+00	3.31E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.68E-08	0.00E+00	0.00E+00	3.44E-07	0.00E+00	4.31E-09	0.00E+00	8.04E-07	1.72E-07	1.36E-06	2.40E-01	5.67E-06	2.40E+00	5.67E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00			3.00E-01	NA	2.34E+01	2.34E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	9.40E-06	NA	2.94E-03	0.00E+00	8.10E-05	1.74E-05	3.08E-03	8.50E+00	3.62E-04	2.55E+01	1.21E-04
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.94E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E+00	1.51E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	1.22E-04	0.00E+00	2.19E-04	0.00E+00	4.02E-04	8.61E-05	9.36E-04	2.00E-01	4.68E-03	3.30E-01	2.83E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	3.53E-04	0.00E+00	3.41E-03	0.00E+00	1.05E-02	2.25E-03	2.03E-02	2.63E+02	7.72E-05	7.89E+02	2.57E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	2.41E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.22E-02	0.00E+00	4.32E-02	0.00E+00	0.00E+00	1.39E-02	0.00E+00	3.88E-02	0.00E+00	1.19E-01	2.56E-02	3.23E-01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	2.08E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.22E-04	0.00E+00	3.74E-03	0.00E+00	0.00E+00	1.68E-04	0.00E+00	5.76E-05	0.00E+00	5.12E-04	1.10E-04	5.01E-03	2.10E-01	2.38E-02	2.10E+00	2.38E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.15E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	9.42E-01	9.42E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	7.45E-03	0.00E+00	0.00E+00	3.82E-03	0.00E+00	3.00E-02	0.00E+00	3.42E-02	7.34E-03	8.29E-02	1.60E+02	5.18E-04	3.20E+02	2.59E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	5.7E+00	2.8E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-03	5.1E-04
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.1E-05	4.3E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	8.3E-04	8.2E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.9E-04	6.3E-05
**Aldrin/Dieldrin/Endrin EEQ

Table O-167
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-01	0.00E+00	0.00E+00	0.00E+00	5.56E-01	2.68E+00	2.07E-01	1.33E+01	4.18E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-03	0.00E+00	0.00E+00	0.00E+00	9.30E-03	1.13E-01	8.23E-02	2.64E-01	3.52E-02
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.18E-09	6.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-09	2.44E-09	1.33E-09	0.00E+00	0.00E+00	6.74E-08	1.00E-06	6.74E-02	1.00E-05	6.74E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00	2.00E-01	5.76E+00	3.00E-01	3.84E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-02	0.00E+00	0.00E+00	0.00E+00	2.50E-02	2.00E-01	1.25E-01	1.50E+00	1.67E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-02	0.00E+00	0.00E+00	0.00E+00	4.17E-02	2.00E-01	2.09E-01	6.00E-01	6.95E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-07	0.00E+00	0.00E+00	0.00E+00	3.61E-07	8.00E-01	4.51E-07	4.00E+00	9.02E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	9.36E-06	8.00E-01	1.17E-05	4.00E+00	2.34E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-07	0.00E+00	0.00E+00	0.00E+00	1.67E-07	8.00E-01	2.09E-07	4.00E+00	4.18E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-08	0.00E+00	0.00E+00	0.00E+00	8.57E-08	4.58E+00	1.87E-08	9.16E+00	9.36E-09
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.93E-01	6.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-01	1.52E-01	7.36E-01	0.00E+00	0.00E+00	6.90E+01	1.93E+00	3.58E+01	1.93E+01	3.58E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	1.32E-03	1.25E-01	1.05E-02	1.25E+00	1.05E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06	0.00E+00	0.00E+00	0.00E+00	4.00E-06	6.85E-02	5.84E-05	6.85E-01	5.84E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-07	0.00E+00	0.00E+00	0.00E+00	3.87E-07	6.80E-02	5.70E-06	6.80E-01	5.70E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-08	0.00E+00	0.00E+00	0.00E+00	8.86E-08	6.80E-02	1.30E-06	6.80E-01	1.30E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E+00	5.41E+00	3.19E+00	0.00E+00	0.00E+00	1.27E+01	5.10E+00	2.49E+00	1.98E+01	6.41E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.11E-01	9.22E-01	9.22E-01	2.42E-04	3.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02	3.17E-03	1.47E-02	0.00E+00	0.00E+00	3.65E-02	1.00E+00	3.65E-02	1.00E+01	3.65E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-02	0.00E+00	0.00E+00	0.00E+00	5.57E-02	2.74E+03	2.04E-05	2.74E+04	2.04E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04	0.00E+00	0.00E+00	0.00E+00	7.91E-04	3.28E+00	2.41E-04	1.31E+01	6.02E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	5.86E-01	1.49E-01	1.49E-01	1.15E-03	4.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-01	3.98E-02	1.39E-01	0.00E+00	0.00E+00	3.69E-01	1.17E+01	3.15E-02	1.51E+01	2.44E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-07	0.00E+00	0.00E+00	0.00E+00	1.23E-07	9.20E-02	1.34E-06	9.20E-01	1.34E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	2.90E-05	8.00E-02	3.63E-04	2.90E-01	1.00E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-02	0.00E+00	0.00E+00	0.00E+00	8.76E-02	1.00E+00	8.76E-02	5.00E+00	1.75E-02
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.80E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-01	0.00E+00	0.00E+00	0.00E+00	9.56E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-02	0.00E+00	2.84E-02	0.00E+00	0.00E+00	5.71E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	5.03E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.53E-02	NA	0.00E+00	0.00E+00	3.58E-02	8.00E+00	4.48E-03	8.00E+01	4.48E-04
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-02	8.80E+01	5.01E-04	2.84E+02	1.55E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.48E-02	0.00E+00	0.00E+00	0.00E+00	8.18E-04	1.32E+01	6.20E-05	3.96E+01	2.07E-05
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	1.08E+00			0.00E+00	6.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	NA	3.42E-03	0.00E+00	0.00E+00	7.50E-03	3.20E-02	2.34E-01	1.60E-01	4.69E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-08	0.00E+00	0.00E+00	0.00E+00	8.87E-08	7.00E-02	1.27E-06	7.00E-01	1.27E-07
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.21E-02	1.01E-01	1.01E-01	0.00E+00	6.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-02	3.60E-03	1.91E-02	0.00E+00	0.00E+00	1.06E-01	4.00E+01	2.65E-03	8.00E+01	1.33E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.42E-02	8.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-03	2.76E-03	1.50E-03	0.00E+00	0.00E+00	9.09E-02	5.07E+02	1.79E-04	1.13E+03	8.04E-05
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-03	5.07E+02	1.35E-05	1.13E+03	6.07E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-06	0.00E+00	0.00E+00	0.00E+00	4.86E-06	2.10E+00	2.31E-06	6.30E+00	7.71E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-08	0.00E+00	0.00E+00	0.00E+00	7.31E-08	2.40E-01	3.05E-07	2.40E+00	3.05E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.48E-02	0.00E+00	0.00E+00	0.00E+00	2.48E-02	8.50E+00	2.92E-03	2.55E+01	9.72E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.99E-01	1.95E-01	1.95E-01	0.00E+00	5.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-02	2.41E-03	1.43E-02	0.00E+00	0.00E+00	3.70E-02	2.00E-01	1.85E-01	3.30E-01	1.12E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-02	0.00E+00	0.00E+00	0.00E+00	8.41E-02	2.63E+02	3.20E-04	7.89E+02	1.07E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.92E-01	1.38E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-01	2.67E-01	2.31E-01	0.00E+00	0.00E+00	1.46E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	4.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	7.40E-03	6.63E-01	7.40E-02	6.63E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	3.86E-03	2.10E-01	1.84E-02	2.10E+00	1.84E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	9.78E-01	4.51E-01	4.51E-01	0.00E+00	2.63E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E+00	3.60E-01	1.23E+00	0.00E+00	0.00E+00	3.09E+00	1.60E+02	1.93E-02	3.20E+02	9.65E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	6.1E+00	3.9E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.9E-08	9.4E-09
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.2E-05	2.5E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.5E-05	6.5E-06
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/Endrin E

Table O-168
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-01	0.00E+00	0.00E+00	0.00E+00	2.13E-01	2.68E+00	7.93E-02	1.33E+01	1.60E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	4.85E-03	1.13E-01	4.29E-02	2.64E-01	1.84E-02
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.04E-09	3.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-10	8.99E-10	7.15E-10	0.00E+00	0.00E+00	0.00E+00	4.19E-08	1.00E-06	4.19E-02	1.00E-05	4.19E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-01	0.00E+00	0.00E+00	0.00E+00	2.89E-01	2.00E-01	1.45E+00	3.00E-01	9.64E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-03	0.00E+00	0.00E+00	0.00E+00	8.68E-03	2.00E-01	4.34E-02	1.50E+00	5.79E-03
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	0.00E+00	1.94E-02	2.00E-01	9.71E-02	6.00E-01	3.24E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-08	0.00E+00	0.00E+00	0.00E+00	9.35E-08	8.00E-01	1.17E-07	4.00E+00	2.34E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	0.00E+00	1.47E-06	8.00E-01	1.84E-06	4.00E+00	3.68E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-08	0.00E+00	0.00E+00	0.00E+00	4.07E-08	8.00E-01	5.09E-08	4.00E+00	1.02E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	1.62E-08	4.58E+00	3.54E-09	9.16E+00	1.77E-09
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.04E-01	5.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-01	7.65E-02	4.00E-01	0.00E+00	0.00E+00	5.71E+01	1.93E+00	2.96E+01	1.93E+01	2.96E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	5.59E-04	1.25E-01	4.48E-03	1.25E+00	4.48E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-07	0.00E+00	0.00E+00	0.00E+00	1.37E-07	6.85E-02	1.99E-06	6.85E-01	1.99E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	4.21E-03	mg/kg	1.00E+00	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07	0.00E+00	0.00E+00	0.00E+00	1.10E-07	6.80E-02	1.62E-06	6.80E-01	1.62E-07
Aroclor 1260	0.00E+00	mg/L	1.94E-03	mg/kg	1.00E+00	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-09	0.00E+00	0.00E+00	0.00E+00	9.14E-09	6.80E-02	1.34E-07	6.80E-01	1.34E-08
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	8.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E+00	2.85E+00	2.84E+00	0.00E+00	0.00E+00	9.36E+00	5.10E+00	1.83E+00	1.98E+01	4.73E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.80E-01	6.72E-01	6.72E-01	2.02E-04	3.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	3.00E-03	1.33E-02	0.00E+00	0.00E+00	3.29E-02	1.00E+00	3.29E-02	1.00E+01	3.29E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03	0.00E+00	0.00E+00	0.00E+00	4.34E-03	2.74E+03	1.58E-06	2.74E+04	1.58E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	6.16E-05	3.28E+00	1.88E-05	1.31E+01	4.69E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	6.44E-01	8.97E-02	8.97E-02	9.04E-04	4.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-01	3.64E-02	1.31E-01	0.00E+00	0.00E+00	3.42E-01	1.17E+01	2.92E-02	1.51E+01	2.26E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-08	0.00E+00	0.00E+00	0.00E+00	6.37E-08	9.20E-02	6.93E-07	9.20E-01	6.93E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	1.77E-05	8.00E-02	2.22E-04	2.90E-01	6.11E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-02	0.00E+00	0.00E+00	0.00E+00	6.35E-02	1.00E+00	6.35E-02	5.00E+00	1.27E-02
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.05E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-01	0.00E+00	0.00E+00	0.00E+00	7.34E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	4.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-02	0.00E+00	2.80E-02	0.00E+00	0.00E+00	5.64E-02	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	3.97E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	2.99E-02	NA	0.00E+00	0.00E+00	3.03E-02	8.00E+00	3.79E-03	8.00E+01	3.79E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	3.07E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-02	8.80E+01	3.49E-04	2.84E+02	1.08E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	7.36E-04	NA	0.00E+00	0.00E+00	7.36E-04	1.32E+01	5.57E-05	3.96E+01	1.86E-05
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	1.15E+00			0.00E+00	5.75E-04	0.00E+00	0.00E+00	0.00E+00	NA	3.18E-03	NA	3.18E-03	0.00E+00	0.00E+00	6.93E-03	3.20E-02	2.16E-01	1.60E-01	4.33E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-09	0.00E+00	0.00E+00	0.00E+00	6.23E-09	7.00E-02	8.90E-08	7.00E-01	8.90E-09
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.43E-02	8.71E-02	8.71E-02	0.00E+00	5.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-02	3.44E-03	1.72E-02	0.00E+00	0.00E+00	9.39E-02	4.00E+01	2.35E-03	8.00E+01	1.17E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.65E-02	6.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-04	9.43E-04	6.58E-04	0.00E+00	0.00E+00	4.94E-02	5.07E+02	9.75E-05	1.13E+03	4.37E-05
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-03	5.07E+02	1.06E-05	1.13E+03	4.77E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06	0.00E+00	0.00E+00	0.00E+00	3.88E-06	2.10E+00	1.85E-06	6.30E+00	6.17E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-08	0.00E+00	0.00E+00	0.00E+00	4.51E-08	2.40E-01	1.88E-07	2.40E+00	1.88E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.06E-02	0.00E+00	0.00E+00	0.00E+00	2.06E-02	8.50E+00	2.42E-03	2.55E+01	8.08E-04
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.92E-01	1.51E-01	1.51E-01	0.00E+00	5.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	2.11E-03	1.22E-02	0.00E+00	0.00E+00	3.17E-02	2.00E-01	1.58E-01	3.30E-01	9.60E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-02	0.00E+00	0.00E+00	0.00E+00	3.77E-02	2.63E+02	1.43E-04	7.89E+02	4.78E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.99E-01	9.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-02	6.38E-02	9.62E-02	0.00E+00	0.00E+00	8.51E-01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	4.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-03	7.40E-03	5.72E-01	7.40E-02	5.72E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	3.06E-03	2.10E-01	1.46E-02	2.10E+00	1.46E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	1.05E+00	1.84E-01	1.84E-01	0.00E+00	2.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+00	3.16E-01	1.12E+00	0.00E+00	0.00E+00	2.78E+00	1.60E+02	1.74E-02	3.20E+02	8.68E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.6E+00	1.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	3.5E-09	1.8E-09
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-06	4.0E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.8E-06	3.8E-07
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	6.

Table O-169
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-03	8.32E-03	2.68E+00	3.11E-03	1.33E+01	6.25E-04
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	2.34E-04	1.13E-01	2.07E-03	2.64E-01	8.86E-04
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	3.55E-10	1.97E-09	0.00E+00	3.19E-05	1.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-09	3.20E-05	1.00E-06	3.20E+01	1.00E-05	3.20E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-01	4.83E-01	2.00E-01	2.41E+00	3.00E-01	1.61E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-03	1.21E-03	2.00E-01	6.04E-03	1.50E+00	8.06E-04
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	2.36E-03	2.00E-01	1.18E-02	6.00E-01	3.94E-03
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-07	6.05E-07	8.00E-01	7.56E-07	4.00E+00	1.51E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-06	1.75E-06	8.00E-01	2.18E-06	4.00E+00	4.37E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-07	4.05E-07	8.00E-01	5.06E-07	4.00E+00	1.01E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-07	2.85E-07	4.58E+00	6.22E-08	9.16E+00	3.11E-08
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.78E-01	2.15E+00	0.00E+00	4.04E-01	3.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-02	4.00E+01	1.93E+00	2.07E+01	1.93E+01	2.07E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	3.64E-04	1.25E-01	2.91E-03	1.25E+00	2.91E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06	3.29E-06	6.85E-02	4.80E-05	6.85E-01	4.80E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-06	5.41E-06	6.80E-02	7.96E-05	6.90E-01	7.84E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	4.35E-06	6.80E-02	6.40E-05	6.90E-01	6.31E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.94E-02	0.00E+00	0.00E+00	5.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-02	5.66E-01	5.10E+00	1.11E-01	1.98E+01	2.86E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	7.24E-05	1.22E-04	0.00E+00	6.23E-02	3.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E-04	6.66E-02	1.00E+00	6.66E-02	1.00E+01	6.66E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03	4.50E-03	2.74E+03	1.65E-06	2.74E+04	1.65E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	6.40E-05	3.28E+00	1.95E-05	1.31E+01	4.87E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	3.44E-04	1.60E-03	0.00E+00	1.07E+00	3.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	1.11E+00	1.17E+01	9.48E-02	1.51E+01	7.33E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-07	4.55E-07	9.20E-02	4.95E-06	9.20E-01	4.95E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	2.06E-04	8.00E-02	2.58E-03	2.90E-01	7.11E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-03	1.40E-03	1.00E+00	1.40E-03	5.00E+00	2.80E-04
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.74E-01	0.00E+00	0.00E+00	9.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-02	9.20E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.35E-05	0.00E+00	0.00E+00	1.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.51E-04	0.00E+00	0.00E+00	1.19E-01	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.02E-03	1.22E-01	8.00E+00	1.52E-02	8.00E+01	1.52E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.32E-02	0.00E+00	0.00E+00	1.40E+01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+01	8.80E+01	1.59E-01	2.84E+02	4.92E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.65E-06	9.65E-06	1.00E+00	9.65E-06	3.00E+00	3.22E-06
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.13E-05	0.00E+00	0.00E+00	6.13E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	8.26E-05	1.50E-02	5.50E-03	2.50E-02	3.30E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-07	3.46E-07	7.00E-02	4.94E-06	7.00E-01	4.94E-07
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	2.07E-03	0.00E+00	0.00E+00	1.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-04	2.12E-02	4.00E+01	5.30E-04	8.00E+01	2.65E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.52E-02	2.88E-05	0.00E+00	1.42E+01	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	1.43E+01	5.07E+02	2.81E-02	1.13E+03	1.26E-02
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.06E-03	0.00E+00	0.00E+00	1.16E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00	5.07E+02	2.29E-03	1.13E+03	1.03E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-06	3.45E-06	2.10E+00	1.64E-06	6.30E+00	5.48E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-07	2.93E-07	2.40E-01	1.22E-06	2.40E+00	1.22E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.87E-05	1.87E-05	8.50E+00	2.20E-06	2.55E+01	7.35E-07
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	1.92E-04	0.00E+00	0.00E+00	3.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	3.63E-03	2.00E-01	1.82E-02	3.30E-01	1.10E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-03	4.65E-03	2.63E+02	1.77E-05	7.89E+02	5.89E-06
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.77E-01	4.43E-03	0.00E+00	9.99E+01	3.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02	1.00E+02	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.58E-04	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	7.40E-03	3.91E-01	7.40E-02	3.91E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	9.70E-04	0.00E+00	0.00E+00	5.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	5.48E-01	2.10E-01	2.61E+00	2.10E+00	2.61E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	8.47E-03	0.00E+00	0.00E+00	2.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-02	2.78E-01	1.60E+02	1.74E-03	3.20E+02	8.68E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.4E+00	1.6E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	6.2E-08	3.1E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.4E-06	6.9E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.9E-04	1.9E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/End

Table O-170
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	2.85E-03	2.68E+00	1.06E-03	1.33E+01	2.14E-04
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05	8.24E-05	1.13E-01	7.29E-04	2.64E-01	3.12E-04
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.29E-10	9.15E-10	0.00E+00	2.79E-06	1.64E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-10	2.81E-06	1.00E-06	2.81E+00	1.00E-05	2.81E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	1.36E-01	2.00E-01	6.82E-01	3.00E-01	4.55E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	3.07E-04	2.00E-01	1.53E-03	1.50E+00	2.05E-04
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	6.87E-04	2.00E-01	3.43E-03	6.00E-01	1.14E-03
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-07	2.51E-07	8.00E-01	3.14E-07	4.00E+00	6.28E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-07	8.76E-07	8.00E-01	1.09E-06	4.00E+00	2.19E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	1.11E-07	8.00E-01	1.39E-07	4.00E+00	2.77E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-07	1.31E-07	4.58E+00	2.85E-08	9.16E+00	1.43E-08
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.93E-02	1.32E+00	0.00E+00	2.03E-01	2.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-02	2.46E+01	1.93E+00	1.27E+01	1.93E+01	1.27E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	1.44E-04	1.25E-01	1.15E-03	1.25E+00	1.15E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-06	1.23E-06	6.85E-02	1.79E-05	6.85E-01	1.79E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-06	1.32E-06	6.80E-02	1.94E-05	6.90E-01	1.91E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-06	2.04E-06	6.80E-02	3.00E-05	6.90E-01	2.96E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.93E-02	0.00E+00	0.00E+00	3.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-03	3.61E-01	5.10E+00	7.07E-02	1.98E+01	1.82E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	4.48E-05	7.49E-05	0.00E+00	2.71E-02	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	2.76E-02	1.00E+00	2.76E-02	1.00E+01	2.76E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-04	7.69E-04	2.74E+03	2.81E-07	2.74E+04	2.81E-08
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	1.09E-05	3.28E+00	3.33E-06	1.31E+01	8.30E-07
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	2.00E-04	1.01E-03	0.00E+00	1.17E-01	6.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-04	1.25E-01	1.17E+01	1.07E-02	1.51E+01	8.27E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-07	2.42E-07	9.20E-02	2.63E-06	9.20E-01	2.63E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05	8.40E-05	8.00E-02	1.05E-03	2.90E-01	2.90E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	5.70E-04	1.00E+00	5.70E-04	5.00E+00	1.14E-04
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.97E-02	0.00E+00	0.00E+00	1.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-02	1.19E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	9.99E-06	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	8.79E-05	0.00E+00	0.00E+00	2.08E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.69E-04	2.18E-02	8.00E+00	2.73E-03	8.00E+01	2.73E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.80E-03	0.00E+00	0.00E+00	8.97E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-01	8.80E+01	1.03E-02	2.84E+02	3.18E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.19E-06	5.19E-06	1.00E+00	5.19E-06	3.00E+00	1.73E-06
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.37E-05	0.00E+00	0.00E+00	3.94E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.31E-05	1.50E-02	3.54E-03	2.50E-02	2.12E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-07	1.36E-07	7.00E-02	1.95E-06	7.00E-01	1.95E-07
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	1.33E-03	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-04	4.20E-03	4.00E+01	1.05E-04	8.00E+01	5.25E-05
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-02	1.56E-05	0.00E+00	1.63E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-05	1.64E+00	5.07E+02	3.24E-03	1.13E+03	1.45E-03
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.19E-03	0.00E+00	0.00E+00	1.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	5.07E+02	3.76E-04	1.13E+03	1.69E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-06	1.77E-06	2.10E+00	8.42E-07	6.30E+00	2.81E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-07	1.24E-07	2.40E-01	5.16E-07	2.40E+00	5.16E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	6.73E-06	6.73E-06	8.50E+00	7.92E-07	2.55E+01	2.64E-07
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	1.23E-04	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	2.31E-03	2.00E-01	1.15E-02	3.30E-01	6.99E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-03	1.71E-03	2.63E+02	6.50E-06	7.89E+02	2.17E-06
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.10E-01	2.27E-03	0.00E+00	1.75E+01	3.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-03	1.76E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.01E-04	0.00E+00	0.00E+00	1.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-03	7.40E-03	2.49E-01	7.40E-02	2.49E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.67E-04	0.00E+00	0.00E+00	9.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-05	9.06E-02	2.10E-01	4.32E-01	2.10E+00	4.32E-02
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	5.27E-03	0.00E+00	0.00E+00	3.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-03	5.02E-02	1.60E+02	3.14E-04	3.20E+02	1.57E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	6.9E-01	4.6E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.9E-08	1.4E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-06	3.1E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.7E-05	6.7E-06
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/Endrin EEQ

Table O-171
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	EEQ N	LOAEL	EEQ L
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	2.68E+00	7.85E-01	1.33E+01	1.58E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-02	0.00E+00	0.00E+00	0.00E+00	3.52E-02	1.13E-01	3.12E-01	2.64E-01	1.33E-01
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-09	0.00E+00	0.00E+00	0.00E+00	9.97E-09	1.00E-06	9.97E-03	1.00E-05	9.97E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00	2.00E-01	2.18E+01	3.00E-01	1.45E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-02	0.00E+00	0.00E+00	0.00E+00	9.48E-02	2.00E-01	4.74E-01	1.50E+00	6.32E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-01	0.00E+00	0.00E+00	0.00E+00	1.58E-01	2.00E-01	7.90E-01	6.00E-01	2.63E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	1.37E-06	8.00E-01	1.71E-06	4.00E+00	3.42E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	3.54E-05	8.00E-01	4.43E-05	4.00E+00	8.86E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-07	0.00E+00	0.00E+00	0.00E+00	6.34E-07	8.00E-01	7.92E-07	4.00E+00	1.58E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-07	0.00E+00	0.00E+00	0.00E+00	3.24E-07	4.58E+00	7.08E-08	9.16E+00	3.54E-08
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	3.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-01	0.00E+00	0.00E+00	0.00E+00	9.34E-01	1.93E+00	4.84E-01	1.93E+01	4.84E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03	0.00E+00	0.00E+00	0.00E+00	4.99E-03	1.25E-01	3.99E-02	1.25E+00	3.99E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	1.51E-05	6.85E-02	2.21E-04	6.85E-01	2.21E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	0.00E+00	1.47E-06	6.80E-02	2.16E-05	6.80E-01	2.16E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-07	0.00E+00	0.00E+00	0.00E+00	3.35E-07	6.80E-02	4.93E-06	6.80E-01	4.93E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E+01	0.00E+00	0.00E+00	0.00E+00	2.05E+01	5.10E+00	4.02E+00	1.98E+01	1.03E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	1.21E-02	1.00E+00	1.21E-02	1.00E+01	1.21E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-01	0.00E+00	0.00E+00	0.00E+00	2.11E-01	2.74E+03	7.71E-05	2.74E+04	7.71E-06
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	0.00E+00	0.00E+00	0.00E+00	3.00E-03	3.28E+00	9.14E-04	1.31E+01	2.28E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	6.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-01	0.00E+00	0.00E+00	0.00E+00	1.51E-01	1.17E+01	1.29E-02	1.51E+01	9.99E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	2.00E-02	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-07	0.00E+00	0.00E+00	0.00E+00	4.65E-07	9.20E-02	5.06E-06	9.20E-01	5.06E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.10E-04	8.00E-02	1.37E-03	2.90E-01	3.79E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-01	0.00E+00	0.00E+00	0.00E+00	3.32E-01	1.00E+00	3.32E-01	5.00E+00	6.63E-02
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.50E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E+00	0.00E+00	0.00E+00	0.00E+00	1.77E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	3.03E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	1.34E-01	0.00E+00	0.00E+00	0.00E+00	1.34E-01	8.00E+00	1.68E-02	8.00E+01	1.68E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-02	8.80E+01	3.02E-04	2.84E+02	9.37E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	3.10E-03	0.00E+00	0.00E+00	0.00E+00	3.10E-03	1.32E+01	2.35E-04	3.96E+01	7.82E-05
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-07	0.00E+00	0.00E+00	0.00E+00	3.36E-07	7.00E-02	4.80E-06	7.00E-01	4.80E-07
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	1.36E-02	4.00E+01	3.41E-04	8.00E+01	1.71E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	6.13E-02	5.07E+02	1.21E-04	1.13E+03	5.42E-05
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-03	5.07E+02	8.16E-06	1.13E+03	3.66E-06
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	1.84E-05	2.10E+00	8.76E-06	6.30E+00	2.92E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-07	0.00E+00	0.00E+00	0.00E+00	2.77E-07	2.40E-01	1.15E-06	2.40E+00	1.15E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	9.38E-02	0.00E+00	0.00E+00	0.00E+00	9.38E-02	8.50E+00	1.10E-02	2.55E+01	3.68E-03
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-03	0.00E+00	0.00E+00	0.00E+00	9.14E-03	2.00E-01	4.57E-02	3.30E-01	2.77E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-01	0.00E+00	0.00E+00	0.00E+00	3.19E-01	2.63E+02	1.21E-03	7.89E+02	4.04E-04
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	4.33E-03	2.10E-01	2.06E-02	2.10E+00	2.06E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+00	1.60E+02	8.53E-03	3.20E+02	4.27E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.3E+01	1.5E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	7.1E-08	3.5E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.7E-05	9.4E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.5E-04	2.5E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:

Table O-172
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-01	0.00E+00	0.00E+00	0.00E+00	2.68E-01	2.68E+00	1.00E-01	1.33E+01	2.02E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-03	0.00E+00	0.00E+00	0.00E+00	6.11E-03	1.13E-01	5.41E-02	2.64E-01	2.32E-02
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	1.34E-09	1.00E-06	1.34E-03	1.00E-05	1.34E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-01	0.00E+00	0.00E+00	0.00E+00	3.65E-01	2.00E-01	1.82E+00	3.00E-01	1.22E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	1.10E-02	2.00E-01	5.48E-02	1.50E+00	7.30E-03
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	0.00E+00	0.00E+00	2.45E-02	2.00E-01	1.23E-01	6.00E-01	4.08E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-07	0.00E+00	0.00E+00	0.00E+00	1.18E-07	8.00E-01	1.48E-07	4.00E+00	2.95E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-06	0.00E+00	0.00E+00	0.00E+00	1.86E-06	8.00E-01	2.32E-06	4.00E+00	4.65E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-08	0.00E+00	0.00E+00	0.00E+00	5.14E-08	8.00E-01	6.43E-08	4.00E+00	1.29E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-08	0.00E+00	0.00E+00	0.00E+00	2.04E-08	4.58E+00	4.46E-09	9.16E+00	2.23E-09
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-02	0.00E+00	0.00E+00	0.00E+00	1.78E-01	1.93E+00	9.21E-02	1.93E+01	9.21E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	7.06E-04	1.25E-01	5.65E-03	1.25E+00	5.65E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07	0.00E+00	0.00E+00	0.00E+00	1.72E-07	6.85E-02	2.52E-06	6.85E-01	2.52E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-07	0.00E+00	0.00E+00	0.00E+00	1.39E-07	6.80E-02	2.05E-06	6.80E-01	2.05E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	1.15E-08	6.80E-02	1.70E-07	6.80E-01	1.70E-08
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00	5.10E+00	7.06E-01	1.98E+01	1.82E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-03	0.00E+00	0.00E+00	0.00E+00	3.83E-03	1.00E+00	3.83E-03	1.00E+01	3.83E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03	0.00E+00	0.00E+00	0.00E+00	5.47E-03	2.74E+03	2.00E-06	2.74E+04	2.00E-07
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	7.77E-05	3.28E+00	2.37E-05	1.31E+01	5.91E-06
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-02	0.00E+00	0.00E+00	0.00E+00	4.62E-02	1.17E+01	3.94E-03	1.51E+01	3.05E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-08	0.00E+00	0.00E+00	0.00E+00	8.04E-08	9.20E-02	8.74E-07	9.20E-01	8.74E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-05	8.00E-02	2.80E-04	2.90E-01	7.71E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-02	0.00E+00	0.00E+00	0.00E+00	8.01E-02	1.00E+00	8.01E-02	5.00E+00	1.60E-02
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-01	0.00E+00	0.00E+00	0.00E+00	4.96E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	7.99E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.77E-02	0.00E+00	0.00E+00	0.00E+00	3.78E-02	8.00E+00	4.73E-03	8.00E+01	4.73E-04
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-03	8.80E+01	7.03E-05	2.84E+02	2.18E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	9.29E-04	0.00E+00	0.00E+00	0.00E+00	9.29E-04	1.32E+01	7.03E-05	3.96E+01	2.34E-05
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-09	0.00E+00	0.00E+00	0.00E+00	7.86E-09	7.00E-02	1.12E-07	7.00E-01	1.12E-08
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-03	0.00E+00	0.00E+00	0.00E+00	4.35E-03	4.00E+01	1.09E-04	8.00E+01	5.43E-05
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	1.05E-02	5.07E+02	2.08E-05	1.13E+03	9.33E-06
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-03	5.07E+02	2.14E-06	1.13E+03	9.59E-07
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-06	0.00E+00	0.00E+00	0.00E+00	4.90E-06	2.10E+00	2.33E-06	6.30E+00	7.78E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-08	0.00E+00	0.00E+00	0.00E+00	5.69E-08	2.40E-01	2.37E-07	2.40E+00	2.37E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.60E-02	0.00E+00	0.00E+00	0.00E+00	2.60E-02	8.50E+00	3.06E-03	2.55E+01	1.02E-03
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	2.67E-03	2.00E-01	1.33E-02	3.30E-01	8.08E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-02	0.00E+00	0.00E+00	0.00E+00	4.76E-02	2.63E+02	1.81E-04	7.89E+02	6.04E-05
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-02	0.00E+00	0.00E+00	0.00E+00	1.81E-01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	0.00E+00	7.40E-02	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	0.00E+00	0.00E+00	1.15E-03	2.10E-01	5.46E-03	2.10E+00	5.46E-04
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-01	0.00E+00	0.00E+00	0.00E+00	3.98E-01	1.60E+02	2.49E-03	3.20E+02	1.24E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.0E+00	1.3E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.5E-09	2.2E-09
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.5E-06	5.1E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.7E-06	4.7E-07
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/Endrin EEQ:

Table O-173
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.44E-10	1.41E-09	0.00E+00	3.63E-06	3.09E-08	0.00E+00	4.49E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-06	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.22E-01	1.54E+00	0.00E+00	4.59E-02	6.93E+00	0.00E+00	2.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.10E-02	0.00E+00	0.00E+00	9.46E-02	0.00E+00	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.11E-01	9.22E-01	9.22E-01	4.97E-05	8.70E-05	0.00E+00	7.09E-03	6.96E-04	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	5.86E-01	1.49E-01	1.49E-01	2.36E-04	1.14E-03	0.00E+00	1.22E-01	6.01E-03	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-01	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.20E-01	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	9.68E-06	0.00E+00	0.00E+00	2.12E-04	0.00E+00	9.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	1.04E-04	0.00E+00	0.00E+00	1.36E-02	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	1.37E-02	NA	NA	NA	NA
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.09E-03	0.00E+00	0.00E+00	1.59E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+00	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	1.08E+00			0.00E+00	1.52E-05	0.00E+00	0.00E+00	1.14E-05	NA	1.15E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.42E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.21E-02	1.01E-01	1.01E-01	0.00E+00	1.48E-03	0.00E+00	0.00E+00	3.44E-03	0.00E+00	6.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03	NA	NA	NA	NA
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.73E-02	2.06E-05	0.00E+00	1.62E+00	4.33E-05	0.00E+00	5.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E+00	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.41E-03	0.00E+00	0.00E+00	1.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.99E-01	1.95E-01	1.95E-01	0.00E+00	1.38E-04	0.00E+00	0.00E+00	6.20E-04	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.22E-01	3.17E-03	0.00E+00	1.14E+01	6.66E-03	0.00E+00	7.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.13E-04	0.00E+00	0.00E+00	5.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.66E-04	0.00E+00	0.00E+00	6.22E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	9.78E-01	4.51E-01	4.51E-01	0.00E+00	6.06E-03	0.00E+00	0.00E+00	4.57E-02	0.00E+00	4.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.5930505	acres
Water intake rate =	0.112	L/d
Site Area =	262	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-174
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.13E-10	8.87E-10	0.00E+00	4.31E-07	4.15E-09	0.00E+00	2.41E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-07	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	8.31E-02	1.28E+00	0.00E+00	3.12E-02	5.79E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.87E-02	0.00E+00	0.00E+00	8.44E-02	0.00E+00	9.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.80E-01	6.72E-01	6.72E-01	4.17E-05	7.26E-05	0.00E+00	4.18E-03	4.36E-05	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-03	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (hexavalent)	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	6.44E-01	8.97E-02	8.97E-02	1.86E-04	9.79E-04	0.00E+00	1.81E-02	1.53E-03	0.00E+00	4.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-02	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	8.35E-02	0.00E+00	0.00E+00	1.82E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	9.68E-06	0.00E+00	0.00E+00	4.53E-05	0.00E+00	9.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	8.18E-05	0.00E+00	0.00E+00	3.20E-03	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	3.29E-03	NA	NA	NA	NA
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.33E-03	0.00E+00	0.00E+00	1.38E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-01	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	1.15E+00			0.00E+00	1.33E-05	0.00E+00	0.00E+00	9.95E-06	NA	1.07E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.30E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.43E-02	8.71E-02	8.71E-02	0.00E+00	1.29E-03	0.00E+00	0.00E+00	6.27E-04	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	NA	NA	NA	NA
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.58E-03	1.51E-05	0.00E+00	2.52E-01	6.34E-06	0.00E+00	2.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.11E-03	0.00E+00	0.00E+00	2.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.92E-01	1.51E-01	1.51E-01	0.00E+00	1.19E-04	0.00E+00	0.00E+00	5.37E-04	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-01	2.20E-03	0.00E+00	2.70E+00	9.27E-04	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	9.74E-05	0.00E+00	0.00E+00	4.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	5.28E-04	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	1.05E+00	1.84E-01	1.84E-01	0.00E+00	5.11E-03	0.00E+00	0.00E+00	9.91E-03	0.00E+00	3.77E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	11.21854	acres
Water intake rate =	0.112	L/d
Site Area =	262	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-175
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	4.22E-01	3.50E-02	1.27E+00	1.17E-02
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.92E-09	2.09E-08	0.00E+00	0.00E+00	8.26E-06	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	1.40E-05	1.14E+00	1.40E-04	1.14E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-01	7.00E-02	1.19E+01	1.80E+00	4.64E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	2.80E-03	1.61E-02	2.80E-02	1.61E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	5.80E-02	2.62E-03	5.80E-01	2.62E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	2.80E-03	7.75E-03	2.80E-02	7.75E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	2.14E+00	1.01E-05	1.07E+01	2.02E-06
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.46E+00	2.28E+01	0.00E+00	0.00E+00	1.86E+03	5.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E+03	1.10E+02	1.72E+01	3.29E+02	5.73E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	4.10E-01	6.09E-04	1.23E+00	2.03E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	1.80E-01	2.54E-03	1.80E+00	2.54E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	1.80E-01	1.19E-03	1.80E+00	1.19E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	3.11E-01	0.00E+00	0.00E+00	2.53E+01	5.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E+01	2.08E+01	1.24E+00	4.17E+01	6.16E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	5.96E-04	1.29E-03	0.00E+00	0.00E+00	1.86E-01	5.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-01	1.45E+00	1.34E-01	2.00E+01	9.69E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	1.00E+00	1.44E-03	5.00E+00	2.88E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	2.83E-03	1.69E-02	0.00E+00	0.00E+00	1.61E+00	5.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E+00	4.70E+01	3.58E-02	6.17E+01	2.72E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	3.00E-01	1.05E-04	9.00E-01	3.52E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-02	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.43E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	1.44E-04	0.00E+00	0.00E+00	5.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.24E-03	0.00E+00	0.00E+00	0.00E+00	NA	1.56E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-02	1.13E+00	1.49E-02	1.13E+01	1.49E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-01	9.77E+02	1.11E-04	9.77E+03	1.11E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	4.50E-01	5.48E-03	9.00E-01	2.74E-03
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	2.25E-04	0.00E+00	0.00E+00	3.06E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.28E-03	6.40E-03	5.13E-01	6.40E-02	5.13E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	2.20E-02	0.00E+00	0.00E+00	9.20E-01	1.67E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	7.74E+01	1.43E-02	1.07E+02	1.04E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.08E-01	3.05E-04	0.00E+00	0.00E+00	1.16E-02	5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-01	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	1.07E+02	2.24E-06	3.20E+02	7.48E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	6.73E+00	3.18E-06	6.73E+01	3.18E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	6.50E+01	1.09E-05	1.30E+02	5.47E-06
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	2.04E-03	0.00E+00	0.00E+00	1.66E-01	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-01	1.80E+00	9.51E-02	5.40E+00	3.17E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-02	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.46E+00	4.70E-02	0.00E+00	0.00E+00	1.78E+00	5.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	1.68E-03	0.00E+00	0.00E+00	1.36E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	3.50E-01	3.94E-01	1.05E+00	1.31E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	7.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-02	1.14E+01	1.48E-03	3.42E+01	4.94E-04
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	8.99E-02	0.00E+00	0.00E+00	1.22E+01	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+01	1.45E+01	8.59E-01	1.31E+02	9.51E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.2E+01		4.6E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-05		2.0E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.6E-02		2.6E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.3E-03		5.8E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00		0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.1E-04		3.5E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BC

Table O-176
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-03	4.22E-01	1.27E-02	1.27E+00	4.23E-03
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.56E-09	1.32E-08	0.00E+00	0.00E+00	1.11E-06	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-06	1.40E-05	1.98E-01	1.40E-04	1.98E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-01	7.00E-02	6.01E+00	1.80E+00	2.34E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	2.80E-03	6.88E-03	2.80E-02	6.88E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	5.80E-02	1.08E-03	5.80E-01	1.08E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	2.80E-03	3.11E-03	2.80E-02	3.11E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	2.14E+00	4.75E-06	1.07E+01	9.50E-07
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	9.96E-01	1.90E+01	0.00E+00	0.00E+00	1.55E+03	1.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+03	1.10E+02	1.43E+01	3.29E+02	4.77E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	4.10E-01	2.34E-04	1.23E+00	7.78E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	1.80E-01	1.03E-03	1.80E+00	1.03E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	1.80E-01	5.00E-04	1.80E+00	5.00E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.78E-01	0.00E+00	0.00E+00	2.26E+01	3.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+01	2.08E+01	1.10E+00	4.17E+01	5.49E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	5.00E-04	1.08E-03	0.00E+00	0.00E+00	1.17E-02	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-02	1.45E+00	1.29E-02	2.00E+01	9.37E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	1.00E+00	1.31E-03	5.00E+00	2.63E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	2.23E-03	1.45E-02	0.00E+00	0.00E+00	4.09E-01	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.77E-01	4.70E+01	1.01E-02	6.17E+01	7.73E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	3.00E-01	4.40E-05	9.00E-01	1.47E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-02	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	1.44E-04	0.00E+00	0.00E+00	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-02	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	9.80E-04	0.00E+00	0.00E+00	0.00E+00	NA	1.15E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	1.13E+00	1.11E-02	1.13E+01	1.11E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	7.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.59E-02	9.77E+02	7.77E-05	9.77E+03	7.77E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	4.50E-01	5.13E-03	9.00E-01	2.57E-03
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	1.96E-04	0.00E+00	0.00E+00	2.66E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.86E-03	6.40E-03	4.47E-01	6.40E-02	4.47E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	1.91E-02	0.00E+00	0.00E+00	1.68E-01	3.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-01	7.74E+01	2.87E-03	1.07E+02	2.08E-03
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.15E-01	2.24E-04	0.00E+00	0.00E+00	1.70E-03	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	1.07E+02	1.18E-06	3.20E+02	3.94E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	6.73E+00	1.38E-06	6.73E+01	1.38E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	6.50E+01	2.11E-06	1.30E+02	1.05E-06
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	1.77E-03	0.00E+00	0.00E+00	1.44E-01	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-01	1.80E+00	8.25E-02	5.40E+00	2.75E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.23E+00	3.27E-02	0.00E+00	0.00E+00	2.48E-01	5.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	1.44E-03	0.00E+00	0.00E+00	1.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	3.50E-01	3.40E-01	1.05E+00	1.13E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	6.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	1.14E+01	8.84E-04	3.42E+01	2.95E-04
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	7.58E-02	0.00E+00	0.00E+00	2.65E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E+00	1.45E+01	1.96E-01	1.31E+02	2.17E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	6.0E+00	2.3E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.8E-06	9.5E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-02	1.1E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.8E-03	2.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	4.4E-05	1.5E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some B

Table O-177
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	3.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-01	4.22E-01	9.22E-01	1.27E+00	3.07E-01
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.22E-09	0.00E+00	9.41E-07	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	1.40E-05	1.44E+01	1.40E-04	1.44E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.30E+00	0.00E+00	0.00E+00	2.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E+01	7.00E-02	4.02E+02	1.80E+00	1.56E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.58E-02	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-02	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.09E-02	0.00E+00	0.00E+00	1.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-01	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.90E-06	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	2.80E-03	4.23E-01	2.80E-02	4.23E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	3.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	5.80E-02	6.88E-02	5.80E-01	6.88E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	3.66E-06	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	2.80E-03	2.04E-01	2.80E-02	2.04E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	2.14E+00	2.65E-04	1.07E+01	5.30E-05
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.11E-01	0.00E+00	1.16E+02	0.00E+00	0.00E+00	1.31E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E+02	1.10E+02	2.26E+00	3.29E+02	7.53E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.29E-02	0.00E+00	0.00E+00	3.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	6.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-03	4.10E-01	1.60E-02	1.23E+00	5.34E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	1.80E-01	6.68E-02	1.80E+00	6.68E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	5.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-03	1.80E-01	3.12E-02	1.80E+00	3.12E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	1.30E+01	0.00E+00	0.00E+00	1.35E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+01	2.08E+01	6.89E-01	4.17E+01	3.44E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	2.49E-04	0.00E+00	6.68E-03	0.00E+00	0.00E+00	1.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-01	1.45E+00	1.07E-01	2.00E+01	7.76E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	2.06E-01	0.00E+00	0.00E+00	3.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-01	1.00E+00	2.44E-01	5.00E+00	4.88E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	1.18E-03	0.00E+00	1.76E-01	0.00E+00	0.00E+00	1.40E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+00	4.70E+01	3.35E-02	6.17E+01	2.55E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	8.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	3.00E-01	2.77E-03	9.00E-01	9.24E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	4.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-01	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-02	0.00E+00	0.00E+00	2.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.98E-01	0.00E+00	1.64E+02	0.00E+00	0.00E+00	1.23E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.18E-04	0.00E+00	2.29E+00	0.00E+00	NA	4.07E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-02	9.77E+02	4.65E-05	9.77E+03	4.65E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	6.43E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-02	4.50E-01	1.46E-01	9.00E-01	7.30E-02
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.61E-02	0.00E+00	0.00E+00	4.37E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E+00	7.74E+01	5.77E-02	1.07E+02	4.17E-02
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.67E-02	0.00E+00	1.38E-02	0.00E+00	0.00E+00	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-01	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								7.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	6.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-03	1.07E+02	5.90E-05	3.20E+02	1.97E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	6.73E+00	8.34E-05	6.73E+01	8.34E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	1.86E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-02	6.50E+01	3.12E-04	1.30E+02	1.56E-04
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	8.68E-03	0.00E+00	0.00E+00	8.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-02	1.80E+00	5.26E-02	5.40E+00	1.75E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.21E-01	0.00E+00	0.00E+00	1.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.09E-01	0.00E+00	1.33E+00	0.00E+00	0.00E+00	1.46E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.33E-03	0.00E+00	2.75E-01	0.00E+00	0.00E+00	2.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-01	1.14E+01	4.49E-02	3.42E+01	1.50E-02
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	8.01E-01	0.00E+00	0.00E+00	3.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E+00	1.45E+01	3.10E-01	1.31E+02	3.43E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	4.0E+02	1.6E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.7E-04	5.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.0E-01	7.0E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.1E-01	1.5E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.8E-03	9.2E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BA

Table O-178
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF
									---Unitless---						
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02
Chromium (hexavalent)	NA														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01		
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA		
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02							
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02		
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00						
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01

Chemical	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	0.00E+00	6.62E-02	0.00E+00	0.00E+00	4.79E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	1.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-01	4.22E-01	3.35E-01	1.27E+00	1.12E-01
2,3,7,8-TCDD TEQ	1.07E-09	0.00E+00	4.06E-07	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	1.40E-05	3.10E+00	1.40E-04	3.10E-01
2,4,6-Trinitrotoluene	0.00E+00	0.00E+00	3.17E+00	0.00E+00	0.00E+00	1.10E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E+01	7.00E-02	2.02E+02	1.80E+00	7.86E+00
2,4-Dinitrotoluene	0.00E+00	0.00E+00	7.14E-03	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	0.00E+00	1.60E-02	0.00E+00	0.00E+00	5.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-02	NA	NA	NA	NA
4,4'-DDD	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	2.80E-03	1.82E-01	2.80E-02	1.82E-02
4,4'-DDE	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	5.80E-02	2.86E-02	5.80E-01	2.86E-03
4,4'-DDT	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	2.80E-03	8.20E-02	2.80E-02	8.20E-03
Aldrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	2.14E+00	1.25E-04	1.07E+01	2.51E-05
Aluminum	4.16E-01	0.00E+00	8.93E+01	0.00E+00	0.00E+00	3.69E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+02	1.10E+02	1.15E+00	3.29E+02	3.85E-01
Antimony	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	7.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	4.10E-01	6.16E-03	1.23E+00	2.05E-03
Aroclor 1248	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	4.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	1.80E-01	2.73E-02	1.80E+00	2.73E-03
Aroclor 1260	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	1.80E-01	1.32E-02	1.80E+00	1.32E-03
Aroclor 1268	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	0.00E+00	6.84E+00	0.00E+00	0.00E+00	9.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E+00	2.08E+01	3.73E-01	4.17E+01	1.86E-01
Benzoic Acid	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-04	0.00E+00	6.07E-03	0.00E+00	0.00E+00	1.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-01	1.45E+00	1.03E-01	2.00E+01	7.48E-03
Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	0.00E+00	1.88E-01	0.00E+00	0.00E+00	3.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-01	1.00E+00	2.22E-01	5.00E+00	4.44E-02
Chromium (hexavalent)																
cis-Nonachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	9.31E-04	0.00E+00	1.40E-01	0.00E+00	0.00E+00	1.32E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E+00	4.70E+01	3.12E-02	6.17E+01	2.38E-02
Dieldrin	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	3.00E-01	1.16E-03	9.00E-01	3.87E-04
gamma-Chlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	1.68E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-01	NA	NA	NA	NA
HMX	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	9.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-01	NA	NA	NA	NA
Iron	4.18E-01	0.00E+00	1.44E+02	0.00E+00	0.00E+00	4.97E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-04	0.00E+00	1.70E+00	0.00E+00	NA	3.01E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	1.13E+00	1.77E+00	1.13E+01	1.77E-01
Manganese	3.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-02	9.77E+02	3.24E-05	9.77E+03	3.24E-06
Mercury (inorganic)	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	6.03E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-02	4.50E-01	1.37E-01	9.00E-01	6.83E-02
Mercury (methyl)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	NA	NA	NA	NA
Nickel	0.00E+00	0.00E+00	9.04E-02	0.00E+00	0.00E+00	9.20E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E+00	7.74E+01	1.31E-02	1.07E+02	9.45E-03
Nitrate	4.79E-02	0.00E+00	7.86E-03	0.00E+00	0.00E+00	2.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-02	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-03	NA	NA	NA	NA
Oxychlordane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	1.07E+02	3.12E-05	3.20E+02	1.04E-05
Pentachloroanisole	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	6.73E+00	3.64E-05	6.73E+01	3.64E-06
Pentachlorophenol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	3.57E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	6.50E+01	7.40E-05	1.30E+02	3.70E-05
Selenium	0.00E+00	0.00E+00	7.68E-03	0.00E+00	0.00E+00	7.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-02	1.80E+00	4.80E-02	5.40E+00	1.60E-02
Silver	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	0.00E+00	3.15E-01	0.00E+00	0.00E+00	2.63E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-01	NA	NA	NA	NA
Sulfate	5.14E-01	0.00E+00	5.32E-01	0.00E+00	0.00E+00	1.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E+00	NA	NA	NA	NA
Thallium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	2.64E-03	0.00E+00	2.43E-01	0.00E+00	0.00E+00	9.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-01	1.14E+01	3.01E-02	3.42E+01	1.00E-02
Zinc	0.00E+00	0.00E+00	6.32E-01	0.00E+00	0.00E+00	2.91E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E+00	1.45E+01	2.44E-01	1.31E+02	2.71E-02

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.0E+02	7.9E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.3E-04	2.5E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.9E-01	2.9E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.7E-02	6.1E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.2E-03	3.9E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR}\left[\sum_{i=1}^{m}\left(\frac{IRi\,x\,Cij}{BW}\right)\right]\right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): [n] See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	1	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0.0025293	kg/d
Sediment ingestion rate =	0	kg/d
Food ingestion rate =	0.0243	kg/d
Body weight =	0.197	kg
Home range =	57	acres
Water intake rate =	0.0197	L/d
Site Area =	486	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-179
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.32E-09	6.19E-08	0.00E+00	2.54E-04	3.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	1.40E-05	1.84E+01	1.40E-04	1.84E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.61E-01	6.77E+01	0.00E+00	3.22E+00	7.63E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E+02	1.10E+02	7.60E+00	3.29E+02	2.53E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	9.24E-01	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+01	2.08E+01	5.45E-01	4.17E+01	2.72E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	2.69E-04	3.83E-03	0.00E+00	4.96E-01	7.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E-01	1.45E+00	3.98E-01	2.00E+01	2.88E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																													
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	1.28E-03	5.03E-02	0.00E+00	8.55E+00	6.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E+00	4.70E+01	1.97E-01	6.17E+01	1.50E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.46E-01	0.00E+00	0.00E+00	7.31E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	4.26E-04	0.00E+00	0.00E+00	2.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-02	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.60E-04	0.00E+00	0.00E+00	9.51E-01	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-01	3.85E+00	2.47E-01	1.16E+01	8.24E-02
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.91E-02	0.00E+00	0.00E+00	1.11E+02	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+02	9.77E+02	1.14E-01	9.77E+03	1.14E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	6.69E-04	0.00E+00	0.00E+00	1.26E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.92E-03	6.40E-03	3.01E-01	6.40E-02	3.01E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	6.51E-02	0.00E+00	0.00E+00	3.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-01	7.74E+01	5.73E-03	1.07E+02	4.14E-03
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	9.38E-02	9.06E-04	0.00E+00	1.13E+02	4.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+02	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								7.63E-03	0.00E+00	0.00E+00	9.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	6.05E-03	0.00E+00	0.00E+00	6.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-02	4.40E-01	1.69E-01	1.50E+00	4.95E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.59E-01	1.39E-01	0.00E+00	7.96E+02	7.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E+02	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	4.97E-03	0.00E+00	0.00E+00	5.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-02	3.50E-01	1.74E-01	1.05E+00	5.81E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.60E-03	0.00E+00	0.00E+00	4.35E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00	1.14E+01	3.82E-01	3.42E+01	1.27E-01
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	2.67E-01	0.00E+00	0.00E+00	5.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E+00	1.45E+01	3.65E-01	1.31E+02	4.04E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00		0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00		0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00		0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00		0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00		0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF

Table O-180
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
									----------Unitless----------							mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.63E-10	5.52E-09	0.00E+00	4.26E-06	6.45E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-06	1.40E-05	3.09E-01	1.40E-04	3.09E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	6.35E-02	7.99E+00	0.00E+00	3.09E-01	9.00E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E+01	1.10E+02	8.97E-01	3.29E+02	2.99E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.17E-01	0.00E+00	0.00E+00	1.31E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+00	2.08E+01	6.88E-02	4.17E+01	3.43E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	3.19E-05	4.52E-04	0.00E+00	4.14E-02	6.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-02	1.45E+00	2.94E-02	2.00E+01	2.13E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E+00	0.00E+00	5.00E+00	0.00E+00
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	1.42E-04	6.09E-03	0.00E+00	1.79E-01	2.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-01	4.70E+01	4.45E-03	6.17E+01	3.39E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.38E-02	0.00E+00	0.00E+00	1.81E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	6.02E-05	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-04	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	6.25E-05	0.00E+00	0.00E+00	3.17E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-02	3.85E+00	8.25E-03	1.16E+01	2.75E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.84E-03	0.00E+00	0.00E+00	1.37E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+00	9.77E+02	1.41E-03	9.77E+03	1.41E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	8.24E-05	0.00E+00	0.00E+00	1.55E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.37E-04	6.40E-03	3.71E-02	6.40E-02	3.71E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	8.02E-03	0.00E+00	0.00E+00	9.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02	7.74E+01	2.30E-04	1.07E+02	1.66E-04
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.32E-03	9.38E-05	0.00E+00	2.49E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.48E-04	0.00E+00	0.00E+00	2.89E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	7.41E-04	0.00E+00	0.00E+00	8.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-03	4.40E-01	2.07E-02	1.50E+00	6.06E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.85E-02	1.37E-02	0.00E+00	2.67E+01	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	6.06E-04	0.00E+00	0.00E+00	6.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-03	3.50E-01	2.12E-02	1.05E+00	7.08E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.03E-04	0.00E+00	0.00E+00	1.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-01	1.14E+01	1.21E-02	3.42E+01	4.03E-03
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	3.18E-02	0.00E+00	0.00E+00	1.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-01	1.45E+01	1.28E-02	1.31E+02	1.42E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BC

Table O-181
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-02	1.67E-02	1.15E-01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	4.69E-04	3.23E-03	4.22E-01	7.65E-03	1.27E+00	2.55E-03
2,3,7,8-TCDD TEQ	1.22E-08	mg/L	8.87E-06	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	3.58E-10	0.00E+00	2.28E-08	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-08	7.64E-09	8.46E-06	1.40E-05	6.04E-01	1.40E-04	6.04E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E+00	9.68E-01	6.66E+00	7.00E-02	9.52E+01	1.80E+00	3.70E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	2.42E-03	1.67E-02	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	4.74E-03	3.26E-02	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06	1.21E-06	8.35E-06	2.80E-03	2.98E-03	2.80E-02	2.98E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.50E-06	2.42E-05	5.80E-02	4.17E-04	5.80E-01	4.17E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	8.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06	8.11E-07	5.55E-06	2.80E-03	1.98E-03	2.80E-02	1.98E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06	5.71E-07	3.93E-06	2.14E+00	1.84E-06	1.07E+01	3.68E-07
Aluminum	6.11E+00	mg/L	9.69E+03	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.79E-01	0.00E+00	2.81E+00	1.06E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-01	1.34E-01	3.99E+00	1.10E+02	3.64E-02	3.29E+02	1.21E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-03	7.29E-04	5.70E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	6.59E-06	4.54E-05	4.10E-01	1.11E-04	1.23E+00	3.69E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05	1.08E-05	7.48E-05	1.80E-01	4.16E-04	1.80E+00	4.16E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	8.72E-06	5.95E-05	1.80E-01	3.30E-04	1.80E+00	3.30E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.32E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	3.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-01	5.73E-02	7.00E-01	2.08E+01	3.36E-02	4.17E+01	1.68E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.49E-03	mg/L	5.48E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	8.11E-01	8.31E-01	8.31E-01	9.22E-01	9.22E-01	7.30E-05	0.00E+00	1.62E-04	1.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03	8.20E-04	2.21E-02	1.45E+00	1.53E-02	2.00E+01	1.11E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	0.00E+00	0.00E+00	4.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-02	9.16E-03	6.66E-02	1.00E+00	6.66E-02	5.00E+00	1.33E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.18E-02	mg/L	7.20E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.86E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	3.47E-04	0.00E+00	4.26E-03	2.82E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	3.50E-03	3.11E-01	4.70E+01	6.61E-03	6.17E+01	5.03E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06	9.13E-07	6.28E-06	1.00E-02	6.28E-04	1.00E-01	6.28E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	4.13E-04	2.84E-03	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02	2.81E-03	1.93E-02	NA	NA	NA	NA
Iron	5.98E+00	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.75E-01	0.00E+00	3.98E+00	2.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-01	4.53E-02	2.86E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.18E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.52E-04	0.00E+00	5.54E-02	3.14E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	2.32E-02	4.05E-03	1.14E-01	3.85E+00	2.97E-02	1.16E+01	9.89E-03
Manganese	4.54E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.33E-02	0.00E+00	0.00E+00	3.67E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E+00	9.77E+02	3.77E-03	9.77E+03	3.77E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.11E-04	1.93E-05	1.64E-04	4.50E-01	3.65E-04	9.00E-01	1.82E-04
Mercury (methyl)	0.00E+00	mg/L	9.58E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.08E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	6.94E-07	4.77E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.33E+00	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	6.21E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03	1.29E-03	1.10E-02	7.74E+01	1.43E-04	1.07E+02	1.03E-04
Nitrate	8.67E-01	mg/L	1.30E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.55E-02	0.00E+00	3.34E-04	3.74E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	3.06E-04	3.77E+00	NA	NA	NA	NA
Nitrate/Nitrite	7.06E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								2.07E-03	0.00E+00	0.00E+00	3.05E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	6.92E-06	4.76E-05	1.07E+02	4.46E-07	3.20E+02	1.49E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	5.87E-07	4.04E-06	6.73E+00	6.01E-07	6.73E+01	6.01E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	2.15E-04	3.75E-05	2.94E-04	6.50E+01	4.52E-06	1.30E+02	2.26E-06
Selenium	0.00E+00	mg/L	8.67E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	4.99E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	2.25E-04	1.73E-03	4.40E-01	3.92E-03	1.50E+00	1.15E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-02	9.32E-03	7.29E-02	NA	NA	NA	NA
Sulfate	6.09E+00	mg/L	2.00E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.79E-01	0.00E+00	3.23E-02	2.63E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-01	2.96E-02	2.67E+01	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	7.12E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	3.33E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	9.78E-04	0.00E+00	6.67E-03	1.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	2.17E-04	1.53E-01	1.14E+01	1.34E-02	3.42E+01	4.47E-03
Zinc	0.00E+00	mg/L	3.82E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	9.78E-01	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-01	4.81E-02	3.43E-01	1.45E+01	2.37E-02	1.31E+02	2.62E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	9.5E+01	3.7E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-06	3.7E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.4E-03	5.4E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	8.6E-04	1.1E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	6.3E-04	6.3E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bio

Table O-182
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Waste Sub-Area/Central Creek Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
									----------Unitless----------							mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-02	4.22E-03	2.93E-02	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04	1.22E-04	8.48E-04	4.22E-01	2.01E-03	1.27E+00	6.70E-04
2,3,7,8-TCDD TEQ	1.07E-08	mg/L	5.59E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.71E-10	0.00E+00	5.38E-09	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-09	1.40E-09	5.59E-07	1.40E-05	3.99E-02	1.40E-04	3.99E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00	2.03E-01	1.40E+00	7.00E-02	2.01E+01	1.80E+00	7.80E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	4.55E-04	3.16E-03	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-03	1.02E-03	7.07E-03	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-06	3.73E-07	2.59E-06	2.80E-03	9.24E-04	2.80E-02	9.24E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		4.75E+00	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	1.30E-06	9.00E-06	5.80E-02	1.55E-04	5.80E-01	1.55E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-07	1.64E-07	1.14E-06	2.80E-03	4.07E-04	2.80E-02	4.07E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06	1.94E-07	1.35E-06	2.14E+00	6.29E-07	1.07E+01	1.26E-07
Aluminum	4.16E+00	mg/L	8.09E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	6.67E-02	0.00E+00	1.18E+00	3.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-01	4.31E-02	1.58E+00	1.10E+02	1.44E-02	3.29E+02	4.79E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	2.13E-04	1.79E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	1.82E-06	1.26E-05	4.10E-01	3.08E-05	1.23E+00	1.03E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	1.96E-06	1.39E-05	1.80E-01	7.72E-05	1.80E+00	7.72E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	3.03E-06	2.07E-05	1.80E-01	1.15E-04	1.80E+00	1.15E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	1.18E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	9.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-02	9.97E-03	1.58E-01	2.08E+01	7.58E-03	4.17E+01	3.78E-03
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	2.09E-03	mg/L	4.57E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	8.80E-01	8.67E-01	8.67E-01	6.72E-01	6.72E-01	3.34E-05	0.00E+00	8.03E-05	5.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	2.97E-04	7.40E-03	1.45E+00	5.10E-03	2.00E+01	3.70E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	0.00E+00	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03	1.16E-03	1.03E-02	1.00E+00	1.03E-02	5.00E+00	2.05E-03
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	9.31E-03	mg/L	6.17E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.44E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	1.49E-04	0.00E+00	1.86E-03	2.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03	9.17E-04	3.10E-02	4.70E+01	6.60E-04	6.17E+01	5.03E-04
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-06	3.60E-07	2.47E-06	1.00E-02	2.47E-04	1.00E-01	2.47E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	1.25E-04	8.64E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-03	8.46E-04	5.86E-03	NA	NA	NA	NA
Iron	4.18E+00	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.70E-02	0.00E+00	1.90E+00	2.31E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01	1.84E-02	4.40E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	6.10E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	4.09E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	6.56E-05	0.00E+00	2.25E-02	4.05E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	8.24E-03	1.44E-03	3.63E-02	3.85E+00	9.42E-03	1.16E+01	3.14E-03
Manganese	3.17E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	5.08E-03	0.00E+00	0.00E+00	1.75E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	9.77E+02	1.84E-04	9.77E+03	1.84E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	4.42E-05	7.71E-06	6.72E-05	4.50E-01	1.49E-04	9.00E-01	7.46E-05
Mercury (methyl)	0.00E+00	mg/L	8.35E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.15E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-06	2.02E-07	1.40E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	8.12E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.43E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03	5.73E-04	5.05E-03	7.74E+01	6.53E-05	1.07E+02	4.72E-05
Nitrate	4.79E-01	mg/L	9.50E-02	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	7.68E-03	0.00E+00	1.04E-04	3.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	6.34E-05	3.27E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.55E-02	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.90E-04	0.00E+00	0.00E+00	3.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	2.63E-06	1.82E-05	1.07E+02	1.71E-07	3.20E+02	5.69E-08
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-06	1.84E-07	1.27E-06	6.73E+00	1.89E-07	6.73E+01	1.89E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	5.72E-05	9.99E-06	8.36E-05	6.50E+01	1.29E-06	1.30E+02	6.43E-07
Selenium	0.00E+00	mg/L	7.51E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.92E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	8.45E-05	6.70E-04	4.40E-01	1.52E-03	1.50E+00	4.47E-04
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02	2.54E-03	2.12E-02	NA	NA	NA	NA
Sulfate	5.14E+00	mg/L	1.39E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.24E-02	0.00E+00	7.04E-03	3.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-02	4.29E-03	3.53E+00	NA	NA	NA	NA
Thallium	0.00E+00	mg/L	6.14E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-01	0.00E+00	1.05E+00	0.00E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	2.64E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.23E-04	0.00E+00	3.21E-03	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	9.70E-05	2.18E-02	1.14E+01	1.91E-03	3.42E+01	6.38E-04
Zinc	0.00E+00	mg/L	3.22E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.05E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	8.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-02	8.47E-03	6.53E-02	1.45E+01	4.51E-03	1.31E+02	4.99E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.0E+01	7.8E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	6.3E-07	1.3E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-03	1.5E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.2E-04	2.9E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.5E-04	2.5E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or B

Table O-183
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	5.12E+00	0.00E+00	3.51E+00	0.00E+00	0.00E+00	0.00E+00	8.65E+00	2.68E+00	3.23E+00	1.33E+01	6.50E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	1.45E-01	0.00E+00	5.88E-02	0.00E+00	0.00E+00	0.00E+00	2.04E-01	1.13E-01	1.81E+00	2.64E-01	7.74E-01
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.83E-09	0.00E+00	1.36E-07	0.00E+00	0.00E+00	7.55E-05	0.00E+00	1.54E-08	0.00E+00	0.00E+00	0.00E+00	7.57E-05	1.00E-06	7.57E+01	1.00E-05	7.57E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.11E-01	0.00E+00	0.00E+00	8.20E+00	0.00E+00	7.28E+00	0.00E+00	0.00E+00	0.00E+00	1.64E+01	2.00E-01	8.20E+01	3.00E-01	5.46E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	3.65E-03	0.00E+00	1.58E-01	0.00E+00	0.00E+00	0.00E+00	1.64E-01	2.00E-01	8.21E-01	1.50E+00	1.09E-01
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	3.90E-02	0.00E+00	2.64E-01	0.00E+00	0.00E+00	0.00E+00	3.07E-01	2.00E-01	1.54E+00	6.00E-01	5.12E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.14E-06	0.00E+00	0.00E+00	4.43E-04	0.00E+00	2.28E-06	0.00E+00	0.00E+00	0.00E+00	4.46E-04	8.00E-01	5.58E-04	4.00E+00	1.12E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	1.49E-03	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	1.55E-03	8.00E-01	1.94E-03	4.00E+00	3.88E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	5.29E-07	0.00E+00	0.00E+00	2.13E-04	0.00E+00	1.06E-06	0.00E+00	0.00E+00	0.00E+00	2.14E-04	8.00E-01	2.68E-04	4.00E+00	5.36E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.38E-07	0.00E+00	0.00E+00	2.12E-04	0.00E+00	5.42E-07	0.00E+00	0.00E+00	0.00E+00	2.13E-04	4.58E+00	4.65E-05	9.16E+00	2.32E-05
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	6.10E+00	0.00E+00	1.67E+01	0.00E+00	0.00E+00	4.94E+01	0.00E+00	9.62E-01	0.00E+00	0.00E+00	0.00E+00	7.32E+01	1.93E+00	3.79E+01	1.93E+01	3.79E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.76E-03	0.00E+00	0.00E+00	1.36E-01	0.00E+00	8.33E-03	0.00E+00	0.00E+00	0.00E+00	1.49E-01	1.25E-01	1.19E+00	1.25E+00	1.19E-01
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	2.45E-03	0.00E+00	2.53E-05	0.00E+00	0.00E+00	0.00E+00	2.48E-03	6.85E-02	3.62E-02	6.85E-01	3.62E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	4.49E-03	0.00E+00	2.45E-06	0.00E+00	0.00E+00	0.00E+00	4.50E-03	6.80E-02	6.62E-02	6.80E-01	6.62E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	2.10E-03	0.00E+00	5.60E-07	0.00E+00	0.00E+00	0.00E+00	2.11E-03	6.80E-02	3.10E-02	6.80E-01	3.10E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	1.87E+00	0.00E+00	0.00E+00	5.08E-01	0.00E+00	3.42E+01	0.00E+00	0.00E+00	0.00E+00	3.66E+01	5.10E+00	7.18E+00	1.98E+01	1.85E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	9.64E-04	0.00E+00	0.00E+00	5.58E-02	0.00E+00	2.00E-02	0.00E+00	0.00E+00	0.00E+00	7.67E-02	1.00E+00	7.67E-02	1.00E+01	7.67E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	3.80E-03	0.00E+00	2.94E-02	0.00E+00	0.00E+00	1.39E-02	0.00E+00	3.52E-01	0.00E+00	0.00E+00	0.00E+00	4.00E-01	2.74E+03	1.46E-04	2.74E+04	1.46E-05
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	3.80E-03	0.00E+00	4.17E-04	0.00E+00	0.00E+00	1.98E-04	0.00E+00	5.00E-03	0.00E+00	0.00E+00	0.00E+00	9.42E-03	3.28E+00	2.87E-03	1.31E+01	7.17E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	5.07E-03	0.00E+00	2.54E-02	0.00E+00	0.00E+00	5.26E-01	0.00E+00	2.51E-01	0.00E+00	0.00E+00	0.00E+00	8.08E-01	1.17E+01	6.90E-02	1.51E+01	5.33E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	8.13E-07	0.00E+00	0.00E+00	3.10E-04	0.00E+00	7.77E-07	0.00E+00	0.00E+00	0.00E+00	3.12E-04	9.20E-02	3.39E-03	9.20E-01	3.39E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.89E-04	0.00E+00	0.00E+00	1.51E-01	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	1.51E-01	8.00E-02	1.89E+00	2.90E-01	5.22E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	0.00E+00	8.42E-01	0.00E+00	5.54E-01	0.00E+00	0.00E+00	0.00E+00	1.40E+00	1.00E+00	1.40E+00	5.00E+00	2.80E-01
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	8.73E+00	0.00E+00	2.37E+01	0.00E+00	0.00E+00	4.63E+01	0.00E+00	2.37E+00	0.00E+00	0.00E+00	0.00E+00	8.11E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.17E-03	0.00E+00	3.30E-01	0.00E+00	NA	1.53E-01	NA	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.09E-01	8.00E+00	8.86E-02	8.00E+01	8.86E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.81E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-01	8.80E+01	3.19E-03	2.84E+02	9.90E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+01	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	2.42E-02	NA	5.17E-03	0.00E+00	0.00E+00	0.00E+00	2.96E-02	1.32E+01	2.24E-03	3.96E+01	7.46E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.53E-07	0.00E+00	0.00E+00	2.65E-04	0.00E+00	5.61E-07	0.00E+00	0.00E+00	0.00E+00	2.66E-04	7.00E-02	3.80E-03	7.00E-01	3.80E-04
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.39E-02	0.00E+00	0.00E+00	1.64E+00	0.00E+00	2.28E-02	0.00E+00	0.00E+00	0.00E+00	1.68E+00	4.00E+01	4.20E-02	8.00E+01	2.10E-02
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.24E-01	0.00E+00	1.99E-03	0.00E+00	0.00E+00	5.68E-02	0.00E+00	1.74E-02	0.00E+00	0.00E+00	0.00E+00	3.00E-01	5.07E+02	5.92E-04	1.13E+03	2.65E-04
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.75E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+01	5.07E+02	3.46E-02	1.13E+03	1.55E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.51E-06	0.00E+00	0.00E+00	2.35E-03	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	2.38E-03	2.10E+00	1.14E-03	6.30E+00	3.79E-04
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.52E-07	0.00E+00	0.00E+00	2.10E-04	0.00E+00	4.62E-07	0.00E+00	0.00E+00	0.00E+00	2.11E-04	2.40E-01	8.78E-04	2.40E+00	8.78E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	6.98E-03	NA	1.57E-01	0.00E+00	0.00E+00	0.00E+00	1.64E-01	8.50E+00	1.93E-02	2.55E+01	6.43E-03
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	1.39E-03	0.00E+00	1.25E-03	0.00E+00	0.00E+00	3.23E-02	0.00E+00	1.53E-02	0.00E+00	0.00E+00	0.00E+00	5.02E-02	2.00E-01	2.51E-01	3.30E-01	1.52E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.08E-02	0.00E+00	0.00E+00	4.22E-01	0.00E+00	5.32E-01	0.00E+00	0.00E+00	0.00E+00	1.02E+00	2.63E+02	3.86E-03	7.89E+02	1.29E-03
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.73E+01	0.00E+00	1.93E-01	0.00E+00	0.00E+00	5.49E+00	0.00E+00	1.69E+00	0.00E+00	0.00E+00	0.00E+00	2.47E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	7.40E-03	3.06E-02	7.40E-02	3.06E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.85E-02	0.00E+00	3.98E-02	0.00E+00	0.00E+00	8.75E-02	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	1.50E-01	2.10E-01	7.14E-01	2.10E+00	7.14E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	1.16E-01	0.00E+00	0.00E+00	1.39E+00	0.00E+00	2.28E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+00	1.60E+02	2.36E-02	3.20E+02	1.18E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	8.4E+01	5.5E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	4.6E-05	2.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.8E-03	5.5E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-01	1.3E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/Endrin EEQ

Table O-184
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Deer Mouse at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.56E-03	0.00E+00	0.00E+00	1.80E+00	0.00E+00	1.34E+00	0.00E+00	0.00E+00	0.00E+00	3.15E+00	2.68E+00	1.18E+00	1.33E+01	2.37E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	5.25E-02	0.00E+00	3.06E-02	0.00E+00	0.00E+00	0.00E+00	8.34E-02	1.13E-01	7.38E-01	2.64E-01	3.16E-01
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.40E-09	0.00E+00	5.87E-08	0.00E+00	0.00E+00	1.62E-05	0.00E+00	5.68E-09	0.00E+00	0.00E+00	0.00E+00	1.62E-05	1.00E-06	1.62E+01	1.00E-05	1.62E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.59E-01	0.00E+00	0.00E+00	4.13E+00	0.00E+00	1.83E+00	0.00E+00	0.00E+00	0.00E+00	6.41E+00	2.00E-01	3.21E+01	3.00E-01	2.14E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	1.65E-03	0.00E+00	5.49E-02	0.00E+00	0.00E+00	0.00E+00	5.75E-02	2.00E-01	2.88E-01	1.50E+00	3.84E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	2.02E-02	0.00E+00	1.23E-01	0.00E+00	0.00E+00	0.00E+00	1.45E-01	2.00E-01	7.26E-01	6.00E-01	2.42E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.45E-07	0.00E+00	0.00E+00	1.89E-04	0.00E+00	5.91E-07	0.00E+00	0.00E+00	0.00E+00	1.90E-04	8.00E-01	2.38E-04	4.00E+00	4.76E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.74E-06	0.00E+00	0.00E+00	6.16E-04	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	6.28E-04	8.00E-01	7.85E-04	4.00E+00	1.57E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.68E-07	0.00E+00	0.00E+00	8.53E-05	0.00E+00	2.58E-07	0.00E+00	0.00E+00	0.00E+00	8.60E-05	8.00E-01	1.07E-04	4.00E+00	2.15E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.39E-07	0.00E+00	0.00E+00	9.98E-05	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	1.00E-04	4.58E+00	2.19E-05	9.16E+00	1.10E-05
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.37E+00	0.00E+00	1.29E+01	0.00E+00	0.00E+00	1.39E+01	0.00E+00	4.84E-01	0.00E+00	0.00E+00	0.00E+00	3.06E+01	1.93E+00	1.59E+01	1.93E+01	1.59E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.82E-03	0.00E+00	0.00E+00	2.87E-02	0.00E+00	3.54E-03	0.00E+00	0.00E+00	0.00E+00	3.60E-02	1.25E-01	2.88E-01	1.25E+00	2.88E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.12E-06	0.00E+00	0.00E+00	9.39E-04	0.00E+00	8.64E-07	0.00E+00	0.00E+00	0.00E+00	9.44E-04	6.85E-02	1.38E-02	6.85E-01	1.38E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.81E-06	0.00E+00	0.00E+00	1.83E-03	0.00E+00	6.98E-07	0.00E+00	0.00E+00	0.00E+00	1.83E-03	6.80E-02	2.70E-02	6.80E-01	2.70E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	8.84E-04	0.00E+00	5.78E-08	0.00E+00	0.00E+00	0.00E+00	8.87E-04	6.80E-02	1.30E-02	6.80E-01	1.30E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	9.89E-01	0.00E+00	0.00E+00	3.41E-01	0.00E+00	1.80E+01	0.00E+00	0.00E+00	0.00E+00	1.94E+01	5.10E+00	3.80E+00	1.98E+01	9.78E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-02	0.00E+00	1.90E-02	0.00E+00	0.00E+00	0.00E+00	7.37E-02	1.00E+00	7.37E-02	1.00E+01	7.37E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.98E-03	0.00E+00	2.68E-02	0.00E+00	0.00E+00	1.27E-02	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	6.99E-02	2.74E+03	2.55E-05	2.74E+04	2.55E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.98E-03	0.00E+00	3.80E-04	0.00E+00	0.00E+00	1.80E-04	0.00E+00	3.89E-04	0.00E+00	0.00E+00	0.00E+00	3.93E-03	3.28E+00	1.20E-03	1.31E+01	2.99E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	3.56E-03	0.00E+00	2.03E-02	0.00E+00	0.00E+00	4.98E-01	0.00E+00	2.30E-01	0.00E+00	0.00E+00	0.00E+00	7.52E-01	1.17E+01	6.43E-02	1.51E+01	4.97E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	3.17E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.88E-07	0.00E+00	0.00E+00	1.29E-04	0.00E+00	4.03E-07	0.00E+00	0.00E+00	0.00E+00	1.30E-04	9.20E-02	1.42E-03	9.20E-01	1.42E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	6.31E-02	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	6.35E-02	8.00E-02	7.94E-01	2.90E-01	2.19E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.91E-03	0.00E+00	0.00E+00	3.52E-01	0.00E+00	4.01E-01	0.00E+00	0.00E+00	0.00E+00	7.55E-01	1.00E+00	7.55E-01	5.00E+00	1.51E-01
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.84E+00	0.00E+00	2.08E+01	0.00E+00	0.00E+00	1.87E+01	0.00E+00	2.08E+00	0.00E+00	0.00E+00	0.00E+00	4.63E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.70E-03	0.00E+00	2.45E-01	0.00E+00	NA	1.13E-01	NA	1.89E-01	0.00E+00	0.00E+00	0.00E+00	5.49E-01	8.00E+00	6.86E-02	8.00E+01	6.86E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-01	8.80E+01	2.36E-03	2.84E+02	7.31E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	2.27E-02	NA	4.65E-03	0.00E+00	0.00E+00	0.00E+00	2.75E-02	1.32E+01	2.08E-03	3.96E+01	6.94E-04
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.58E-07	0.00E+00	0.00E+00	1.07E-04	0.00E+00	3.94E-08	0.00E+00	0.00E+00	0.00E+00	1.08E-04	7.00E-02	1.54E-03	7.00E-01	1.54E-04
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	3.46E-01	0.00E+00	2.18E-02	0.00E+00	0.00E+00	0.00E+00	3.81E-01	4.00E+01	9.52E-03	8.00E+01	4.76E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.30E-01	0.00E+00	1.14E-03	0.00E+00	0.00E+00	8.52E-03	0.00E+00	5.96E-03	0.00E+00	0.00E+00	0.00E+00	1.45E-01	5.07E+02	2.86E-04	1.13E+03	1.28E-04
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.79E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E+00	5.07E+02	1.73E-02	1.13E+03	7.77E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.94E-06	0.00E+00	0.00E+00	1.24E-03	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	1.27E-03	2.10E+00	6.03E-04	6.30E+00	2.01E-04
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.16E-07	0.00E+00	0.00E+00	9.11E-05	0.00E+00	2.85E-07	0.00E+00	0.00E+00	0.00E+00	9.18E-05	2.40E-01	3.82E-04	2.40E+00	3.82E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	1.34E-03	NA	1.30E-01	0.00E+00	0.00E+00	0.00E+00	1.32E-01	8.50E+00	1.55E-02	2.55E+01	5.17E-03
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	1.17E-03	0.00E+00	1.11E-03	0.00E+00	0.00E+00	2.96E-02	0.00E+00	1.34E-02	0.00E+00	0.00E+00	0.00E+00	4.52E-02	2.00E-01	2.26E-01	3.30E-01	1.37E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.54E-02	0.00E+00	0.00E+00	9.88E-02	0.00E+00	2.39E-01	0.00E+00	0.00E+00	0.00E+00	3.83E-01	2.63E+02	1.46E-03	7.89E+02	4.85E-04
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.24E+01	0.00E+00	7.68E-02	0.00E+00	0.00E+00	5.76E-01	0.00E+00	4.03E-01	0.00E+00	0.00E+00	0.00E+00	1.35E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	7.40E-03	2.38E-02	7.40E-02	2.38E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.29E-02	0.00E+00	3.51E-02	0.00E+00	0.00E+00	3.68E-02	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	8.79E-02	2.10E-01	4.19E-01	2.10E+00	4.19E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	9.13E-02	0.00E+00	0.00E+00	1.10E+00	0.00E+00	1.99E+00	0.00E+00	0.00E+00	0.00E+00	3.18E+00	1.60E+02	1.99E-02	3.20E+02	9.94E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	3.3E+01	2.2E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.2E-05	1.1E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-03	2.3E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	5.4E-02	5.4E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin/Endrin EEQ:

Table O-185
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
									----------Unitless----------							mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	0.00E+00	8.31E-01	0.00E+00	2.28E+00	0.00E+00	2.45E-02	0.00E+00	3.16E+00	2.68E+00	1.18E+00	1.33E+01	2.37E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.61E-04	0.00E+00	0.00E+00	2.35E-02	0.00E+00	3.82E-02	0.00E+00	6.88E-04	0.00E+00	6.30E-02	1.13E-01	5.57E-01	2.64E-01	2.39E-01
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.77E-10	3.33E-08	1.73E-07	4.02E-06	2.33E-06	1.23E-05	0.00E+00	1.00E-08	0.00E+00	1.12E-08	0.00E+00	1.88E-05	1.00E-06	1.88E+01	1.00E-05	1.88E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.16E+00	0.00E+00	0.00E+00	1.33E+00	0.00E+00	4.73E+00	0.00E+00	1.42E+00	0.00E+00	8.64E+00	2.00E-01	4.32E+01	3.00E-01	2.88E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.90E-03	0.00E+00	0.00E+00	5.92E-04	0.00E+00	1.03E-01	0.00E+00	3.55E-03	0.00E+00	1.10E-01	2.00E-01	5.49E-01	1.50E+00	7.32E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.67E-03	0.00E+00	0.00E+00	6.33E-03	0.00E+00	1.71E-01	0.00E+00	6.95E-03	0.00E+00	1.90E-01	2.00E-01	9.51E-01	6.00E-01	3.17E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.45E-06	0.00E+00	0.00E+00	7.19E-05	0.00E+00	1.48E-06	0.00E+00	1.78E-06	0.00E+00	7.66E-05	8.00E-01	9.57E-05	4.00E+00	1.91E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	4.85E-06	0.00E+00	0.00E+00	2.42E-04	0.00E+00	3.84E-05	0.00E+00	5.13E-06	0.00E+00	2.90E-04	8.00E-01	3.63E-04	4.00E+00	7.25E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	6.73E-07	0.00E+00	0.00E+00	3.46E-05	0.00E+00	6.87E-07	0.00E+00	1.19E-06	0.00E+00	3.71E-05	8.00E-01	4.64E-05	4.00E+00	9.28E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.83E-07	0.00E+00	0.00E+00	3.44E-05	0.00E+00	3.52E-07	0.00E+00	8.38E-07	0.00E+00	3.63E-05	4.58E+00	7.92E-06	9.16E+00	3.96E-06
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.67E+00	2.42E+01	2.13E+01	2.19E-01	3.48E+02	8.01E+00	0.00E+00	6.25E-01	0.00E+00	1.96E-01	0.00E+00	4.05E+02	1.93E+00	2.10E+02	1.93E+01	2.10E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	6.05E-03	0.00E+00	0.00E+00	2.20E-02	0.00E+00	5.41E-03	0.00E+00	1.07E-03	0.00E+00	3.45E-02	1.25E-01	2.76E-01	1.25E+00	2.76E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.88E-06	0.00E+00	0.00E+00	3.98E-04	0.00E+00	1.64E-05	0.00E+00	9.66E-06	0.00E+00	4.32E-04	6.85E-02	6.30E-03	6.85E-01	6.30E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	7.29E-04	0.00E+00	1.59E-06	0.00E+00	1.59E-05	0.00E+00	7.60E-04	6.80E-02	1.12E-02	6.90E-01	1.10E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	6.27E-06	0.00E+00	0.00E+00	3.41E-04	0.00E+00	3.64E-07	0.00E+00	1.28E-05	0.00E+00	3.60E-04	6.80E-02	5.30E-03	6.90E-01	5.22E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	6.76E-01	2.38E+00	0.00E+00	9.70E+00	8.25E-02	0.00E+00	2.22E+01	0.00E+00	8.40E-02	0.00E+00	3.51E+01	5.10E+00	6.89E+00	1.98E+01	1.77E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	4.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-02	1.83E+01	2.57E-03	1.83E+02	2.57E-04
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	4.32E-04	1.23E-03	0.00E+00	1.10E-02	9.05E-03	0.00E+00	1.30E-02	0.00E+00	1.20E-03	0.00E+00	3.59E-02	1.00E+00	3.59E-02	1.00E+01	3.59E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.04E-03	0.00E+00	3.73E-02	3.18E-02	0.00E+00	2.26E-03	0.00E+00	2.29E-01	0.00E+00	1.32E-02	0.00E+00	3.14E-01	2.74E+03	1.15E-04	2.74E+04	1.15E-05
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.04E-03	0.00E+00	5.30E-04	3.18E-02	0.00E+00	3.21E-05	0.00E+00	3.25E-03	0.00E+00	1.88E-04	0.00E+00	3.68E-02	3.28E+00	1.12E-02	1.31E+01	2.80E-03
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	1.39E-03	1.83E-02	3.23E-02	2.51E-01	3.07E-01	8.53E-02	0.00E+00	1.63E-01	0.00E+00	5.13E-03	0.00E+00	8.64E-01	1.17E+01	7.38E-02	1.51E+01	5.71E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	4.39E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.03E-06	0.00E+00	0.00E+00	5.04E-05	0.00E+00	5.05E-07	0.00E+00	1.34E-06	0.00E+00	5.33E-05	9.20E-02	5.79E-04	9.20E-01	5.79E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	2.45E-02	0.00E+00	1.19E-04	0.00E+00	6.06E-04	0.00E+00	2.57E-02	8.00E-02	3.21E-01	2.90E-01	8.86E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.36E-03	0.00E+00	0.00E+00	1.37E-01	0.00E+00	3.60E-01	0.00E+00	4.12E-03	0.00E+00	5.04E-01	1.00E+00	5.04E-01	5.00E+00	1.01E-01
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.40E+00	0.00E+00	3.02E+01	7.30E+01	0.00E+00	7.51E+00	0.00E+00	1.54E+00	0.00E+00	6.64E-02	0.00E+00	1.15E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	5.96E-04	0.00E+00	4.20E-01	2.73E-02	NA	2.48E-02	NA	1.45E-01	0.00E+00	5.94E-03	0.00E+00	6.23E-01	8.00E+00	7.79E-02	8.00E+01	7.79E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.72E-02	0.00E+00	4.70E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	8.61E-07	0.00E+00	4.78E+00	8.80E+01	5.43E-02	2.84E+02	1.68E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	3.92E-03	NA	3.36E-03	0.00E+00	2.84E-05	0.00E+00	7.57E-03	1.00E+00	7.57E-03	3.00E+00	2.52E-03
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	1.95E-04	0.00E+00	0.00E+00	4.68E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	6.63E-04	1.50E-02	4.42E-02	2.50E-02	2.65E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.30E-07	0.00E+00	0.00E+00	4.30E-05	0.00E+00	3.64E-07	0.00E+00	1.02E-06	0.00E+00	4.52E-05	7.00E-02	6.46E-04	7.00E-01	6.46E-05
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	2.59E-02	1.77E-02	0.00E+00	1.92E-01	2.66E-01	0.00E+00	1.48E-02	0.00E+00	1.90E-03	0.00E+00	5.19E-01	4.00E+01	1.30E-02	8.00E+01	6.48E-03
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.14E-02	1.76E-03	2.54E-03	2.00E+00	1.18E-02	9.22E-03	0.00E+00	1.13E-02	0.00E+00	4.48E-04	0.00E+00	2.10E+00	5.07E+02	4.13E-03	1.13E+03	1.86E-03
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.81E+00	0.00E+00	0.00E+00	1.57E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E+02	5.07E+02	3.18E-01	1.13E+03	1.43E-01
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.28E-06	0.00E+00	0.00E+00	3.81E-04	0.00E+00	1.99E-05	0.00E+00	1.01E-05	0.00E+00	4.19E-04	2.10E+00	2.00E-04	6.30E+00	6.66E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.02E-07	0.00E+00	0.00E+00	3.40E-05	0.00E+00	3.00E-07	0.00E+00	8.61E-07	0.00E+00	3.59E-05	2.40E-01	1.50E-04	2.40E+00	1.50E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	1.13E-03	NA	1.02E-01	0.00E+00	5.51E-05	0.00E+00	1.03E-01	8.50E+00	1.21E-02	2.55E+01	4.05E-03
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	3.81E-04	2.14E-03	1.59E-03	2.38E-03	3.07E-02	5.24E-03	0.00E+00	9.91E-03	0.00E+00	3.31E-04	0.00E+00	5.27E-02	2.00E-01	2.64E-01	3.30E-01	1.60E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.73E-02	0.00E+00	0.00E+00	6.86E-02	0.00E+00	3.45E-01	0.00E+00	1.37E-02	0.00E+00	5.05E-01	2.63E+02	1.92E-03	7.89E+02	6.40E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.74E+00	1.77E-01	2.45E-01	1.54E+02	1.19E+00	8.92E-01	0.00E+00	1.10E+00	0.00E+00	4.33E-02	0.00E+00	1.63E+02	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							6.22E-05	1.41E-03	0.00E+00	3.01E-02	2.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-02	7.40E-03	7.01E+00	7.40E-02	7.01E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	5.09E-03	0.00E+00	5.06E-02	1.66E-01	0.00E+00	1.42E-02	0.00E+00	2.58E-03	0.00E+00	3.19E-04	0.00E+00	2.38E-01	2.10E-01	1.14E+00	2.10E+00	1.14E-01
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	8.44E-02	1.47E-01	0.00E+00	2.03E+00	2.25E-01	0.00E+00	1.48E+00	0.00E+00	7.06E-02	0.00E+00	4.03E+00	1.60E+02	2.52E-02	3.20E+02	1.26E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	4.5E+01	2.9E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	7.9E-06	4.0E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.0E-04	1.0E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.3E-02	2.3E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.6E-03	2.6E-04
**Aldrin/Dieldrin/Endrin E

Table O-186
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Raccoon at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
										----------Unitless----------						mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.27E-03	0.00E+00	0.00E+00	2.23E-01	0.00E+00	6.65E-01	0.00E+00	8.64E-03	0.00E+00	9.06E-01	2.68E+00	3.38E-01	1.33E+01	6.81E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	6.49E-03	0.00E+00	1.52E-02	0.00E+00	2.50E-04	0.00E+00	2.22E-02	1.13E-01	1.96E-01	2.64E-01	8.40E-02
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	5.02E-10	7.19E-09	5.69E-08	3.53E-07	1.07E-07	2.00E-06	0.00E+00	2.81E-09	0.00E+00	2.86E-09	0.00E+00	2.53E-06	1.00E-06	2.53E+00	1.00E-05	2.53E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.44E-01	0.00E+00	0.00E+00	5.11E-01	0.00E+00	9.05E-01	0.00E+00	4.14E-01	0.00E+00	2.27E+00	2.00E-01	1.14E+01	3.00E-01	7.58E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	2.04E-04	0.00E+00	2.72E-02	0.00E+00	9.32E-04	0.00E+00	2.93E-02	2.00E-01	1.46E-01	1.50E+00	1.95E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	2.50E-03	0.00E+00	6.08E-02	0.00E+00	2.08E-03	0.00E+00	6.76E-02	2.00E-01	3.38E-01	6.00E-01	1.13E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.19E-07	0.00E+00	0.00E+00	2.34E-05	0.00E+00	2.93E-07	0.00E+00	7.63E-07	0.00E+00	2.53E-05	8.00E-01	3.16E-05	4.00E+00	6.31E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.65E-06	0.00E+00	0.00E+00	7.62E-05	0.00E+00	4.61E-06	0.00E+00	2.66E-06	0.00E+00	8.61E-05	8.00E-01	1.08E-04	4.00E+00	2.15E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.57E-07	0.00E+00	0.00E+00	1.06E-05	0.00E+00	1.27E-07	0.00E+00	3.37E-07	0.00E+00	1.14E-05	8.00E-01	1.42E-05	4.00E+00	2.85E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.26E-07	0.00E+00	0.00E+00	1.23E-05	0.00E+00	5.07E-08	0.00E+00	3.97E-07	0.00E+00	1.32E-05	4.58E+00	2.89E-06	9.16E+00	1.44E-06
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	7.04E-01	1.35E+01	1.25E+01	9.23E-02	1.94E+02	1.72E+00	0.00E+00	2.39E-01	0.00E+00	8.81E-02	0.00E+00	2.22E+02	1.93E+00	1.15E+02	1.93E+01	1.15E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.71E-03	0.00E+00	0.00E+00	3.55E-03	0.00E+00	1.75E-03	0.00E+00	4.37E-04	0.00E+00	9.44E-03	1.25E-01	7.55E-02	1.25E+00	7.55E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.99E-06	0.00E+00	0.00E+00	1.16E-04	0.00E+00	4.28E-07	0.00E+00	3.72E-06	0.00E+00	1.24E-04	6.85E-02	1.82E-03	6.85E-01	1.82E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.57E-06	0.00E+00	0.00E+00	2.26E-04	0.00E+00	3.46E-07	0.00E+00	4.01E-06	0.00E+00	2.38E-04	6.80E-02	3.50E-03	6.90E-01	3.45E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.49E-06	0.00E+00	0.00E+00	1.09E-04	0.00E+00	2.86E-08	0.00E+00	6.19E-06	0.00E+00	1.19E-04	6.80E-02	1.75E-03	6.90E-01	1.73E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	4.16E-01	9.58E-01	0.00E+00	5.98E+00	4.22E-02	0.00E+00	8.93E+00	0.00E+00	2.04E-02	0.00E+00	1.63E+01	5.10E+00	3.20E+00	1.98E+01	8.26E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	4.18E-04	0.00E+00	0.00E+00	6.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-03	1.83E+01	3.63E-04	1.83E+02	3.63E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	3.29E-04	8.49E-04	0.00E+00	6.30E-04	6.67E-03	0.00E+00	9.40E-03	0.00E+00	6.08E-04	0.00E+00	1.85E-02	1.00E+00	1.85E-02	1.00E+01	1.85E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	6.25E-04	0.00E+00	2.59E-02	6.85E-03	0.00E+00	1.57E-03	0.00E+00	1.36E-02	0.00E+00	2.33E-03	0.00E+00	5.09E-02	2.74E+03	1.86E-05	2.74E+04	1.86E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	6.25E-04	0.00E+00	3.68E-04	6.85E-03	0.00E+00	2.23E-05	0.00E+00	1.93E-04	0.00E+00	3.31E-05	0.00E+00	8.09E-03	3.28E+00	2.47E-03	1.31E+01	6.16E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	7.45E-04	1.23E-02	1.97E-02	2.52E-02	6.10E-02	6.16E-02	0.00E+00	1.14E-01	0.00E+00	1.88E-03	0.00E+00	2.96E-01	1.17E+01	2.53E-02	1.51E+01	1.96E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.70E-07	0.00E+00	0.00E+00	1.60E-05	0.00E+00	1.99E-07	0.00E+00	7.36E-07	0.00E+00	1.75E-05	9.20E-02	1.90E-04	9.20E-01	1.90E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	7.81E-03	0.00E+00	5.55E-05	0.00E+00	2.55E-04	0.00E+00	8.40E-03	8.00E-02	1.05E-01	2.90E-01	2.89E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.86E-03	0.00E+00	0.00E+00	4.35E-02	0.00E+00	1.99E-01	0.00E+00	1.73E-03	0.00E+00	2.46E-01	1.00E+00	2.46E-01	5.00E+00	4.91E-02
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.01E+00	0.00E+00	2.01E+01	7.72E+00	0.00E+00	2.31E+00	0.00E+00	1.03E+00	0.00E+00	3.76E-02	0.00E+00	3.22E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	3.55E-04	0.00E+00	2.38E-01	4.85E-03	NA	1.40E-02	NA	9.36E-02	0.00E+00	2.94E-03	0.00E+00	3.53E-01	8.00E+00	4.42E-02	8.00E+01	4.42E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	4.34E-02	0.00E+00	4.03E-07	0.00E+00	0.00E+00	1.13E-05	0.00E+00	1.41E-07	0.00E+00	3.76E-07	0.00E+00	1.22E-05	2.40E-01	5.08E-05	2.40E+00	5.08E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	2.80E-03	NA	2.30E-03	0.00E+00	1.58E-05	0.00E+00	5.28E-03	1.00E+00	5.28E-03	3.00E+00	1.76E-03
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.10E-04	0.00E+00	0.00E+00	2.64E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.74E-04	1.50E-02	2.49E-02	2.50E-02	1.49E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.44E-07	0.00E+00	0.00E+00	1.33E-05	0.00E+00	1.95E-08	0.00E+00	4.14E-07	0.00E+00	1.42E-05	7.00E-02	2.02E-04	7.00E-01	2.02E-05
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	1.74E-02	1.27E-02	0.00E+00	2.70E-02	4.28E-02	0.00E+00	1.08E-02	0.00E+00	1.17E-03	0.00E+00	1.12E-01	4.00E+01	2.80E-03	8.00E+01	1.40E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.71E-02	8.27E-04	1.10E-03	2.48E-01	1.11E-03	1.05E-03	0.00E+00	2.95E-03	0.00E+00	1.30E-04	0.00E+00	2.83E-01	5.07E+02	5.57E-04	1.13E+03	2.50E-04
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.84E+00	0.00E+00	0.00E+00	1.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E+01	5.07E+02	3.69E-02	1.13E+03	1.65E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.76E-06	0.00E+00	0.00E+00	1.53E-04	0.00E+00	1.22E-05	0.00E+00	5.37E-06	0.00E+00	1.76E-04	2.10E+00	8.39E-05	6.30E+00	2.80E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.03E-07	0.00E+00	0.00E+00	1.13E-05	0.00E+00	1.41E-07	0.00E+00	3.76E-07	0.00E+00	1.22E-05	2.40E-01	5.08E-05	2.40E+00	5.08E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	1.66E-04	NA	6.45E-02	0.00E+00	2.04E-05	0.00E+00	6.48E-02	8.50E+00	7.63E-03	2.55E+01	2.54E-03
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	2.45E-04	1.38E-03	1.08E-03	1.53E-03	1.97E-02	3.66E-03	0.00E+00	6.61E-03	0.00E+00	1.73E-04	0.00E+00	3.44E-02	2.00E-01	1.72E-01	3.30E-01	1.04E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.40E-02	0.00E+00	0.00E+00	1.22E-02	0.00E+00	1.18E-01	0.00E+00	5.19E-03	0.00E+00	1.80E-01	2.63E+02	6.83E-04	7.89E+02	2.28E-04
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	2.60E+00	9.22E-02	7.45E-02	2.39E+01	1.24E-01	7.13E-02	0.00E+00	2.00E-01	0.00E+00	8.78E-03	0.00E+00	2.70E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							3.68E-05	8.84E-04	0.00E+00	8.40E-05	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	7.40E-03	1.85E+00	7.40E-02	1.85E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	2.69E-03	0.00E+00	3.40E-02	2.47E-02	0.00E+00	4.56E-03	0.00E+00	1.56E-03	0.00E+00	1.98E-04	0.00E+00	6.77E-02	2.10E-01	3.22E-01	2.10E+00	3.22E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	5.67E-02	8.85E-02	0.00E+00	3.50E-01	1.36E-01	0.00E+00	9.87E-01	0.00E+00	1.73E-02	0.00E+00	1.64E+00	1.60E+02	1.02E-02	3.20E+02	5.11E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.2E+01	7.7E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.9E-06	1.4E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-04	3.1E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	7.1E-03	7.0E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	3.6E-04	3.6E-05
**Aldrin/Dieldrin/Endrin EEQ

Table O-187
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Raccoon-Louisiana Black Bear at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
																mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	1.18E-01	0.00E+00	3.25E-01	0.00E+00	3.49E-03	0.00E+00	4.48E-01	2.68E+00	1.67E-01	1.33E+01	3.37E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	3.36E-03	0.00E+00	5.44E-03	0.00E+00	9.80E-05	0.00E+00	8.92E-03	1.13E-01	7.89E-02	2.64E-01	3.38E-02
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.88E-10	1.41E-09	7.34E-09	5.74E-07	3.31E-07	1.75E-06	0.00E+00	1.43E-09	0.00E+00	1.60E-09	0.00E+00	2.66E-06	1.00E-06	2.66E+00	1.00E-05	2.66E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.91E-02	0.00E+00	0.00E+00	1.90E-01	0.00E+00	6.74E-01	0.00E+00	2.02E-01	0.00E+00	1.12E+00	2.00E-01	5.58E+00	3.00E-01	3.72E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	8.44E-05	0.00E+00	1.46E-02	0.00E+00	5.06E-04	0.00E+00	1.54E-02	2.00E-01	7.68E-02	1.50E+00	1.02E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	9.02E-04	0.00E+00	2.44E-02	0.00E+00	9.90E-04	0.00E+00	2.65E-02	2.00E-01	1.33E-01	6.00E-01	4.42E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.16E-08	0.00E+00	0.00E+00	1.02E-05	0.00E+00	2.11E-07	0.00E+00	2.53E-07	0.00E+00	1.08E-05	8.00E-01	1.35E-05	4.00E+00	2.69E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.06E-07	0.00E+00	0.00E+00	3.44E-05	0.00E+00	5.47E-06	0.00E+00	7.31E-07	0.00E+00	4.09E-05	8.00E-01	5.11E-05	4.00E+00	1.02E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.86E-08	0.00E+00	0.00E+00	4.92E-06	0.00E+00	9.79E-08	0.00E+00	1.70E-07	0.00E+00	5.22E-06	8.00E-01	6.52E-06	4.00E+00	1.30E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.90E-08	0.00E+00	0.00E+00	4.90E-06	0.00E+00	5.01E-08	0.00E+00	1.19E-07	0.00E+00	5.10E-06	4.58E+00	1.11E-06	9.16E+00	5.57E-07
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.04E-01	1.03E+00	9.03E-01	3.12E-02	4.96E+01	1.14E+00	0.00E+00	8.90E-02	0.00E+00	2.79E-02	0.00E+00	5.33E+01	1.93E+00	2.76E+01	1.93E+01	2.76E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	3.14E-03	0.00E+00	7.71E-04	0.00E+00	1.52E-04	0.00E+00	4.32E-03	1.25E-01	3.45E-02	1.25E+00	3.45E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.35E-07	0.00E+00	0.00E+00	5.67E-05	0.00E+00	2.34E-06	0.00E+00	1.38E-06	0.00E+00	6.07E-05	6.85E-02	8.87E-04	6.85E-01	8.87E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.98E-07	0.00E+00	0.00E+00	1.04E-04	0.00E+00	2.27E-07	0.00E+00	2.27E-06	0.00E+00	1.07E-04	6.80E-02	1.57E-03	6.90E-01	1.55E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.66E-07	0.00E+00	0.00E+00	4.86E-05	0.00E+00	5.18E-08	0.00E+00	1.82E-06	0.00E+00	5.07E-05	6.80E-02	7.46E-04	6.90E-01	7.35E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.87E-02	1.01E-01	0.00E+00	1.38E+00	1.18E-02	0.00E+00	3.17E+00	0.00E+00	1.20E-02	0.00E+00	4.70E+00	5.10E+00	9.22E-01	1.98E+01	2.37E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	6.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-03	1.83E+01	3.62E-04	1.83E+02	3.63E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	1.83E-05	5.20E-05	0.00E+00	1.57E-03	1.29E-03	0.00E+00	1.85E-03	0.00E+00	1.71E-04	0.00E+00	4.95E-03	1.00E+00	4.95E-03	1.00E+01	4.95E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.52E-04	0.00E+00	1.58E-03	4.53E-03	0.00E+00	3.23E-04	0.00E+00	3.26E-02	0.00E+00	1.89E-03	0.00E+00	4.12E-02	2.74E+03	1.50E-05	2.74E+04	1.50E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.52E-04	0.00E+00	2.25E-05	4.53E-03	0.00E+00	4.58E-06	0.00E+00	4.63E-04	0.00E+00	2.68E-05	0.00E+00	5.30E-03	3.28E+00	1.62E-03	1.31E+01	4.03E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	3.36E-04	7.79E-04	1.37E-03	3.57E-02	4.38E-02	1.22E-02	0.00E+00	2.33E-02	0.00E+00	7.31E-04	0.00E+00	1.18E-01	1.17E+01	1.01E-02	1.51E+01	7.80E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	4.39E-08	0.00E+00	0.00E+00	7.18E-06	0.00E+00	7.19E-08	0.00E+00	1.91E-07	0.00E+00	7.49E-06	9.20E-02	8.14E-05	9.20E-01	8.14E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	3.49E-03	0.00E+00	1.70E-05	0.00E+00	8.63E-05	0.00E+00	3.61E-03	8.00E-02	4.51E-02	2.90E-01	1.25E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	1.95E-02	0.00E+00	5.13E-02	0.00E+00	5.87E-04	0.00E+00	7.15E-02	1.00E+00	7.15E-02	5.00E+00	1.43E-02
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.79E-01	0.00E+00	1.28E+00	1.04E+01	0.00E+00	1.07E+00	0.00E+00	2.20E-01	0.00E+00	9.46E-03	0.00E+00	1.36E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.44E-04	0.00E+00	1.78E-02	3.88E-03	NA	3.54E-03	NA	2.07E-02	0.00E+00	8.47E-04	0.00E+00	4.69E-02	8.00E+00	5.86E-03	8.00E+01	5.86E-04
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.86E-02	0.00E+00	6.70E-01	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-01	8.80E+01	7.82E-03	2.84E+02	2.42E-03
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	5.59E-04	NA	4.79E-04	0.00E+00	4.04E-06	0.00E+00	1.05E-03	1.00E+00	1.05E-03	3.00E+00	3.51E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	8.30E-06	0.00E+00	0.00E+00	6.67E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.50E-05	1.50E-02	5.00E-03	2.50E-02	3.00E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.52E-08	0.00E+00	0.00E+00	6.13E-06	0.00E+00	5.19E-08	0.00E+00	1.45E-07	0.00E+00	6.36E-06	7.00E-02	9.08E-05	7.00E-01	9.08E-06
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	1.10E-03	7.49E-04	0.00E+00	2.73E-02	3.80E-02	0.00E+00	2.11E-03	0.00E+00	2.70E-04	0.00E+00	6.95E-02	4.00E+01	1.74E-03	8.00E+01	8.69E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.48E-02	7.49E-05	1.08E-04	2.85E-01	1.69E-03	1.31E-03	0.00E+00	1.61E-03	0.00E+00	6.39E-05	0.00E+00	3.04E-01	5.07E+02	6.00E-04	1.13E+03	2.69E-04
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.16E+00	0.00E+00	0.00E+00	2.23E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E+01	5.07E+02	4.63E-02	1.13E+03	2.08E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.51E-07	0.00E+00	0.00E+00	5.43E-05	0.00E+00	2.84E-06	0.00E+00	1.45E-06	0.00E+00	5.89E-05	2.10E+00	2.81E-05	6.30E+00	9.36E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.98E-08	0.00E+00	0.00E+00	4.85E-06	0.00E+00	4.28E-08	0.00E+00	1.23E-07	0.00E+00	5.04E-06	2.40E-01	2.10E-05	2.40E+00	2.10E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	1.61E-04	NA	1.45E-02	0.00E+00	7.85E-06	0.00E+00	1.47E-02	8.50E+00	1.73E-03	2.55E+01	5.76E-04
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	9.21E-05	9.09E-05	6.76E-05	3.39E-04	4.38E-03	7.47E-04	0.00E+00	1.41E-03	0.00E+00	4.71E-05	0.00E+00	7.18E-03	2.00E-01	3.59E-02	3.30E-01	2.17E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	9.77E-03	0.00E+00	4.92E-02	0.00E+00	1.95E-03	0.00E+00	6.42E-02	2.63E+02	2.44E-04	7.89E+02	8.14E-05
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.15E+00	7.52E-03	1.04E-02	2.20E+01	1.69E-01	1.27E-01	0.00E+00	1.56E-01	0.00E+00	6.18E-03	0.00E+00	2.36E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.50E-05	6.00E-05	0.00E+00	4.29E-03	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-03	7.40E-03	9.81E-01	7.40E-02	9.81E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.23E-03	0.00E+00	2.15E-03	2.36E-02	0.00E+00	2.02E-03	0.00E+00	3.68E-04	0.00E+00	4.54E-05	0.00E+00	2.94E-02	2.10E-01	1.40E-01	2.10E+00	1.40E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	3.58E-03	6.25E-03	0.00E+00	2.89E-01	3.21E-02	0.00E+00	2.11E-01	0.00E+00	1.01E-02	0.00E+00	5.52E-01	1.60E+02	3.45E-03	3.20E+02	1.72E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	5.8E+00	3.8E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.1E-06	5.6E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.1E-05	1.4E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.2E-03	3.2E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	3.6E-04	3.6E-05
**Aldrin/Dieldrin/

Table O-188
BERA Tier 2 COPCs
EEQs and Hazard Indices for the Raccoon -Louisiana Black Bear at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
										----------Unitless----------						mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	4.16E-02	0.00E+00	1.24E-01	0.00E+00	1.62E-03	0.00E+00	1.68E-01	2.68E+00	6.27E-02	1.33E+01	1.26E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	1.21E-03	0.00E+00	2.83E-03	0.00E+00	4.68E-05	0.00E+00	4.11E-03	1.13E-01	3.64E-02	2.64E-01	1.56E-02
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.59E-10	4.00E-10	3.17E-09	6.60E-08	2.00E-08	3.74E-07	0.00E+00	5.26E-10	0.00E+00	5.35E-10	0.00E+00	4.64E-07	1.00E-06	4.64E-01	1.00E-05	4.64E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.47E-02	0.00E+00	0.00E+00	9.55E-02	0.00E+00	1.69E-01	0.00E+00	7.75E-02	0.00E+00	3.67E-01	2.00E-01	1.83E+00	3.00E-01	1.22E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	3.82E-05	0.00E+00	5.08E-03	0.00E+00	1.74E-04	0.00E+00	5.34E-03	2.00E-01	2.67E-02	1.50E+00	3.56E-03
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	4.67E-04	0.00E+00	1.14E-02	0.00E+00	3.90E-04	0.00E+00	1.23E-02	2.00E-01	6.17E-02	6.00E-01	2.06E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.56E-08	0.00E+00	0.00E+00	4.37E-06	0.00E+00	5.47E-08	0.00E+00	1.43E-07	0.00E+00	4.61E-06	8.00E-01	5.77E-06	4.00E+00	1.15E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.48E-07	0.00E+00	0.00E+00	1.42E-05	0.00E+00	8.61E-07	0.00E+00	4.97E-07	0.00E+00	1.57E-05	8.00E-01	1.97E-05	4.00E+00	3.94E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	1.99E-08	0.00E+00	0.00E+00	1.97E-06	0.00E+00	2.38E-08	0.00E+00	6.29E-08	0.00E+00	2.08E-06	8.00E-01	2.60E-06	4.00E+00	5.20E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.37E-08	0.00E+00	0.00E+00	2.31E-06	0.00E+00	9.47E-09	0.00E+00	7.42E-08	0.00E+00	2.42E-06	4.58E+00	5.27E-07	9.16E+00	2.64E-07
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.23E-01	7.51E-01	6.96E-01	1.72E-02	3.62E+01	3.21E-01	0.00E+00	4.47E-02	0.00E+00	1.65E-02	0.00E+00	3.83E+01	1.93E+00	1.98E+01	1.93E+01	1.98E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	6.63E-04	0.00E+00	3.27E-04	0.00E+00	8.16E-05	0.00E+00	1.28E-03	1.25E-01	1.02E-02	1.25E+00	1.02E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.22E-07	0.00E+00	0.00E+00	2.17E-05	0.00E+00	7.99E-08	0.00E+00	6.96E-07	0.00E+00	2.27E-05	6.85E-02	3.32E-04	6.85E-01	3.32E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	4.22E-07	0.00E+00	0.00E+00	4.22E-05	0.00E+00	6.46E-08	0.00E+00	7.49E-07	0.00E+00	4.35E-05	6.80E-02	6.39E-04	6.90E-01	6.30E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	1.94E-07	0.00E+00	0.00E+00	2.04E-05	0.00E+00	5.34E-09	0.00E+00	1.16E-06	0.00E+00	2.18E-05	6.80E-02	3.21E-04	6.90E-01	3.16E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	2.32E-02	5.34E-02	0.00E+00	1.12E+00	7.88E-03	0.00E+00	1.67E+00	0.00E+00	3.81E-03	0.00E+00	2.88E+00	5.10E+00	5.64E-01	1.98E+01	1.45E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	2.33E-05	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	1.83E+01	6.48E-05	1.83E+02	6.49E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	1.83E-05	4.73E-05	0.00E+00	1.18E-04	1.25E-03	0.00E+00	1.76E-03	0.00E+00	1.14E-04	0.00E+00	3.30E-03	1.00E+00	3.30E-03	1.00E+01	3.30E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.98E-04	0.00E+00	1.44E-03	1.28E-03	0.00E+00	2.94E-04	0.00E+00	2.54E-03	0.00E+00	4.36E-04	0.00E+00	6.19E-03	2.74E+03	2.26E-06	2.74E+04	2.26E-07
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.98E-04	0.00E+00	2.05E-05	1.28E-03	0.00E+00	4.17E-06	0.00E+00	3.60E-05	0.00E+00	6.19E-06	0.00E+00	1.55E-03	3.28E+00	4.71E-04	1.31E+01	1.18E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	2.36E-04	6.82E-04	1.09E-03	4.71E-03	1.14E-02	1.15E-02	0.00E+00	2.13E-02	0.00E+00	3.51E-04	0.00E+00	5.13E-02	1.17E+01	4.39E-03	1.51E+01	3.39E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	3.17E-08	0.00E+00	0.00E+00	2.99E-06	0.00E+00	3.73E-08	0.00E+00	1.38E-07	0.00E+00	3.20E-06	9.20E-02	3.48E-05	9.20E-01	3.48E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	1.46E-03	0.00E+00	1.04E-05	0.00E+00	4.77E-05	0.00E+00	1.53E-03	8.00E-02	1.92E-02	2.90E-01	5.29E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	8.13E-03	0.00E+00	3.71E-02	0.00E+00	3.23E-04	0.00E+00	4.57E-02	1.00E+00	4.57E-02	5.00E+00	9.13E-03
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.21E-01	0.00E+00	1.12E+00	1.44E+00	0.00E+00	4.32E-01	0.00E+00	1.92E-01	0.00E+00	7.03E-03	0.00E+00	3.51E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.13E-04	0.00E+00	1.32E-02	9.07E-04	NA	2.62E-03	NA	1.75E-02	0.00E+00	5.50E-04	0.00E+00	3.49E-02	8.00E+00	4.36E-03	8.00E+01	4.36E-04
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.38E-02	0.00E+00	0.00E+00	6.18E-02	0.00E+00	NA	0.00E+00	0.00E+00	2.64E-08	0.00E+00	7.03E-08	0.00E+00	2.23E-06	2.40E-01	9.27E-06	2.40E+00	9.27E-07
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	9.02E-06	0.00E+00	0.00E+00	5.24E-04	NA	4.30E-04	0.00E+00	2.95E-06	0.00E+00	9.66E-04	1.00E+00	9.66E-04	3.00E+00	3.22E-04
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	6.13E-06	0.00E+00	0.00E+00	4.93E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	5.54E-05	1.50E-02	3.69E-03	2.50E-02	2.22E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.47E-08	0.00E+00	0.00E+00	2.48E-06	0.00E+00	3.65E-09	0.00E+00	7.74E-08	0.00E+00	2.59E-06	7.00E-02	3.70E-05	7.00E-01	3.70E-06
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	9.71E-04	7.05E-04	0.00E+00	5.06E-03	8.00E-03	0.00E+00	2.01E-03	0.00E+00	2.19E-04	0.00E+00	1.70E-02	4.00E+01	4.24E-04	8.00E+01	2.12E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.59E-03	4.60E-05	6.13E-05	4.64E-02	2.07E-04	1.97E-04	0.00E+00	5.52E-04	0.00E+00	2.42E-05	0.00E+00	5.61E-02	5.07E+02	1.11E-04	1.13E+03	4.96E-05
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.83E-01	0.00E+00	0.00E+00	3.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E+00	5.07E+02	7.36E-03	1.13E+03	3.30E-03	
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.21E-07	0.00E+00	0.00E+00	2.86E-05	0.00E+00	2.27E-06	0.00E+00	1.00E-06	0.00E+00	3.22E-05	2.10E+00	1.53E-05	6.30E+00	5.11E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.25E-08	0.00E+00	0.00E+00	2.11E-06	0.00E+00	2.64E-08	0.00E+00	7.03E-08	0.00E+00	2.23E-06	2.40E-01	9.27E-06	2.40E+00	9.27E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	3.11E-05	NA	1.20E-02	0.00E+00	3.82E-06	0.00E+00	1.21E-02	8.50E+00	1.42E-03	2.55E+01	4.74E-04
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	7.77E-05	7.66E-05	5.99E-05	2.86E-04	3.69E-03	6.84E-04	0.00E+00	1.24E-03	0.00E+00	3.23E-05	0.00E+00	6.14E-03	2.00E-01	3.07E-02	3.30E-01	1.86E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.45E-03	0.00E+00	0.00E+00	2.29E-03	0.00E+00	2.21E-02	0.00E+00	9.70E-04	0.00E+00	2.78E-02	2.63E+02	1.06E-04	7.89E+02	3.52E-05
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.26E-01	5.13E-03	4.15E-03	4.46E+00	2.31E-02	1.33E-02	0.00E+00	3.73E-02	0.00E+00	1.64E-03	0.00E+00	5.37E+00	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.17E-05	4.92E-05	0.00E+00	1.57E-05	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	7.40E-03	3.31E-01	7.40E-02	3.31E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	8.53E-04	0.00E+00	1.89E-03	4.61E-03	0.00E+00	8.52E-04	0.00E+00	2.92E-04	0.00E+00	3.71E-05	0.00E+00	8.54E-03	2.10E-01	4.07E-02	2.10E+00	4.07E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	3.16E-03	4.93E-03	0.00E+00	6.55E-02	2.53E-02	0.00E+00	1.85E-01	0.00E+00	3.24E-03	0.00E+00	2.87E-01	1.60E+02	1.79E-03	3.20E+02	8.96E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.9E+00	1.2E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	5.3E-07	2.6E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.8E-05	5.6E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-03	1.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	6.5E-05	6.5E-06
**Aldrin/Dieldrin/

Table O-189
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
										----------Unitless----------						mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.38E-01	0.00E+00	0.00E+00	2.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E+01	2.68E+00	9.01E+00	1.33E+01	1.81E+00
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.73E-02	0.00E+00	0.00E+00	1.75E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E+00	1.13E-01	1.56E+01	2.64E-01	6.69E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.40E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.08E-09	0.00E+00	4.75E-07	0.00E+00	0.00E+00	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	1.00E-06	8.18E+01	1.00E-05	8.18E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.01E+00	0.00E+00	0.00E+00	1.11E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E+01	2.00E-01	7.55E+01	3.00E-01	5.03E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.01E+02	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.41E+00	0.00E+00	0.00E+00	6.93E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	2.00E-01	1.05E+01	1.50E+00	1.40E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+01	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	0.00E+00	5.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-01	2.00E-01	3.51E+00	6.00E-01	1.17E+00
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	5.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-04	8.00E-01	1.08E-03	4.00E+00	2.17E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-03	8.00E-01	5.18E-03	4.00E+00	1.04E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	4.09E-06	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	8.00E-01	6.38E-04	4.00E+00	1.28E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.13E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.98E-06	0.00E+00	0.00E+00	3.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	4.58E+00	7.94E-05	9.16E+00	3.97E-05
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.30E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.47E+00	0.00E+00	1.30E+02	0.00E+00	0.00E+00	1.18E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E+02	1.93E+00	1.31E+02	1.93E+01	1.31E+01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	8.22E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	1.25E-01	8.97E-01	1.25E+00	8.97E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	5.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-03	6.85E-02	7.70E-02	6.85E-01	7.70E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	6.24E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	8.72E-05	0.00E+00	0.00E+00	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	6.80E-02	1.61E-01	6.80E-01	1.61E-02
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	4.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	6.80E-02	7.06E-02	6.80E-01	7.06E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	5.53E+02	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.36E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	7.72E+00	0.00E+00	0.00E+00	8.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E+00	5.10E+00	1.67E+00	1.98E+01	4.31E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	5.43E-01	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.58E-03	0.00E+00	0.00E+00	8.70E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-01	1.59E+01	5.52E-02	4.70E+01	1.87E-02
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	6.67E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.97E+00	1.33E+00	7.42E-01	7.42E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	9.32E-03	0.00E+00	0.00E+00	1.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-01	1.00E+00	1.51E-01	1.00E+01	1.51E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.69E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.79E-03	0.00E+00	2.36E-01	0.00E+00	0.00E+00	3.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-01	2.74E+03	9.99E-05	2.74E+04	9.99E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.40E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.79E-03	0.00E+00	3.35E-03	0.00E+00	0.00E+00	4.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03	3.28E+00	2.02E-03	1.31E+01	5.05E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	9.45E-01	5.59E-01	4.40E-01	4.40E-01	1.49E-01	1.49E-01	3.72E-03	0.00E+00	1.61E-01	0.00E+00	0.00E+00	1.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E+00	1.17E+01	1.14E-01	1.51E+01	8.80E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	8.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-04	9.20E-02	8.82E-03	9.20E-01	8.82E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.53E-03	0.00E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-01	8.00E-02	2.31E+00	2.90E-01	6.37E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.89E-02	0.00E+00	0.00E+00	1.86E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E+00	1.00E+00	1.88E+00	5.00E+00	3.75E-01
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.42E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.40E+00	0.00E+00	1.98E+02	0.00E+00	0.00E+00	1.19E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	1.59E-03	0.00E+00	2.11E+00	0.00E+00	NA	3.00E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E+00	8.00E+00	3.02E-01	8.00E+01	3.02E-02
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.06E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-01	8.80E+01	2.34E-03	2.84E+02	7.26E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.67E-02	mg/kg	1.00E+00		7.50E-01	5.17E+00	NA	1.08E+00	1.08E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.35E-03	0.00E+00	0.00E+00	5.37E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-02	1.32E+01	4.17E-03	3.96E+01	1.39E-03
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.89E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.04E-06	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	7.00E-02	7.26E-03	7.00E-01	7.26E-04
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	8.42E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.38E-02	6.38E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	1.18E-01	0.00E+00	0.00E+00	4.28E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E+00	4.00E+01	1.10E-01	8.00E+01	5.49E-02
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.34E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.64E-01	0.00E+00	1.87E-02	0.00E+00	0.00E+00	1.64E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.46E-01	5.07E+02	6.83E-04	1.13E+03	3.07E-04
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E+01	5.07E+02	2.54E-02	1.13E+03	1.14E-02
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.40E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	6.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-03	2.10E+00	3.28E-03	6.30E+00	1.09E-03
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.58E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	2.40E-01	1.77E-03	2.40E+00	1.77E-04
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.61E-01	mg/kg	1.00E+00			1.14E+00	NA	1.93E+01	1.93E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.64E-03	0.00E+00	0.00E+00	3.19E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E-02	8.50E+00	4.18E-03	2.55E+01	1.39E-03
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.71E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	1.02E-03	0.00E+00	9.37E-03	0.00E+00	0.00E+00	7.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-02	2.00E-01	4.24E-01	3.30E-01	2.57E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.71E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.78E-01	0.00E+00	0.00E+00	8.09E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E+00	2.63E+02	4.52E-03	7.89E+02	1.51E-03
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	4.00E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.27E+01	0.00E+00	5.59E+00	0.00E+00	0.00E+00	4.90E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	7.40E-03	2.24E-02	7.40E-02	2.24E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.36E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.36E-02	0.00E+00	3.30E-01	0.00E+00	0.00E+00	2.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-01	2.10E-01	2.70E+00	2.10E+00	2.70E-01
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.17E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.56E-01	8.56E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	7.22E-01	0.00E+00	0.00E+00	2.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E+00	1.60E+02	2.12E-02	3.20E+02	1.06E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	9.0E+01	5.3E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	7.9E-05	4.0E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.9E-03	1.4E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.1E-01	3.1E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	5.5E-02	1.9E-02
**Aldrin/Dieldr

Table O-190
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Short-tailed Shrew at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
													----------Unitless----------			mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.26E+01	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.76E-01	0.00E+00	0.00E+00	1.02E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E+01	2.68E+00	3.86E+00	1.33E+01	7.77E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.14E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	9.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-01	1.13E-01	8.33E+00	2.64E-01	3.57E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	2.05E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.76E-09	0.00E+00	2.87E-07	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	1.00E-06	2.46E+01	1.00E-05	2.46E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.07E+00	0.00E+00	0.00E+00	5.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E+00	2.00E-01	3.90E+01	3.00E-01	2.60E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.04E+01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.04E-01	0.00E+00	0.00E+00	3.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00	2.00E-01	5.25E+00	1.50E+00	7.00E-01
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	7.15E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.98E-02	0.00E+00	0.00E+00	2.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-01	2.00E-01	1.84E+00	6.00E-01	6.14E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.06E-06	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	8.00E-01	4.41E-04	4.00E+00	8.83E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	1.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	8.00E-01	2.28E-03	4.00E+00	4.55E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.21E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.08E-06	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	8.00E-01	2.79E-04	4.00E+00	5.58E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.76E-06	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	4.58E+00	4.28E-05	9.16E+00	2.14E-05
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	8.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.47E+00	0.00E+00	1.12E+02	0.00E+00	0.00E+00	3.71E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+02	1.93E+00	7.85E+01	1.93E+01	7.85E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.95E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	2.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-02	1.25E-01	2.57E-01	1.25E+00	2.57E-02
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.09E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	2.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	6.85E-02	3.03E-02	6.85E-01	3.03E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.33E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	6.05E-05	0.00E+00	0.00E+00	4.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-03	6.80E-02	6.49E-02	6.80E-01	6.49E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.97E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.76E-05	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-03	6.80E-02	3.11E-02	6.80E-01	3.11E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	4.81E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.43E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	6.72E+00	0.00E+00	0.00E+00	7.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E+00	5.10E+00	1.46E+00	1.98E+01	3.77E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	4.45E-01	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.21E-03	0.00E+00	0.00E+00	4.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-01	1.59E+01	2.62E-02	4.70E+01	8.87E-03
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.66E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.19E+00	1.33E+00	7.99E-01	7.99E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	7.90E-03	0.00E+00	0.00E+00	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-01	1.00E+00	1.41E-01	1.00E+01	1.41E-02
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.55E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.19E-03	0.00E+00	2.17E-01	0.00E+00	0.00E+00	3.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-01	2.74E+03	9.16E-05	2.74E+04	9.16E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.20E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.19E-03	0.00E+00	3.08E-03	0.00E+00	0.00E+00	4.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-03	3.28E+00	1.74E-03	1.31E+01	4.35E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	9.30E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.11E+00	6.06E-01	5.01E-01	5.01E-01	8.97E-02	8.97E-02	2.61E-03	0.00E+00	1.30E-01	0.00E+00	0.00E+00	1.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E+00	1.17E+01	1.06E-01	1.51E+01	8.20E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.35E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.67E-06	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	9.20E-02	3.49E-03	9.20E-01	3.49E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	6.30E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.80E-04	0.00E+00	0.00E+00	6.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-02	8.00E-02	7.68E-01	2.90E-01	2.12E-01
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.40E-02	0.00E+00	0.00E+00	7.90E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-01	1.00E+00	8.04E-01	5.00E+00	1.61E-01
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.27E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.55E+00	0.00E+00	1.78E+02	0.00E+00	0.00E+00	4.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	1.25E-03	0.00E+00	1.68E+00	0.00E+00	NA	2.38E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+00	8.00E+00	2.40E-01	8.00E+01	2.40E-02
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-01	8.80E+01	1.73E-03	2.84E+02	5.36E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	8.59E-02	mg/kg	1.00E+00		7.50E-01	5.60E+00	NA	1.14E+00	1.14E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	5.16E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-02	1.32E+01	4.00E-03	3.96E+01	1.33E-03
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.33E-06	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	7.00E-02	3.47E-03	7.00E-01	3.47E-04
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.73E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.51E-02	6.51E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	8.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-01	4.00E+01	2.47E-02	8.00E+01	1.23E-02
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.50E-02	0.00E+00	1.40E-02	0.00E+00	0.00E+00	3.23E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-01	5.07E+02	2.78E-04	1.13E+03	1.25E-04
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								6.44E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E+00	5.07E+02	1.27E-02	1.13E+03	5.70E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.13E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	2.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	2.10E+00	1.35E-03	6.30E+00	4.51E-04
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.86E-06	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	2.40E-01	8.14E-04	2.40E+00	8.14E-05
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00			3.00E-01	NA	2.34E+01	2.34E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00	5.26E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-03	8.50E+00	8.87E-04	2.55E+01	2.96E-04
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.94E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E+00	1.51E+00	8.59E-04	0.00E+00	8.29E-03	0.00E+00	0.00E+00	6.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-02	2.00E-01	3.86E-01	3.30E-01	2.34E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.95E-01	0.00E+00	0.00E+00	1.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-01	2.63E+02	1.87E-03	7.89E+02	6.25E-04
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	2.41E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.13E+00	0.00E+00	3.36E+00	0.00E+00	0.00E+00	7.76E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	7.40E-03	1.74E-02	7.40E-02	1.74E-03
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	2.08E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	9.43E-03	0.00E+00	2.91E-01	0.00E+00	0.00E+00	9.39E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	2.10E-01	1.88E+00	2.10E+00	1.88E-01
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.15E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	9.42E-01	9.42E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	5.79E-01	0.00E+00	0.00E+00	2.14E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E+00	1.60E+02	1.70E-02	3.20E+02	8.50E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	4.6E+01	2.7E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.3E-05	2.1E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	3.0E-03	6.0E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.3E-01	1.3E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.6E-02	8.9E-03
**Aldrin/Dieldrin/Endrin EEQ

Table O-191
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
													----------Unitless----------			mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.71E+01	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.62E-02	0.00E+00	0.00E+00	2.26E-01	0.00E+00	6.19E-01	0.00E+00	4.65E-01	9.96E-02	1.43E+00	2.68E+00	5.32E-01	1.33E+01	1.07E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.17E-03	0.00E+00	0.00E+00	1.65E-02	0.00E+00	2.68E-02	0.00E+00	3.38E-02	7.23E-03	8.54E-02	1.13E-01	7.56E-01	2.64E-01	3.24E-01
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	3.40E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	7.97E-10	0.00E+00	3.23E-08	0.00E+00	0.00E+00	7.67E-07	0.00E+00	6.27E-10	0.00E+00	4.90E-08	1.05E-08	8.60E-07	1.00E-06	8.60E-01	1.00E-05	8.60E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.87E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.72E-01	0.00E+00	0.00E+00	1.05E-01	0.00E+00	3.72E-01	0.00E+00	7.82E+00	1.68E+00	1.02E+01	2.00E-01	5.12E+01	3.00E-01	3.41E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.01E+02	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.56E-02	0.00E+00	0.00E+00	6.54E-03	0.00E+00	1.14E+00	0.00E+00	2.75E+00	5.89E-01	4.57E+00	2.00E-01	2.29E+01	1.50E+00	3.05E+00
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+01	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.29E-02	0.00E+00	0.00E+00	4.83E-03	0.00E+00	1.31E-01	0.00E+00	3.71E-01	7.95E-02	5.99E-01	2.00E-01	2.99E+00	6.00E-01	9.98E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	5.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.88E-07	0.00E+00	0.00E+00	8.11E-06	0.00E+00	1.67E-07	0.00E+00	1.40E-05	3.01E-06	2.58E-05	8.00E-01	3.23E-05	4.00E+00	6.45E-06
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.32E-06	0.00E+00	0.00E+00	3.88E-05	0.00E+00	6.17E-06	0.00E+00	5.77E-05	1.24E-05	1.17E-04	8.00E-01	1.47E-04	4.00E+00	2.93E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.93E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	2.77E-07	0.00E+00	0.00E+00	4.77E-06	0.00E+00	9.49E-08	0.00E+00	1.15E-05	2.47E-06	1.91E-05	8.00E-01	2.39E-05	4.00E+00	4.78E-06
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.13E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.02E-07	0.00E+00	0.00E+00	3.40E-06	0.00E+00	3.48E-08	0.00E+00	5.81E-06	1.24E-06	1.07E-05	4.58E+00	2.33E-06	9.16E+00	1.17E-06
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.30E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.72E+00	0.00E+00	8.81E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	8.67E-02	0.00E+00	1.90E+00	4.08E-01	1.40E+01	1.93E+00	7.27E+00	1.93E+01	7.27E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	8.22E-01	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	9.49E-04	0.00E+00	2.33E-04	0.00E+00	3.23E-03	6.92E-04	5.88E-03	1.25E-01	4.71E-02	1.25E+00	4.71E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.08E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.92E-06	0.00E+00	0.00E+00	4.94E-05	0.00E+00	2.04E-06	0.00E+00	8.39E-05	1.80E-05	1.56E-04	6.85E-02	2.28E-03	6.85E-01	2.28E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	6.24E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	5.91E-06	0.00E+00	0.00E+00	1.03E-04	0.00E+00	2.24E-07	0.00E+00	1.57E-04	3.36E-05	2.99E-04	6.80E-02	4.40E-03	6.90E-01	4.33E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.60E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	4.50E-05	0.00E+00	4.79E-08	0.00E+00	1.18E-04	2.53E-05	1.91E-04	6.80E-02	2.81E-03	6.90E-01	2.77E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	5.53E+02	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.36E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	5.24E-01	0.00E+00	0.00E+00	7.62E-03	0.00E+00	1.64E+00	0.00E+00	4.33E-01	9.28E-02	2.69E+00	5.10E+00	5.28E-01	1.98E+01	1.36E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	5.43E-01	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	5.14E-04	0.00E+00	0.00E+00	8.20E-03	0.00E+00	1.36E-04	0.00E+00	1.48E-02	3.17E-03	2.68E-02	1.59E+01	1.69E-03	4.70E+01	5.71E-04
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	6.67E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	1.97E+00	1.33E+00	7.42E-01	7.42E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	6.32E-04	0.00E+00	0.00E+00	1.33E-03	0.00E+00	2.01E-03	0.00E+00	1.46E-02	3.12E-03	2.17E-02	1.00E+00	2.17E-02	1.00E+01	2.17E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.69E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.07E-03	0.00E+00	1.60E-02	0.00E+00	0.00E+00	3.26E-04	0.00E+00	3.29E-02	0.00E+00	1.33E-01	2.86E-02	2.12E-01	2.74E+03	7.75E-05	2.74E+04	7.75E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.40E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.07E-03	0.00E+00	2.27E-04	0.00E+00	0.00E+00	4.62E-06	0.00E+00	4.67E-04	0.00E+00	1.89E-03	4.05E-04	4.07E-03	3.28E+00	1.24E-03	1.31E+01	3.09E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.15E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	9.45E-01	5.59E-01	4.40E-01	4.40E-01	1.49E-01	1.49E-01	1.43E-03	0.00E+00	1.09E-02	0.00E+00	0.00E+00	1.10E-02	0.00E+00	2.05E-02	0.00E+00	4.06E-02	8.71E-03	9.32E-02	1.17E+01	7.97E-03	1.51E+01	6.16E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	4.65E-07	0.00E+00	0.00E+00	7.59E-06	0.00E+00	7.60E-08	0.00E+00	1.41E-05	3.02E-06	2.53E-05	9.20E-02	2.75E-04	9.20E-01	2.75E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	1.73E-03	0.00E+00	8.41E-06	0.00E+00	2.99E-03	6.42E-04	5.48E-03	8.00E-02	6.84E-02	2.90E-01	1.89E-02
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.36E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.29E-03	0.00E+00	0.00E+00	1.75E-02	0.00E+00	4.61E-02	0.00E+00	3.70E-02	7.92E-03	1.10E-01	1.00E+00	1.10E-01	5.00E+00	2.20E-02
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.42E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.46E+00	0.00E+00	1.35E+01	0.00E+00	0.00E+00	1.12E+00	0.00E+00	2.30E-01	0.00E+00	6.95E-01	1.49E-01	1.81E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.51E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.91E-02	2.91E-02	1.33E-02	1.33E-02	6.12E-04	0.00E+00	1.43E-01	0.00E+00	NA	2.83E-03	NA	1.78E-02	0.00E+00	4.76E-02	1.02E-02	2.22E-01	8.00E+00	2.78E-02	8.00E+01	2.78E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	7.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06	0.00E+00	3.50E-08	0.00E+00	7.02E-06	1.50E-06	1.28E-05	2.40E-01	5.32E-05	2.40E+00	5.32E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.67E-02	mg/kg	1.00E+00		7.50E-01	5.17E+00	NA	1.08E+00	1.08E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	5.07E-04	NA	4.22E-04	0.00E+00	2.35E-04	5.04E-05	1.31E-03	1.00E+00	1.31E-03	3.00E+00	4.35E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.89E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.74E-07	0.00E+00	0.00E+00	4.75E-06	0.00E+00	4.03E-08	0.00E+00	7.88E-06	1.69E-06	1.46E-05	7.00E-02	2.09E-04	7.00E-01	2.09E-05
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	8.42E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.38E-02	6.38E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	7.97E-03	0.00E+00	0.00E+00	4.03E-02	0.00E+00	2.18E-03	0.00E+00	2.01E-02	4.31E-03	7.49E-02	4.00E+01	1.87E-03	8.00E+01	9.37E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.34E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.30E-02	0.00E+00	1.27E-03	0.00E+00	0.00E+00	1.55E-03	0.00E+00	1.90E-03	0.00E+00	5.26E-03	1.13E-03	7.41E-02	5.07E+02	1.46E-04	1.13E+03	6.55E-05
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								4.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E+00	5.07E+02	9.73E-03	1.13E+03	4.37E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.40E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.17E-06	0.00E+00	0.00E+00	6.43E-05	0.00E+00	3.37E-06	0.00E+00	1.20E-04	2.57E-05	2.17E-04	2.10E+00	1.04E-04	6.30E+00	3.45E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.58E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.44E-07	0.00E+00	0.00E+00	3.96E-06	0.00E+00	3.50E-08	0.00E+00	7.02E-06	1.50E-06	1.28E-05	2.40E-01	5.32E-05	2.40E+00	5.32E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	2.61E-01	mg/kg	1.00E+00			1.14E+00	NA	1.93E+01	1.93E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	3.01E-04	NA	2.04E-02	0.00E+00	1.02E-03	2.20E-04	2.22E-02	8.50E+00	2.62E-03	2.55E+01	8.72E-04
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.71E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	3.91E-04	0.00E+00	6.36E-04	0.00E+00	0.00E+00	7.03E-04	0.00E+00	1.32E-03	0.00E+00	3.10E-03	6.63E-04	6.81E-03	2.00E-01	3.41E-02	3.30E-01	2.06E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.71E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	2.57E-02	0.00E+00	0.00E+00	7.63E-03	0.00E+00	3.84E-02	0.00E+00	1.06E-01	2.28E-02	2.01E-01	2.63E+02	7.65E-04	7.89E+02	2.55E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	4.00E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.86E+00	0.00E+00	3.79E-01	0.00E+00	0.00E+00	4.62E-01	0.00E+00	5.67E-01	0.00E+00	1.57E+00	3.37E-01	8.18E+00	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	7.40E-03	8.62E-03	7.40E-02	8.62E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.36E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	5.22E-03	0.00E+00	2.24E-02	0.00E+00	0.00E+00	2.10E-03	0.00E+00	3.83E-04	0.00E+00	3.30E-03	7.08E-04	3.41E-02	2.10E-01	1.62E-01	2.10E+00	1.62E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	5.17E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	8.56E-01	8.56E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	4.90E-02	0.00E+00	0.00E+00	2.51E-02	0.00E+00	1.79E-01	0.00E+00	5.51E-01	1.18E-01	9.22E-01	1.60E+02	5.76E-03	3.20E+02	2.88E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	7.7E+01	3.8E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.3E-06	1.2E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-04	4.1E-05
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	9.5E-03	9.4E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.7E-03	5.7E-04
**Aldrin/Dieldrin/Endrin EE

Table O-192
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red Fox at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Total Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
																mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.26E+01	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	1.82E-02	0.00E+00	5.43E-02	0.00E+00	4.94E-02	1.06E-02	1.35E-01	2.68E+00	5.03E-02	1.33E+01	1.01E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.14E+00	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	1.66E-03	0.00E+00	3.86E-03	0.00E+00	4.47E-03	9.57E-04	1.11E-02	1.13E-01	9.86E-02	2.64E-01	4.22E-02
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	2.05E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.28E-10	0.00E+00	3.68E-09	0.00E+00	0.00E+00	4.34E-08	0.00E+00	6.11E-11	0.00E+00	4.35E-09	9.32E-10	5.25E-08	1.00E-06	5.25E-02	1.00E-05	5.25E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.66E-02	0.00E+00	0.00E+00	1.03E-02	0.00E+00	1.82E-02	0.00E+00	5.82E-01	1.25E-01	7.62E-01	2.00E-01	3.81E+00	3.00E-01	2.54E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.04E+01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.04E-03	0.00E+00	0.00E+00	6.19E-04	0.00E+00	8.23E-02	0.00E+00	1.98E-01	4.24E-02	3.32E-01	2.00E-01	1.66E+00	1.50E+00	2.21E-01
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	7.15E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	4.80E-04	0.00E+00	1.17E-02	0.00E+00	2.81E-02	6.02E-03	4.75E-02	2.00E-01	2.38E-01	6.00E-01	7.92E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	3.62E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.50E-08	0.00E+00	0.00E+00	6.22E-07	0.00E+00	7.79E-09	0.00E+00	1.42E-06	3.05E-07	2.42E-06	8.00E-01	3.03E-06	4.00E+00	6.05E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.86E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	3.33E-07	0.00E+00	0.00E+00	3.21E-06	0.00E+00	1.94E-07	0.00E+00	7.84E-06	1.68E-06	1.33E-05	8.00E-01	1.66E-05	4.00E+00	3.31E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.21E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.96E-08	0.00E+00	0.00E+00	3.93E-07	0.00E+00	4.75E-09	0.00E+00	8.77E-07	1.88E-07	1.50E-06	8.00E-01	1.88E-06	4.00E+00	3.76E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.55E-08	0.00E+00	0.00E+00	3.45E-07	0.00E+00	1.42E-09	0.00E+00	7.77E-07	1.66E-07	1.33E-06	4.58E+00	2.89E-07	9.16E+00	1.45E-07
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	8.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.80E-01	0.00E+00	1.44E+00	0.00E+00	0.00E+00	6.62E-02	0.00E+00	9.24E-03	0.00E+00	2.38E-01	5.10E-02	1.98E+00	1.93E+00	1.03E+00	1.93E+01	1.03E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	6.95E-01	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	4.00E-05	0.00E+00	1.97E-05	0.00E+00	3.45E-04	7.39E-05	6.03E-04	1.25E-01	4.83E-03	1.25E+00	4.83E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.09E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.75E-07	0.00E+00	0.00E+00	3.66E-06	0.00E+00	1.35E-08	0.00E+00	8.21E-06	1.76E-06	1.40E-05	6.85E-02	2.05E-04	6.85E-01	2.05E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.33E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.78E-07	0.00E+00	0.00E+00	7.78E-06	0.00E+00	1.19E-08	0.00E+00	9.66E-06	2.07E-06	2.03E-05	6.80E-02	2.99E-04	6.90E-01	2.94E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.97E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.54E-07	0.00E+00	0.00E+00	3.73E-06	0.00E+00	9.75E-10	0.00E+00	1.48E-05	3.17E-06	2.20E-05	6.80E-02	3.24E-04	6.90E-01	3.19E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	4.81E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.43E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	8.64E-02	0.00E+00	0.00E+00	1.32E-03	0.00E+00	2.70E-01	0.00E+00	4.32E-02	9.25E-03	4.10E-01	5.10E+00	8.04E-02	1.98E+01	2.07E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	4.45E-01	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.98E-05	0.00E+00	0.00E+00	7.34E-04	0.00E+00	1.92E-05	0.00E+00	1.75E-03	3.74E-04	2.95E-03	1.59E+01	1.86E-04	4.70E+01	6.29E-05
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.66E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.19E+00	1.33E+00	7.99E-01	7.99E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	2.38E-04	0.00E+00	3.48E-04	0.00E+00	1.71E-03	3.65E-04	2.76E-03	1.00E+00	2.76E-03	1.00E+01	2.76E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.55E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.59E-04	0.00E+00	2.79E-03	0.00E+00	0.00E+00	5.66E-05	0.00E+00	4.89E-04	0.00E+00	5.88E-03	1.26E-03	1.06E-02	2.74E+03	3.89E-06	2.74E+04	3.89E-07
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.20E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.59E-04	0.00E+00	3.96E-05	0.00E+00	0.00E+00	8.04E-07	0.00E+00	6.94E-06	0.00E+00	8.35E-05	1.79E-05	3.08E-04	3.28E+00	9.39E-05	1.31E+01	2.34E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	9.30E+00	mg/kg	1.00E+00	1.11E+03	1.56E+00	1.11E+00	6.06E-01	5.01E-01	5.01E-01	8.97E-02	8.97E-02	1.90E-04	0.00E+00	1.67E-03	0.00E+00	0.00E+00	1.98E-03	0.00E+00	3.58E-03	0.00E+00	3.74E-03	8.01E-04	1.20E-02	1.17E+01	1.02E-03	1.51E+01	7.90E-04
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.35E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	6.01E-08	0.00E+00	0.00E+00	5.66E-07	0.00E+00	7.05E-09	0.00E+00	1.82E-06	3.90E-07	2.84E-06	9.20E-02	3.09E-05	9.20E-01	3.09E-06
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	6.30E-02	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	1.08E-04	0.00E+00	7.69E-07	0.00E+00	2.47E-04	5.30E-05	4.21E-04	8.00E-02	5.26E-03	2.90E-01	1.45E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.00E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	1.41E-03	0.00E+00	6.44E-03	0.00E+00	3.93E-03	8.42E-04	1.28E-02	1.00E+00	1.28E-02	5.00E+00	2.56E-03
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.27E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.58E-01	0.00E+00	2.28E+00	0.00E+00	0.00E+00	8.79E-02	0.00E+00	3.91E-02	0.00E+00	1.00E-01	2.15E-02	2.79E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.20E+02	mg/kg	1.00E+00	4.48E+02	NA	1.84E-02	NA	3.21E-02	3.21E-02	1.16E-02	1.16E-02	9.06E-05	0.00E+00	2.16E-02	0.00E+00	NA	4.26E-04	NA	2.97E-03	0.00E+00	6.28E-03	1.34E-03	3.27E-02	8.00E+00	4.09E-03	8.00E+01	4.09E-04
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	4.31E-09	0.00E+00	8.04E-07	1.72E-07	1.36E-06	2.40E-01	5.67E-06	2.40E+00	5.67E-07
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	8.59E-02	mg/kg	1.00E+00		7.50E-01	5.60E+00	NA	1.14E+00	1.14E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.54E-05	0.00E+00	0.00E+00	9.23E-05	NA	7.50E-05	0.00E+00	3.52E-05	7.54E-06	2.26E-04	1.00E+00	2.26E-04	3.00E+00	7.52E-05
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	2.50E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.28E-08	0.00E+00	0.00E+00	4.28E-07	0.00E+00	6.29E-10	0.00E+00	9.36E-07	2.01E-07	1.61E-06	7.00E-02	2.30E-05	7.00E-01	2.30E-06
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.73E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.51E-02	6.51E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.39E-03	0.00E+00	0.00E+00	1.57E-03	0.00E+00	3.87E-04	0.00E+00	3.01E-03	6.46E-04	7.01E-03	4.00E+01	1.75E-04	8.00E+01	8.76E-05
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	1.00E+00	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.91E-03	0.00E+00	1.80E-04	0.00E+00	0.00E+00	5.77E-05	0.00E+00	1.61E-04	0.00E+00	4.97E-04	1.06E-04	7.91E-03	5.07E+02	1.56E-05	1.13E+03	7.00E-06
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-01	5.07E+02	9.24E-04	1.13E+03	4.15E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.13E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.61E-07	0.00E+00	0.00E+00	5.00E-06	0.00E+00	3.97E-07	0.00E+00	1.23E-05	2.63E-06	2.09E-05	2.10E+00	9.94E-06	6.30E+00	3.31E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.05E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.68E-08	0.00E+00	0.00E+00	3.44E-07	0.00E+00	4.31E-09	0.00E+00	8.04E-07	1.72E-07	1.36E-06	2.40E-01	5.67E-06	2.40E+00	5.67E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.63E-01	mg/kg	1.00E+00			3.00E-01	NA	2.34E+01	2.34E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	9.40E-06	NA	2.94E-03	0.00E+00	8.10E-05	1.74E-05	3.08E-03	8.50E+00	3.62E-04	2.55E+01	1.21E-04
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.94E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	6.25E-05	0.00E+00	1.07E-04	0.00E+00	0.00E+00	1.22E-04	0.00E+00	2.19E-04	0.00E+00	4.02E-04	8.61E-05	9.98E-04	2.00E-01	4.99E-03	3.30E-01	3.02E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.12E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	3.53E-04	0.00E+00	3.41E-03	0.00E+00	1.05E-02	2.25E-03	2.03E-02	2.63E+02	7.72E-05	7.89E+02	2.57E-05
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	2.41E+02	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.64E-01	0.00E+00	4.32E-02	0.00E+00	0.00E+00	1.39E-02	0.00E+00	3.88E-02	0.00E+00	1.19E-01	2.56E-02	9.05E-01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06	7.40E-03	1.27E-03	7.40E-02	1.27E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	2.08E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	6.86E-04	0.00E+00	3.74E-03	0.00E+00	0.00E+00	1.68E-04	0.00E+00	5.76E-05	0.00E+00	5.12E-04	1.10E-04	5.27E-03	2.10E-01	2.51E-02	2.10E+00	2.51E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.15E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	9.42E-01	9.42E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	7.45E-03	0.00E+00	0.00E+00	3.82E-03	0.00E+00	3.00E-02	0.00E+00	3.42E-02	7.34E-03	8.29E-02	1.60E+02	5.18E-04	3.20E+02	2.59E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	5.7E+00	2.8E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.9E-07	1.4E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.1E-05	4.3E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	8.3E-04	8.2E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.9E-04	6.3E-05
Aldrin/Dieldrin/Endrin EEQ:

Table O-193
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-01	0.00E+00	0.00E+00	0.00E+00	5.56E-01	2.68E+00	2.07E-01	1.33E+01	4.18E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-03	0.00E+00	0.00E+00	0.00E+00	9.30E-03	1.13E-01	8.23E-02	2.64E-01	3.52E-02
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	9.16E-10	9.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-09	2.44E-09	2.12E-09	0.00E+00	0.00E+00	1.05E-07	1.00E-06	1.05E-01	1.00E-05	1.05E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+00	2.00E-01	5.76E+00	3.00E-01	3.84E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-02	0.00E+00	0.00E+00	0.00E+00	2.50E-02	2.00E-01	1.25E-01	1.50E+00	1.67E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-02	0.00E+00	0.00E+00	0.00E+00	4.17E-02	2.00E-01	2.09E-01	6.00E-01	6.95E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-07	0.00E+00	0.00E+00	0.00E+00	3.61E-07	8.00E-01	4.51E-07	4.00E+00	9.02E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	9.36E-06	8.00E-01	1.17E-05	4.00E+00	2.34E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-07	0.00E+00	0.00E+00	0.00E+00	1.67E-07	8.00E-01	2.09E-07	4.00E+00	4.18E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-08	0.00E+00	0.00E+00	0.00E+00	8.57E-08	4.58E+00	1.87E-08	9.16E+00	9.36E-09
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.97E+00	7.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-01	1.52E-01	7.81E-01	0.00E+00	0.00E+00	7.46E+01	1.93E+00	3.86E+01	1.93E+01	3.86E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-03	0.00E+00	0.00E+00	0.00E+00	1.32E-03	1.25E-01	1.05E-02	1.25E+00	1.05E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06	0.00E+00	0.00E+00	0.00E+00	4.00E-06	6.85E-02	5.84E-05	6.85E-01	5.84E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-07	0.00E+00	0.00E+00	0.00E+00	3.87E-07	6.80E-02	5.70E-06	6.80E-01	5.70E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-08	0.00E+00	0.00E+00	0.00E+00	8.86E-08	6.80E-02	1.30E-06	6.80E-01	1.30E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.98E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E+00	5.41E+00	6.90E+00	0.00E+00	0.00E+00	2.12E+01	5.10E+00	4.16E+00	1.98E+01	1.07E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	1.46E-05	0.00E+00	0.00E+00	1.97E-03	1.83E+01	1.08E-04	1.83E+02	1.08E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	1.33E+00	9.22E-01	9.22E-01	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03	3.17E-03	8.02E-03	0.00E+00	0.00E+00	2.05E-02	1.00E+00	2.05E-02	1.00E+01	2.05E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-02	0.00E+00	0.00E+00	0.00E+00	5.70E-02	2.74E+03	2.08E-05	2.74E+04	2.08E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-04	0.00E+00	0.00E+00	0.00E+00	2.02E-03	3.28E+00	6.16E-04	1.31E+01	1.54E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	5.59E-01	1.49E-01	1.49E-01	0.00E+00	1.64E-03	5.36E-02	0.00E+00	0.00E+00	0.00E+00	1.44E-01	3.98E-02	1.44E-01	0.00E+00	0.00E+00	3.82E-01	1.17E+01	3.27E-02	1.51E+01	2.52E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-07	0.00E+00	0.00E+00	0.00E+00	1.23E-07	9.20E-02	1.34E-06	9.20E-01	1.34E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	2.90E-05	8.00E-02	3.63E-04	2.90E-01	1.00E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-02	0.00E+00	0.00E+00	0.00E+00	8.76E-02	1.00E+00	8.76E-02	5.00E+00	1.75E-02
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.83E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-01	0.00E+00	0.00E+00	0.00E+00	3.20E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	7.03E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.53E-02	NA	0.00E+00	0.00E+00	3.60E-02	8.00E+00	4.50E-03	8.00E+01	4.50E-04
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.10E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-02	8.80E+01	1.03E-03	2.84E+02	3.20E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	8.18E-04	NA	0.00E+00	0.00E+00	8.18E-04	1.32E+01	6.20E-05	3.96E+01	2.07E-05
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	1.16E+00			0.00E+00	5.71E-04	0.00E+00	0.00E+00	0.00E+00	NA	3.16E-03	NA	3.16E-03	0.00E+00	0.00E+00	6.90E-03	3.20E-02	2.16E-01	1.60E-01	4.31E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-08	0.00E+00	0.00E+00	0.00E+00	8.87E-08	7.00E-02	1.27E-06	7.00E-01	1.27E-07
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	5.96E-02	1.01E-01	1.01E-01	0.00E+00	7.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-02	3.60E-03	2.16E-02	0.00E+00	0.00E+00	1.23E-01	4.00E+01	3.07E-03	8.00E+01	1.53E-03
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.24E-02	5.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-03	2.76E-03	8.64E-03	0.00E+00	0.00E+00	9.76E-02	5.07E+02	1.93E-04	1.13E+03	8.64E-05
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E+00	5.07E+02	1.12E-02	1.13E+03	5.02E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-06	0.00E+00	0.00E+00	0.00E+00	4.86E-06	2.10E+00	2.31E-06	6.30E+00	7.71E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-08	0.00E+00	0.00E+00	0.00E+00	7.31E-08	2.40E-01	3.05E-07	2.40E+00	3.05E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.48E-02	0.00E+00	0.00E+00	0.00E+00	2.48E-02	8.50E+00	2.92E-03	2.55E+01	9.72E-04
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	5.02E-01	1.95E-01	1.95E-01	4.49E-04	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	2.41E-03	1.50E-02	0.00E+00	0.00E+00	3.92E-02	2.00E-01	1.96E-01	3.30E-01	1.19E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.41E-02	0.00E+00	0.00E+00	0.00E+00	8.41E-02	2.63E+02	3.20E-04	7.89E+02	1.07E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.59E+00	5.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-01	2.67E-01	8.68E-01	0.00E+00	0.00E+00	8.11E+00	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							7.33E-05	4.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-03	7.40E-03	5.68E-01	7.40E-02	5.68E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-04	0.00E+00	0.00E+00	0.00E+00	6.63E-03	2.10E-01	3.16E-02	2.10E+00	3.16E-03
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	1.01E+00	4.51E-01	4.51E-01	0.00E+00	2.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E+00	3.60E-01	1.19E+00	0.00E+00	0.00E+00	2.98E+00	1.60E+02	1.86E-02	3.20E+02	9.32E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	6.1E+00	3.9E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.9E-08	9.4E-09
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.2E-05	2.5E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	6.5E-05	6.5E-06
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	1.1E-04	1.1E-05
Aldrin/Dieldrin/Endrin EEQ:	1.

Table O-194
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Muskrat at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
																mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
									----------Unitless----------																						
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-01	0.00E+00	0.00E+00	0.00E+00	2.13E-01	2.68E+00	7.93E-02	1.33E+01	1.60E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-03	0.00E+00	0.00E+00	0.00E+00	4.85E-03	1.13E-01	4.29E-02	2.64E-01	1.84E-02
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	7.77E-10	2.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-10	8.99E-10	5.12E-10	0.00E+00	0.00E+00	3.03E-08	1.00E-06	3.03E-02	1.00E-05	3.03E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-01	0.00E+00	0.00E+00	0.00E+00	2.89E-01	2.00E-01	1.45E+00	3.00E-01	9.64E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-03	0.00E+00	0.00E+00	0.00E+00	8.68E-03	2.00E-01	4.34E-02	1.50E+00	5.79E-03
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	0.00E+00	1.94E-02	2.00E-01	9.71E-02	6.00E-01	3.24E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-08	0.00E+00	0.00E+00	0.00E+00	9.35E-08	8.00E-01	1.17E-07	4.00E+00	2.34E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	0.00E+00	1.47E-06	8.00E-01	1.84E-06	4.00E+00	3.68E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-08	0.00E+00	0.00E+00	0.00E+00	4.07E-08	8.00E-01	5.09E-08	4.00E+00	1.02E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	0.00E+00	0.00E+00	0.00E+00	1.62E-08	4.58E+00	3.54E-09	9.16E+00	1.77E-09
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.09E+00	5.17E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-01	7.65E-02	3.71E-01	0.00E+00	0.00E+00	5.36E+01	1.93E+00	2.78E+01	1.93E+01	2.78E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-04	0.00E+00	0.00E+00	0.00E+00	5.59E-04	1.25E-01	4.48E-03	1.25E+00	4.48E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-07	0.00E+00	0.00E+00	0.00E+00	1.37E-07	6.85E-02	1.99E-06	6.85E-01	1.99E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-07	0.00E+00	0.00E+00	0.00E+00	1.10E-07	6.80E-02	1.62E-06	6.80E-01	1.62E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-09	0.00E+00	0.00E+00	0.00E+00	9.14E-09	6.80E-02	1.34E-07	6.80E-01	1.34E-08
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	1.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E+00	2.85E+00	5.58E+00	0.00E+00	0.00E+00	1.56E+01	5.10E+00	3.06E+00	1.98E+01	7.88E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	1.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06	0.00E+00	4.21E-06	0.00E+00	0.00E+00	1.61E-03	1.83E+01	8.80E-05	1.83E+02	8.81E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	1.33E+00	6.72E-01	6.72E-01	0.00E+00	1.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-03	3.00E-03	8.02E-03	0.00E+00	0.00E+00	2.03E-02	1.00E+00	2.03E-02	1.00E+01	2.03E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03	0.00E+00	0.00E+00	0.00E+00	5.30E-03	2.74E+03	1.94E-06	2.74E+04	1.94E-07
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	9.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-05	0.00E+00	0.00E+00	0.00E+00	1.03E-03	3.28E+00	3.13E-04	1.31E+01	7.82E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	6.06E-01	8.97E-02	8.97E-02	1.15E-03	4.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-01	3.64E-02	1.36E-01	0.00E+00	0.00E+00	3.57E-01	1.17E+01	3.05E-02	1.51E+01	2.36E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-08	0.00E+00	0.00E+00	0.00E+00	6.37E-08	9.20E-02	6.93E-07	9.20E-01	6.93E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	1.77E-05	8.00E-02	2.22E-04	2.90E-01	6.11E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-02	0.00E+00	0.00E+00	0.00E+00	6.35E-02	1.00E+00	6.35E-02	5.00E+00	1.27E-02
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-01	0.00E+00	0.00E+00	0.00E+00	1.90E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	5.50E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	2.99E-02	NA	0.00E+00	0.00E+00	3.04E-02	8.00E+00	3.81E-03	8.00E+01	3.81E-04
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-02	8.80E+01	7.63E-04	2.84E+02	2.36E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	7.36E-04	NA	0.00E+00	0.00E+00	7.36E-04	1.32E+01	5.57E-05	3.96E+01	1.86E-05
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	1.33E+00			0.00E+00	4.22E-04	0.00E+00	0.00E+00	0.00E+00	NA	2.69E-03	NA	2.69E-03	0.00E+00	0.00E+00	5.80E-03	3.20E-02	1.81E-01	1.60E-01	3.62E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-09	0.00E+00	0.00E+00	0.00E+00	6.23E-09	7.00E-02	8.90E-08	7.00E-01	8.90E-09
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.15E-02	8.71E-02	8.71E-02	0.00E+00	6.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-02	3.44E-03	1.97E-02	0.00E+00	0.00E+00	1.10E-01	4.00E+01	2.74E-03	8.00E+01	1.37E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.19E-02	3.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	9.43E-04	3.19E-03	0.00E+00	0.00E+00	5.24E-02	5.07E+02	1.03E-04	1.13E+03	4.64E-05
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								2.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E+00	5.07E+02	5.61E-03	1.13E+03	2.52E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06	0.00E+00	0.00E+00	0.00E+00	3.88E-06	2.10E+00	1.85E-06	6.30E+00	6.17E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-08	0.00E+00	0.00E+00	0.00E+00	4.51E-08	2.40E-01	1.88E-07	2.40E+00	1.88E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.06E-02	0.00E+00	0.00E+00	0.00E+00	2.06E-02	8.50E+00	2.42E-03	2.55E+01	8.08E-04
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.93E-01	1.51E-01	1.51E-01	3.79E-04	5.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-02	2.11E-03	1.25E-02	0.00E+00	0.00E+00	3.27E-02	2.00E-01	1.63E-01	3.30E-01	9.90E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-02	0.00E+00	0.00E+00	0.00E+00	3.77E-02	2.63E+02	1.43E-04	7.89E+02	4.78E-05
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.03E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-01	6.38E-02	3.55E-01	0.00E+00	0.00E+00	5.16E+00	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							5.69E-05	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-03	7.40E-03	4.66E-01	7.40E-02	4.66E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	4.66E-03	2.10E-01	2.22E-02	2.10E+00	2.22E-03
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	1.06E+00	1.84E-01	1.84E-01	0.00E+00	2.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	3.16E-01	1.11E+00	0.00E+00	0.00E+00	2.75E+00	1.60E+02	1.72E-02	3.20E+02	8.58E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.6E+00	1.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	3.5E-09	1.8E-09
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.0E-06	4.0E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	3.8E-06	3.8E-07
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	8.8E-05	8.8E-06

Table O-195
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-02	1.51E-02	2.68E+00	5.63E-03	1.33E+01	1.13E-03
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-04	4.24E-04	1.13E-01	3.75E-03	2.64E-01	1.61E-03
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	4.98E-10	5.68E-09	0.00E+00	4.47E-05	4.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-09	4.52E-05	1.00E-06	4.52E+01	1.00E-05	4.52E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-01	8.76E-01	2.00E-01	4.38E+00	3.00E-01	2.92E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	2.19E-03	2.00E-01	1.10E-02	1.50E+00	1.46E-03
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-03	4.29E-03	2.00E-01	2.14E-02	6.00E-01	7.14E-03
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-06	1.10E-06	8.00E-01	1.37E-06	4.00E+00	2.74E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06	3.17E-06	8.00E-01	3.96E-06	4.00E+00	7.91E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-07	7.34E-07	8.00E-01	9.17E-07	4.00E+00	1.83E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-07	5.17E-07	4.58E+00	1.13E-07	9.16E+00	5.64E-08
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.07E+00	4.14E+00	0.00E+00	2.43E+00	7.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-01	7.94E+01	1.93E+00	4.11E+01	1.93E+01	4.11E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	6.60E-04	1.25E-01	5.28E-03	1.25E+00	5.28E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06	5.96E-06	6.85E-02	8.70E-05	6.85E-01	8.70E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06	9.81E-06	6.80E-02	1.44E-04	6.90E-01	1.42E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-06	7.89E-06	6.80E-02	1.16E-04	6.90E-01	1.14E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	1.15E-01	0.00E+00	0.00E+00	2.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-02	2.16E+00	5.10E+00	4.24E-01	1.98E+01	1.09E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	9.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-03	1.83E+01	5.27E-04	1.83E+02	5.28E-05
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	7.36E-05	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-04	3.08E-03	1.00E+00	3.08E-03	1.00E+01	3.08E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	6.69E-04	0.00E+00	0.00E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-03	3.62E-01	2.74E+03	1.32E-04	2.74E+04	1.32E-05
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	6.69E-04	0.00E+00	0.00E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	3.54E-01	3.28E+00	1.08E-01	1.31E+01	2.69E-02
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	8.92E-04	3.13E-03	0.00E+00	2.78E+00	6.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03	2.85E+00	1.17E+01	2.44E-01	1.51E+01	1.89E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	2.00E-02	2.00E-01	0.00E+00	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-07	8.26E-07	9.20E-02	8.98E-06	9.20E-01	8.98E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-04	3.74E-04	8.00E-02	4.67E-03	2.90E-01	1.29E-03
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03	2.54E-03	1.00E+00	2.54E-03	5.00E+00	5.08E-04
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.54E+00	0.00E+00	0.00E+00	8.11E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-02	8.12E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	3.82E-04	0.00E+00	0.00E+00	3.03E-01	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.67E-03	3.07E-01	8.00E+00	3.83E-02	8.00E+01	3.83E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	4.95E-02	0.00E+00	0.00E+00	5.22E+01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E+01	8.80E+01	5.94E-01	2.84E+02	1.84E-01
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.75E-05	1.75E-05	1.00E+00	1.75E-05	3.00E+00	5.83E-06
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	3.34E-05	0.00E+00	0.00E+00	9.62E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.30E-04	1.50E-02	8.64E-03	2.50E-02	5.18E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-07	6.27E-07	7.00E-02	8.96E-06	7.00E-01	8.96E-07
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	4.42E-03	0.00E+00	0.00E+00	3.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-03	4.51E-02	4.00E+01	1.13E-03	8.00E+01	5.63E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.94E-02	3.01E-04	0.00E+00	2.22E+01	2.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	2.22E+01	5.07E+02	4.38E-02	1.13E+03	1.97E-02
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								3.08E+00	0.00E+00	0.00E+00	1.74E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E+03	5.07E+02	3.43E+00	1.13E+03	1.54E+00
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06	6.26E-06	2.10E+00	2.98E-06	6.30E+00	9.94E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-07	5.31E-07	2.40E-01	2.21E-06	2.40E+00	2.21E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.40E-05	3.40E-05	8.50E+00	4.00E-06	2.55E+01	1.33E-06
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	2.44E-04	3.65E-04	0.00E+00	2.64E-02	6.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	3.35E-02	2.00E-01	1.68E-01	3.30E-01	1.02E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-03	8.43E-03	2.63E+02	3.21E-05	7.89E+02	1.07E-05
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.04E+00	3.02E-02	0.00E+00	1.71E+03	2.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-02	1.72E+03	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							3.98E-05	2.41E-04	0.00E+00	3.34E-01	4.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-01	7.40E-03	4.58E+01	7.40E-02	4.58E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.26E-03	0.00E+00	0.00E+00	1.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	1.84E+00	2.10E-01	8.77E+00	2.10E+00	8.77E-01
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	1.44E-02	0.00E+00	0.00E+00	4.17E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-02	4.75E-01	1.60E+02	2.97E-03	3.20E+02	1.48E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	4.4E+00	2.9E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	1.1E-07	5.6E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	6.2E-06	1.2E-06
**Aroclors (Aroclor 1

Table O-196
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the River Otter at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-03	5.16E-03	2.68E+00	1.93E-03	1.33E+01	3.88E-04
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	1.49E-04	1.13E-01	1.32E-03	2.64E-01	5.66E-04
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	3.12E-10	1.19E-09	0.00E+00	3.80E-06	2.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-09	3.82E-06	1.00E-06	3.82E+00	1.00E-05	3.82E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-01	2.47E-01	2.00E-01	1.24E+00	3.00E-01	8.25E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	5.56E-04	2.00E-01	2.78E-03	1.50E+00	3.71E-04
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	1.24E-03	2.00E-01	6.22E-03	6.00E-01	2.07E-03
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-07	4.56E-07	8.00E-01	5.70E-07	4.00E+00	1.14E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-06	1.59E-06	8.00E-01	1.98E-06	4.00E+00	3.97E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-07	2.01E-07	8.00E-01	2.51E-07	4.00E+00	5.02E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-07	2.37E-07	4.58E+00	5.17E-08	9.16E+00	2.59E-08
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	4.37E-01	2.23E+00	0.00E+00	9.92E-01	3.85E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-02	4.22E+01	1.93E+00	2.19E+01	1.93E+01	2.19E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	2.61E-04	1.25E-01	2.09E-03	1.25E+00	2.09E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-06	2.22E-06	6.85E-02	3.25E-05	6.85E-01	3.25E-06
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-06	2.39E-06	6.80E-02	3.52E-05	6.90E-01	3.47E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-06	3.70E-06	6.80E-02	5.44E-05	6.90E-01	5.36E-06
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.90E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	6.87E-02	0.00E+00	0.00E+00	1.19E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	1.27E+00	5.10E+00	2.49E-01	1.98E+01	6.42E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	6.91E-05	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	1.83E+01	7.14E-05	1.83E+02	7.16E-06
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	5.43E-05	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	5.42E-04	1.00E+00	5.42E-04	1.00E+01	5.42E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	3.87E-04	0.00E+00	0.00E+00	7.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-03	7.54E-02	2.74E+03	2.75E-05	2.74E+04	2.75E-06
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	3.87E-04	0.00E+00	0.00E+00	7.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	7.40E-02	3.28E+00	2.26E-02	1.31E+01	5.63E-03
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	4.62E-04	2.02E-03	0.00E+00	2.71E-01	1.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-03	2.87E-01	1.17E+01	2.45E-02	1.51E+01	1.89E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	3.17E-04	mg/kg	0.00E+00	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-07	4.39E-07	9.20E-02	4.78E-06	9.20E-01	4.78E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	1.52E-04	8.00E-02	1.90E-03	2.90E-01	5.25E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	1.03E-03	1.00E+00	1.03E-03	5.00E+00	2.07E-04
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	6.29E-01	0.00E+00	0.00E+00	8.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-02	8.36E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	2.20E-04	0.00E+00	0.00E+00	5.21E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.76E-03	5.41E-02	8.00E+00	6.76E-03	8.00E+01	6.76E-04
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	2.69E-02	0.00E+00	0.00E+00	3.55E+00	0.00E+00	NA	0.00E+00	7.90E-02	0.00E+00	0.00E+00	0.00E+00	3.58E+00	8.80E+01	4.07E-02	2.84E+02	1.26E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	9.42E-06	9.42E-06	1.00E+00	9.42E-06	3.00E+00	3.14E-06
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.82E-05	0.00E+00	0.00E+00	5.25E-05	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	7.06E-05	1.50E-02	4.71E-03	2.50E-02	2.83E-03	
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-07	2.47E-07	7.00E-02	3.53E-06	7.00E-01	3.53E-07
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	2.88E-03	0.00E+00	0.00E+00	5.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-04	8.96E-03	4.00E+01	2.24E-04	8.00E+01	1.12E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.68E-02	1.37E-04	0.00E+00	2.67E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	2.69E+00	5.07E+02	5.30E-03	1.13E+03	2.38E-03
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								1.14E+00	0.00E+00	0.00E+00	1.81E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E+02	5.07E+02	3.59E-01	1.13E+03	1.61E-01	
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06	3.21E-06	2.10E+00	1.53E-06	6.30E+00	5.09E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-07	2.25E-07	2.40E-01	9.36E-07	2.40E+00	9.36E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.22E-05	1.22E-05	8.50E+00	1.44E-06	2.55E+01	4.79E-07
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	1.52E-04	2.27E-04	0.00E+00	1.64E-02	3.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	2.09E-02	2.00E-01	1.04E-01	3.30E-01	6.32E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-03	3.10E-03	2.63E+02	1.18E-05	7.89E+02	3.93E-06
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.62E+00	1.52E-02	0.00E+00	2.56E+02	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-03	2.58E+02	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							2.28E-05	1.46E-04	0.00E+00	9.03E-04	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03	7.40E-03	4.86E-01	7.40E-02	4.86E-02	
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.67E-03	0.00E+00	0.00E+00	2.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	2.67E-01	2.10E-01	1.27E+00	2.10E+00	1.27E-01
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	9.37E-03	0.00E+00	0.00E+00	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	8.94E-02	1.60E+02	5.59E-04	3.20E+02	2.80E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.2E+00	8.3E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	5.2E-08	2.6E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.8E-06	5.6E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.2E-04	1.2E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	7.1E-05

Table O-197
BERA Tier 1 COPCs
EEQs and Hazard Indices for the Townsend's Big-Eared Bat at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	0.00E+00	0.00E+00	0.00E+00	2.10E+00	2.68E+00	7.85E-01	1.33E+01	1.58E-01
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-02	0.00E+00	0.00E+00	0.00E+00	3.52E-02	1.13E-01	3.12E-01	2.64E-01	1.33E-01
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	5.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-09	0.00E+00	0.00E+00	0.00E+00	9.81E-09	1.00E-06	9.81E-03	1.00E-05	9.81E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+00	2.00E-01	2.18E+01	3.00E-01	1.45E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-02	0.00E+00	0.00E+00	0.00E+00	9.48E-02	2.00E-01	4.74E-01	1.50E+00	6.32E-02
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-01	0.00E+00	0.00E+00	0.00E+00	1.58E-01	2.00E-01	7.90E-01	6.00E-01	2.63E-01
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-06	0.00E+00	0.00E+00	0.00E+00	1.37E-06	8.00E-01	1.71E-06	4.00E+00	3.42E-07
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-05	0.00E+00	0.00E+00	0.00E+00	3.54E-05	8.00E-01	4.43E-05	4.00E+00	8.86E-06
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-07	0.00E+00	0.00E+00	0.00E+00	6.34E-07	8.00E-01	7.92E-07	4.00E+00	1.58E-07
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-07	0.00E+00	0.00E+00	0.00E+00	3.24E-07	4.58E+00	7.08E-08	9.16E+00	3.54E-08
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	1.19E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-01	0.00E+00	0.00E+00	0.00E+00	1.77E+00	1.93E+00	9.15E-01	1.93E+01	9.15E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-03	0.00E+00	0.00E+00	0.00E+00	4.99E-03	1.25E-01	3.99E-02	1.25E+00	3.99E-03
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-05	0.00E+00	0.00E+00	0.00E+00	1.51E-05	6.85E-02	2.21E-04	6.85E-01	2.21E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-06	0.00E+00	0.00E+00	0.00E+00	1.47E-06	6.80E-02	2.16E-05	6.80E-01	2.16E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-07	0.00E+00	0.00E+00	0.00E+00	3.35E-07	6.80E-02	4.93E-06	6.80E-01	4.93E-07
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E+01	0.00E+00	0.00E+00	0.00E+00	2.05E+01	5.10E+00	4.02E+00	1.98E+01	1.03E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	1.20E-02	1.00E+00	1.20E-02	1.00E+01	1.20E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-01	0.00E+00	0.00E+00	0.00E+00	2.12E-01	2.74E+03	7.74E-05	2.74E+04	7.74E-06
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	7.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	0.00E+00	0.00E+00	0.00E+00	3.74E-03	3.28E+00	1.14E-03	1.31E+01	2.85E-04
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-01	0.00E+00	0.00E+00	0.00E+00	1.52E-01	1.17E+01	1.30E-02	1.51E+01	1.00E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-07	0.00E+00	0.00E+00	0.00E+00	4.65E-07	9.20E-02	5.06E-06	9.20E-01	5.06E-07
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	1.10E-04	8.00E-02	1.37E-03	2.90E-01	3.79E-04
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-01	0.00E+00	0.00E+00	0.00E+00	3.32E-01	1.00E+00	3.32E-01	5.00E+00	6.63E-02
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	1.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E+00	0.00E+00	0.00E+00	0.00E+00	3.13E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	4.24E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	1.34E-01	0.00E+00	0.00E+00	0.00E+00	1.34E-01	8.00E+00	1.68E-02	8.00E+01	1.68E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	5.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-02	8.80E+01	6.24E-04	2.84E+02	1.93E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	9.38E-02	0.00E+00	0.00E+00	3.10E-03	1.32E+01	2.35E-04	3.96E+01	7.82E-05
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-07	0.00E+00	0.00E+00	0.00E+00	3.36E-07	7.00E-02	4.80E-06	7.00E-01	4.80E-07
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-02	0.00E+00	0.00E+00	0.00E+00	1.36E-02	4.00E+01	3.41E-04	8.00E+01	1.71E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	4.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	5.41E-02	5.07E+02	1.07E-04	1.13E+03	4.79E-05
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								3.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E+00	5.07E+02	6.75E-03	1.13E+03	3.03E-03
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	1.84E-05	2.10E+00	8.76E-06	6.30E+00	2.92E-06
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-07	0.00E+00	0.00E+00	0.00E+00	2.77E-07	2.40E-01	1.15E-06	2.40E+00	1.15E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	9.38E-02	0.00E+00	0.00E+00	0.00E+00	9.38E-02	8.50E+00	1.10E-02	2.55E+01	3.68E-03
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-03	0.00E+00	0.00E+00	0.00E+00	9.41E-03	2.00E-01	4.71E-02	3.30E-01	2.85E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-01	0.00E+00	0.00E+00	0.00E+00	3.19E-01	2.63E+02	1.21E-03	7.89E+02	4.04E-04
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	3.37E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	4.38E+00	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-05	7.40E-03	5.98E-03	7.40E-02	5.98E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	0.00E+00	0.00E+00	0.00E+00	6.00E-03	2.10E-01	2.86E-02	2.10E+00	2.86E-03
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+00	1.60E+02	8.53E-03	3.20E+02	4.27E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.3E+01	1.5E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ	7.1E-08	3.5E-08
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	4.7E-05	9.4E-06
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.5E-04	2.5E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
**Aldrin/Dieldrin

Table O-198
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Townsend's Big-Eared Bat at the Longhorn Army Ammunition Plant
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	EEQ N	LOAEL	EEQ L
							---Unitless---									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d		mg/kg-d	
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-01	0.00E+00	0.00E+00	0.00E+00	2.68E-01	2.68E+00	1.00E-01	1.33E+01	2.02E-02
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-03	0.00E+00	0.00E+00	0.00E+00	6.11E-03	1.13E-01	5.41E-02	2.64E-01	2.32E-02
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.56E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-09	0.00E+00	0.00E+00	0.00E+00	1.29E-09	1.00E-06	1.29E-03	1.00E-05	1.29E-04
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-01	0.00E+00	0.00E+00	0.00E+00	3.65E-01	2.00E-01	1.82E+00	3.00E-01	1.22E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	0.00E+00	1.10E-02	2.00E-01	5.48E-02	1.50E+00	7.30E-03
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	0.00E+00	0.00E+00	2.45E-02	2.00E-01	1.23E-01	6.00E-01	4.08E-02
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-07	0.00E+00	0.00E+00	0.00E+00	1.18E-07	8.00E-01	1.48E-07	4.00E+00	2.95E-08
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-06	0.00E+00	0.00E+00	0.00E+00	1.86E-06	8.00E-01	2.32E-06	4.00E+00	4.65E-07
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-08	0.00E+00	0.00E+00	0.00E+00	5.14E-08	8.00E-01	6.43E-08	4.00E+00	1.29E-08
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	1.00E+00	0.00E+00
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-08	0.00E+00	0.00E+00	0.00E+00	2.04E-08	4.58E+00	4.46E-09	9.16E+00	2.23E-09
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.19E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-02	0.00E+00	0.00E+00	0.00E+00	3.16E-01	1.93E+00	1.64E-01	1.93E+01	1.64E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-04	0.00E+00	0.00E+00	0.00E+00	7.06E-04	1.25E-01	5.65E-03	1.25E+00	5.65E-04
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-07	0.00E+00	0.00E+00	0.00E+00	1.72E-07	6.85E-02	2.52E-06	6.85E-01	2.52E-07
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-07	0.00E+00	0.00E+00	0.00E+00	1.39E-07	6.80E-02	2.05E-06	6.80E-01	2.05E-07
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-08	0.00E+00	0.00E+00	0.00E+00	1.15E-08	6.80E-02	1.70E-07	6.80E-01	1.70E-08
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-02	0.00E+00	6.80E-01	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00	5.10E+00	7.06E-01	1.98E+01	1.82E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+00	0.00E+00	4.00E+01	0.00E+00
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+01	0.00E+00	1.83E+02	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E+01	0.00E+00	4.70E+01	0.00E+00
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-03	0.00E+00	0.00E+00	0.00E+00	3.79E-03	1.00E+00	3.79E-03	1.00E+01	3.79E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03	0.00E+00	0.00E+00	0.00E+00	5.67E-03	2.74E+03	2.07E-06	2.74E+04	2.07E-07
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	2.72E-04	3.28E+00	8.29E-05	1.31E+01	2.07E-05
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-02	0.00E+00	0.00E+00	0.00E+00	4.62E-02	1.17E+01	3.95E-03	1.51E+01	3.05E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	0.00E+00	2.00E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-08	0.00E+00	0.00E+00	0.00E+00	8.04E-08	9.20E-02	8.74E-07	9.20E-01	8.74E-08
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-01	0.00E+00	1.00E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-05	0.00E+00	0.00E+00	0.00E+00	2.24E-05	8.00E-02	2.80E-04	2.90E-01	7.71E-05
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-02	0.00E+00	0.00E+00	0.00E+00	8.01E-02	1.00E+00	8.01E-02	5.00E+00	1.60E-02
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-01	0.00E+00	0.00E+00	0.00E+00	7.29E-01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.11E-04	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	3.77E-02	0.00E+00	0.00E+00	0.00E+00	3.78E-02	8.00E+00	4.73E-03	8.00E+01	4.73E-04
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02	8.80E+01	1.53E-04	2.84E+02	4.76E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	9.29E-04	0.00E+00	0.00E+00	0.00E+00	9.29E-04	1.32E+01	7.03E-05	3.96E+01	2.34E-05
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	3.20E-02	0.00E+00	1.60E-01	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.86E-09	0.00E+00	0.00E+00	0.00E+00	7.86E-09	7.00E-02	1.12E-07	7.00E-01	1.12E-08
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-03	0.00E+00	0.00E+00	0.00E+00	4.35E-03	4.00E+01	1.09E-04	8.00E+01	5.43E-05
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	0.00E+00	0.00E+00	0.00E+00	9.62E-03	5.07E+02	1.90E-05	1.13E+03	8.51E-06
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-01	5.07E+02	1.13E-03	1.13E+03	5.06E-04
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-06	0.00E+00	0.00E+00	0.00E+00	4.90E-06	2.10E+00	2.33E-06	6.30E+00	7.78E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-08	0.00E+00	0.00E+00	0.00E+00	5.69E-08	2.40E-01	2.37E-07	2.40E+00	2.37E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	0.00E+00	2.40E+00	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	2.60E-02	0.00E+00	0.00E+00	0.00E+00	2.60E-02	8.50E+00	3.06E-03	2.55E+01	1.02E-03
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	7.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	2.74E-03	2.00E-01	1.37E-02	3.30E-01	8.31E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	5.70E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-02	0.00E+00	0.00E+00	0.00E+00	4.76E-02	2.63E+02	1.81E-04	7.89E+02	6.04E-05
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-02	0.00E+00	0.00E+00	0.00E+00	8.91E-01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	7.40E-03	1.55E-03	7.40E-02	1.55E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E+00	0.00E+00	9.16E+00	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	8.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-04	0.00E+00	0.00E+00	0.00E+00	1.47E-03	2.10E-01	6.99E-03	2.10E+00	6.99E-04
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-01	0.00E+00	0.00E+00	0.00E+00	3.98E-01	1.60E+02	2.49E-03	3.20E+02	1.24E-03

	EEQ N	EEQ L
Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.0E+00	1.3E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.5E-09	2.2E-09
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.5E-06	5.1E-07
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.7E-06	4.7E-07
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	8.7E-07	8.7E-08

Intake Equation:

$$Ej = \left(\frac{A}{HR}\left[\sum_{i=1}^{m}\left(\frac{IRi\,x\,Cij}{BW}\right)\right]\right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): [n] See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	1	unitless
Aquatic plant diet fraction =	0	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0	unitless
Aq. Invert diet fraction =	0	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0	kg/d
Food ingestion rate =	0.000711	kg/d
Body weight =	0.0095	kg
Home range =	3930	acres
Water intake rate =	0.0015	L/d
Site Area =	486	acres
Area Use Factor (AUF) =	0.1236641	unitless
Exposure Duration (ED) =	1	unitless

Table O-199
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.89E-10	2.24E-09	0.00E+00	2.80E-06	4.91E-08	0.00E+00	7.14E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-06	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.06E-01	1.63E+00	0.00E+00	1.53E-01	7.35E+00	0.00E+00	2.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	4.55E-02	0.00E+00	0.00E+00	2.05E-01	0.00E+00	2.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	9.80E-04	0.00E+00	4.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-03	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	1.33E+00	9.22E-01	9.22E-01	0.00E+00	2.91E-05	0.00E+00	0.00E+00	2.32E-04	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-04	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.58E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.53E-04	0.00E+00	0.00E+00	2.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-02	NA	NA	NA	NA
Chromium (hexavalent)	1.27E-02	mg/L	0.00E+00	mg/kg	2.25E-01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	2.53E-04	0.00E+00	0.00E+00	2.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-02	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	5.59E-01	1.49E-01	1.49E-01	3.38E-04	1.24E-03	0.00E+00	1.75E-01	6.49E-03	0.00E+00	4.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-01	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	5.82E-01	0.00E+00	0.00E+00	5.09E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	NA	1.33E-02	1.33E-02	1.45E-04	0.00E+00	0.00E+00	1.90E-02	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	1.91E-02	NA	NA	NA	NA
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.87E-02	0.00E+00	0.00E+00	3.28E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E+00	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	NA	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	1.16E+00			0.00E+00	1.32E-05	0.00E+00	0.00E+00	9.88E-06	NA	1.07E-04	NA	0.00E+00	0.00E+00	0.00E+00	1.30E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	5.96E-02	1.01E-01	1.01E-01	0.00E+00	1.75E-03	0.00E+00	0.00E+00	4.05E-03	0.00E+00	7.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-03	NA	NA	NA	NA
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.49E-02	1.19E-04	0.00E+00	1.39E+00	2.50E-04	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.17E+00	0.00E+00	0.00E+00	1.09E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	5.02E-01	1.95E-01	1.95E-01	9.25E-05	1.44E-04	0.00E+00	1.66E-03	6.49E-04	0.00E+00	5.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.15E+00	1.19E-02	0.00E+00	1.08E+02	2.51E-02	0.00E+00	2.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+02	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.51E-05	9.52E-05	0.00E+00	2.10E-02	4.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-02	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.24E-03	0.00E+00	0.00E+00	1.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-01	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	1.01E+00	4.51E-01	4.51E-01	0.00E+00	5.68E-03	0.00E+00	0.00E+00	4.28E-02	0.00E+00	4.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	0.5930505	acres
Water intake rate =	0.112	L/d
Site Area =	475	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

Table O-200
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Snapping Turtle at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
	----------Unitless----------															mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.60E-10	6.35E-10	0.00E+00	3.23E-07	2.97E-09	0.00E+00	1.72E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-07	NA	NA	NA	NA
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.24E-01	1.19E+00	0.00E+00	8.43E-02	5.36E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E+00	NA	NA	NA	NA
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	3.68E-02	0.00E+00	0.00E+00	1.66E-01	0.00E+00	1.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-01	NA	NA	NA	NA
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	3.69E-05	0.00E+00	0.00E+00	1.73E-04	0.00E+00	1.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	NA	NA	NA	NA
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	1.33E+00	6.72E-01	6.72E-01	0.00E+00	2.91E-05	0.00E+00	0.00E+00	1.75E-05	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	NA	NA	NA	NA
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.44E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.99E-04	0.00E+00	0.00E+00	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03	NA	NA	NA	NA
Chromium (hexavalent)	9.95E-03	mg/L	0.00E+00	mg/kg	2.05E-01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.99E-04	0.00E+00	0.00E+00	6.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-03	NA	NA	NA	NA
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	6.06E-01	8.97E-02	8.97E-02	2.37E-04	1.08E-03	0.00E+00	2.31E-02	1.69E-03	0.00E+00	4.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-02	NA	NA	NA	NA
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Endrin	0.00E+00	mg/L	3.17E-04	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.23E-01	0.00E+00	0.00E+00	7.05E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	NA	1.16E-02	1.16E-02	1.13E-04	0.00E+00	0.00E+00	4.43E-03	NA	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	4.55E-03	NA	NA	NA	NA
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.38E-02	0.00E+00	0.00E+00	3.02E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-01	NA	NA	NA	NA
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	NA	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	1.33E+00			0.00E+00	9.72E-06	0.00E+00	0.00E+00	7.30E-06	NA	9.06E-05	NA	0.00E+00	0.00E+00	0.00E+00	1.08E-04	NA	NA	NA	NA
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.15E-02	8.71E-02	8.71E-02	0.00E+00	1.54E-03	0.00E+00	0.00E+00	7.49E-04	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-03	NA	NA	NA	NA
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.63E-03	7.30E-05	0.00E+00	2.27E-01	3.07E-05	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-01	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								5.86E-01	0.00E+00	0.00E+00	1.54E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.93E-01	1.51E-01	1.51E-01	7.81E-05	1.21E-04	0.00E+00	1.40E-03	5.47E-04	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	NA	NA	NA	NA
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	8.30E-01	8.14E-03	0.00E+00	2.18E+01	3.42E-03	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.17E-05	7.81E-05	0.00E+00	7.68E-05	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-04	NA	NA	NA	NA
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	8.57E-04	0.00E+00	0.00E+00	2.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-02	NA	NA	NA	NA
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	1.06E+00	1.84E-01	1.84E-01	0.00E+00	5.01E-03	0.00E+00	0.00E+00	9.71E-03	0.00E+00	3.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-02	NA	NA	NA	NA

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)
Some BAF (or BCF) values based on media regression equations (value in box): n See appropriate text tables for equations.
If BAF/BCF regression equation produced Tier 2 value exceeding maximum Tier 1 BAF/BCF value, Tier 1 value used a default.
LOAEL and NOAEL values from appropriate toxicity summary tables in the text.
UF = Uncertainty Factor for toxicity factor extrapolation, and Adjusted LOAEL or NOAEL = LOAEL/UF or NOAEL/UF
A "0" entry in the exposure concentration column indicates this chemical not selected as a COPEC for this medium.
Receptor diet data and home range data from appropriate text table.
Exposure point concentrations (EPCs) from appropriate text tables.

Species-Specific Factors

Terrestrial plant diet fraction =	0	unitless
Aquatic plant diet fraction =	0.35	unitless
Plant root diet fraction =	0	unitless
Fish diet fraction =	0.55	unitless
Aq. Invert diet fraction =	0.05	unitless
Terr. Invert diet fraction =	0	unitless
Mammal diet fraction =	0	unitless
Bird diet fraction =	0	unitless
Soil ingestion rate =	0	kg/d
Sediment ingestion rate =	0.0008891	kg/d
Food ingestion rate =	0.0178	kg/d
Body weight =	5.6	kg
Home range =	11.21854	acres
Water intake rate =	0.112	L/d
Site Area =	475	acres
Area Use Factor (AUF) =	1	unitless
Exposure Duration (ED) =	1	unitless

MARC No. W912QR-04-D-0027, TO No. DS02
Longhorn Army Ammunition Plant, Karnack, Texas

Page 1 of 1

Shaw Project No. 117591
11/8/2007

Table O-201
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
	----------Unitless----------															mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-02	4.22E-01	3.50E-02	1.27E+00	1.17E-02
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.26E-09	3.32E-08	0.00E+00	0.00E+00	1.31E-05	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	1.40E-05	1.49E+00	1.40E-04	1.49E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-01	7.00E-02	1.19E+01	1.80E+00	4.64E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-03	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	2.80E-03	1.61E-02	2.80E-02	1.61E-03
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	5.80E-02	2.62E-03	5.80E-01	2.62E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-05	2.80E-03	7.75E-03	2.80E-02	7.75E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-05	2.14E+00	1.01E-05	1.07E+01	2.02E-06
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	4.87E+00	2.42E+01	0.00E+00	0.00E+00	1.97E+03	5.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+03	1.10E+02	1.83E+01	3.29E+02	6.08E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-02	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	4.10E-01	6.09E-04	1.23E+00	2.03E-04
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	1.80E-01	2.54E-03	1.80E+00	2.54E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	1.80E-01	1.19E-03	1.80E+00	1.19E-04
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	6.74E-01	0.00E+00	0.00E+00	5.48E+01	5.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E+01	2.08E+01	2.67E+00	4.17E+01	1.33E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	6.63E-04	0.00E+00	0.00E+00	2.62E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-01	1.11E+00	2.37E-01	3.33E+00	7.90E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	4.31E-04	0.00E+00	0.00E+00	6.22E-02	5.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-02	1.45E+00	4.71E-02	2.00E+01	3.42E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03	1.00E+00	4.48E-03	5.00E+00	8.96E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	4.05E-03	1.83E-02	0.00E+00	0.00E+00	1.74E+00	5.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+00	4.70E+01	3.86E-02	6.17E+01	2.94E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	3.00E-01	1.05E-04	9.00E-01	3.52E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-02	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-02	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	6.98E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	1.74E-03	0.00E+00	0.00E+00	0.00E+00	NA	1.56E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-02	1.13E+00	1.53E-02	1.13E+01	1.53E-03
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-01	9.77E+02	2.30E-04	9.77E+03	2.30E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	4.50E-01	5.48E-03	9.00E-01	2.74E-03
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	1.95E-04	0.00E+00	0.00E+00	2.64E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.84E-03	6.40E-03	4.44E-01	6.40E-02	4.44E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	2.59E-02	0.00E+00	0.00E+00	1.08E+00	1.67E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+00	7.74E+01	1.65E-02	1.07E+02	1.19E-02
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.79E-01	1.76E-03	0.00E+00	0.00E+00	6.68E-02	5.79E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.40E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	1.07E+02	2.24E-06	3.20E+02	7.48E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-05	6.73E+00	3.18E-06	6.73E+01	3.18E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-04	6.50E+01	1.09E-05	1.30E+02	5.47E-06
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	1.11E-03	2.14E-03	0.00E+00	0.00E+00	1.74E-01	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	1.80E+00	1.00E-01	5.40E+00	3.34E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-02	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.38E+01	1.77E-01	0.00E+00	0.00E+00	6.71E+00	5.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							1.81E-04	1.41E-03	0.00E+00	0.00E+00	1.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-01	3.50E-01	3.32E-01	1.05E+00	1.11E-01
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.48E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-02	1.14E+01	2.08E-03	3.42E+01	6.94E-04
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	8.42E-02	0.00E+00	0.00E+00	1.15E+01	1.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E+01	1.45E+01	8.05E-01	1.31E+02	8.92E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	1.2E+01		4.6E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.0E-05		2.0E-06
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.6E-02		2.6E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.3E-03		5.8E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	2.4E-01		7.9E-02
Aldrin/Dieldrin/Endrin EEQ:	1.1E-04		3.5E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables

Table O-202
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Bank Swallow at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-03	4.22E-01	1.27E-02	1.27E+00	4.23E-03
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.92E-09	9.42E-09	0.00E+00	0.00E+00	7.95E-07	1.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06	1.40E-05	1.75E-01	1.40E-04	1.75E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-01	7.00E-02	6.01E+00	1.80E+00	2.34E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-03	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-05	2.80E-03	6.88E-03	2.80E-02	6.88E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	5.80E-02	1.08E-03	5.80E-01	1.08E-04
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	2.80E-03	3.11E-03	2.80E-02	3.11E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	2.14E+00	4.75E-06	1.07E+01	9.50E-07
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	2.69E+00	1.77E+01	0.00E+00	0.00E+00	1.44E+03	1.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E+03	1.10E+02	1.33E+01	3.29E+02	4.43E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	4.10E-01	2.34E-04	1.23E+00	7.78E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	1.80E-01	1.03E-03	1.80E+00	1.03E-04
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	1.80E-01	5.00E-04	1.80E+00	5.00E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	5.45E-01	0.00E+00	0.00E+00	4.43E+01	3.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E+01	2.08E+01	2.16E+00	4.17E+01	1.08E+00
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	5.48E-04	0.00E+00	0.00E+00	4.62E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-02	1.11E+00	4.21E-02	3.33E+00	1.40E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	4.31E-04	0.00E+00	0.00E+00	4.67E-03	5.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	1.45E+00	7.31E-03	2.00E+01	5.30E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03	1.00E+00	3.70E-03	5.00E+00	7.40E-04
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	2.85E-03	1.60E-02	0.00E+00	0.00E+00	4.52E-01	5.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-01	4.70E+01	1.11E-02	6.17E+01	8.46E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	3.00E-01	4.40E-05	9.00E-01	1.47E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-03	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.58E-02	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	3.87E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.77E+00	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.36E-03	0.00E+00	0.00E+00	0.00E+00	NA	1.15E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-02	1.13E+00	1.14E-02	1.13E+01	1.14E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-01	9.77E+02	1.70E-04	9.77E+03	1.70E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	4.50E-01	5.13E-03	9.00E-01	2.57E-03
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.44E-04	0.00E+00	0.00E+00	1.95E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	2.10E-03	6.40E-03	3.28E-01	6.40E-02	3.28E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-05	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	2.28E-02	0.00E+00	0.00E+00	2.01E-01	3.53E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-01	7.74E+01	3.34E-03	1.07E+02	2.42E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.03E-01	1.08E-03	0.00E+00	0.00E+00	8.21E-03	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-01	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								7.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	1.07E+02	1.18E-06	3.20E+02	3.94E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	6.73E+00	1.38E-06	6.73E+01	1.38E-07
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	6.50E-01	2.11E-06	1.30E+02	1.05E-06
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	9.36E-04	1.80E-03	0.00E+00	0.00E+00	1.46E-01	3.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-01	1.80E+00	8.45E-02	5.40E+00	2.82E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	9.94E+00	1.21E-01	0.00E+00	0.00E+00	9.16E-01	5.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.40E-04	1.16E-03	0.00E+00	0.00E+00	9.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-02	3.50E-01	2.73E-01	1.05E+00	9.09E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02	1.14E+01	1.23E-03	3.42E+01	4.10E-04
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	7.43E-02	0.00E+00	0.00E+00	2.60E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E+00	1.45E+01	1.92E-01	1.31E+02	2.12E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	6.0E+00		2.3E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	4.8E-06		9.5E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.1E-02		1.1E-03
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.8E-03		2.3E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.2E-02		1.4E-02
Aldrin/Dieldrin/Endrin EEQ:	4.4E-05		1.5E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text

Table O-203
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E+01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	3.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-01	4.22E-01	9.22E-01	1.27E+00	3.07E-01
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	9.44E-10	0.00E+00	9.41E-07	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	1.40E-05	1.44E+01	1.40E-04	1.44E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.30E+00	0.00E+00	0.00E+00	2.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E+01	7.00E-02	4.02E+02	1.80E+00	1.56E+01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.58E-02	0.00E+00	0.00E+00	9.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-02	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.09E-02	0.00E+00	0.00E+00	1.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-01	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.90E-06	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-03	2.80E-03	4.23E-01	2.80E-02	4.23E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	2.64E-05	0.00E+00	0.00E+00	3.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	5.80E-02	6.88E-02	5.80E-01	6.88E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	3.66E-06	0.00E+00	0.00E+00	5.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-04	2.80E-03	2.04E-01	2.80E-02	2.04E-02
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.72E-06	0.00E+00	0.00E+00	5.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-04	2.14E+00	2.65E-04	1.07E+01	5.30E-05
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.03E+00	0.00E+00	1.16E+02	0.00E+00	0.00E+00	1.31E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E+02	1.10E+02	2.27E+00	3.29E+02	7.57E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	3.29E-02	0.00E+00	0.00E+00	3.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.29E-05	0.00E+00	0.00E+00	6.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-03	4.10E-01	1.60E-02	1.23E+00	5.34E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-02	1.80E-01	6.68E-02	1.80E+00	6.68E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	5.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-03	1.80E-01	3.12E-02	1.80E+00	3.12E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	1.30E-01	0.00E+00	0.00E+00	1.35E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+01	2.08E+01	6.89E-01	4.17E+01	3.44E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	6.68E-03	0.00E+00	0.00E+00	1.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-01	1.45E+00	1.07E-01	2.00E+01	7.75E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.27E-03	0.00E+00	2.06E-01	0.00E+00	0.00E+00	3.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-01	1.00E+00	2.45E-01	5.00E+00	4.90E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	1.69E-03	0.00E+00	1.76E-01	0.00E+00	0.00E+00	1.40E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+00	4.70E+01	3.35E-02	6.17E+01	2.55E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	5.63E-06	0.00E+00	0.00E+00	8.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-04	3.00E-01	2.77E-03	9.00E-01	9.24E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	4.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-01	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.83E-02	0.00E+00	0.00E+00	2.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	2.91E+00	0.00E+00	1.64E+02	0.00E+00	0.00E+00	1.23E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	7.24E-04	0.00E+00	2.29E+00	0.00E+00	NA	4.07E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+00	1.13E+00	2.38E+00	1.13E+01	2.38E-01
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	9.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-02	9.77E+02	9.59E-05	9.77E+03	9.59E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	1.41E-03	0.00E+00	0.00E+00	6.43E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-02	4.50E-01	1.46E-01	9.00E-01	7.30E-02
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	9.61E-02	0.00E+00	0.00E+00	4.37E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E+00	7.74E+01	5.77E-02	1.07E+02	4.17E-02
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	7.46E-02	0.00E+00	1.38E-02	0.00E+00	0.00E+00	1.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-01	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								5.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	6.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-03	1.07E+02	5.90E-05	3.20E+02	1.97E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.82E-06	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-04	6.73E+00	8.34E-05	6.73E+01	8.34E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.70E-03	0.00E+00	0.00E+00	1.86E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-02	6.50E+01	3.12E-04	1.30E+02	1.56E-04
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	4.63E-04	0.00E+00	8.68E-03	0.00E+00	0.00E+00	8.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-02	1.80E+00	5.28E-02	5.40E+00	1.76E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.21E-01	0.00E+00	0.00E+00	1.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+00	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	5.76E+00	0.00E+00	1.33E+00	0.00E+00	0.00E+00	1.46E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E+01	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	3.50E-01	2.16E-04	1.05E+00	7.19E-05
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.18E-03	0.00E+00	2.75E-01	0.00E+00	0.00E+00	2.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-01	1.14E+01	4.51E-02	3.42E+01	1.50E-02
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	8.01E-01	0.00E+00	0.00E+00	3.70E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E+00	1.45E+01	3.10E-01	1.31E+02	3.43E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	4.0E+02	1.6E+01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	2.7E-04	5.3E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	7.0E-01	7.0E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	1.1E-01	1.5E-02
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.8E-03	9.2E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)

Table O-204
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the American Woodcock at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	6.62E-02	0.00E+00	0.00E+00	4.79E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.92E-03	0.00E+00	0.00E+00	1.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-01	4.22E-01	3.35E-01	1.27E+00	1.12E-01
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	8.00E-10	0.00E+00	4.06E-07	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	1.40E-05	3.10E+00	1.40E-04	3.10E-01
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.17E+00	0.00E+00	0.00E+00	1.10E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E+01	7.00E-02	2.02E+02	1.80E+00	7.86E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.14E-03	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-02	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.60E-02	0.00E+00	0.00E+00	5.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-02	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	2.80E-03	1.82E-01	2.80E-02	1.82E-02
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	1.90E-05	0.00E+00	0.00E+00	1.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-03	5.80E-02	2.86E-02	5.80E-01	2.86E-03
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	2.55E-06	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	2.80E-03	8.20E-02	2.80E-02	8.20E-03
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	2.14E+00	1.25E-04	1.07E+01	2.51E-05
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.12E+00	0.00E+00	8.93E+01	0.00E+00	0.00E+00	3.69E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+02	1.10E+02	1.16E+00	3.29E+02	3.87E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	2.65E-02	0.00E+00	0.00E+00	7.63E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-01	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	4.10E-01	6.16E-03	1.23E+00	2.05E-03
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	4.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-03	1.80E-01	2.73E-02	1.80E+00	2.73E-03
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	2.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-03	1.80E-01	1.32E-02	1.80E+00	1.32E-03
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	6.84E+00	0.00E+00	0.00E+00	9.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E+00	2.08E+01	3.73E-01	4.17E+01	1.86E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	6.07E-03	0.00E+00	0.00E+00	1.43E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-01	1.45E+00	1.03E-01	2.00E+01	7.47E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	9.95E-04	0.00E+00	1.88E-01	0.00E+00	0.00E+00	3.43E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-01	1.00E+00	2.23E-01	5.00E+00	4.46E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	1.19E-03	0.00E+00	1.40E-01	0.00E+00	0.00E+00	1.32E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E+00	4.70E+01	3.12E-02	6.17E+01	2.38E-02
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	4.07E-06	0.00E+00	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	3.00E-01	1.16E-03	9.00E-01	3.87E-04
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.95E-03	0.00E+00	0.00E+00	1.68E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-01	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.33E-02	0.00E+00	0.00E+00	9.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-01	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	1.61E+00	0.00E+00	1.44E+02	0.00E+00	0.00E+00	4.97E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	5.66E-04	0.00E+00	1.70E+00	0.00E+00	NA	3.01E-01	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+00	1.13E+00	1.77E+00	1.13E+01	1.77E-01
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	6.92E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-02	9.77E+02	7.08E-05	9.77E+03	7.08E-06
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	6.03E-02	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-02	4.50E-01	1.37E-01	9.00E-01	6.83E-02
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	9.04E-02	0.00E+00	0.00E+00	9.20E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E+00	7.74E+01	1.31E-02	1.07E+02	9.45E-03
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.32E-02	0.00E+00	7.86E-03	0.00E+00	0.00E+00	2.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-02	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								2.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E+00	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	1.07E+02	3.12E-05	3.20E+02	1.04E-05
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.88E-06	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	6.73E+00	3.64E-05	6.73E+01	3.64E-06
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	3.57E-03	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	6.50E+01	7.40E-05	1.30E+02	3.70E-05
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	3.90E-04	0.00E+00	7.68E-03	0.00E+00	0.00E+00	7.87E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-02	1.80E+00	4.82E-02	5.40E+00	1.61E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.15E-01	0.00E+00	0.00E+00	2.63E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-01	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	4.15E+00	0.00E+00	5.32E-01	0.00E+00	0.00E+00	1.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E+00	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	3.50E-01	1.67E-04	1.05E+00	5.58E-05
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	4.29E-03	0.00E+00	2.43E-01	0.00E+00	0.00E+00	9.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-01	1.14E+01	3.03E-02	3.42E+01	1.01E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	6.32E-01	0.00E+00	0.00E+00	2.91E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E+00	1.45E+01	2.44E-01	1.31E+02	2.71E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.0E+02	7.9E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.3E-04	2.5E-05
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	2.9E-01	2.9E-02
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	4.7E-02	6.1E-03
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	1.2E-03	3.9E-04

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)

Table O-205
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL		
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	1.02E-09	9.86E-08	0.00E+00	1.96E-04	5.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	1.40E-05	1.44E+01	1.40E-04	1.44E+00
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	2.20E+00	7.18E+01	0.00E+00	1.07E+01	8.09E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E+02	1.10E+02	8.15E+00	3.29E+02	2.72E+00
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	2.00E+00	0.00E+00	0.00E+00	2.25E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E+01	2.08E+01	1.18E+00	4.17E+01	5.88E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	1.97E-03	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-01	1.11E+00	9.89E-02	3.33E+00	3.30E-02
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	1.28E-03	0.00E+00	0.00E+00	2.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-02	1.45E+00	1.85E-02	2.00E+01	1.34E-03
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	1.37E-03	0.00E+00	0.00E+00	0.00E+00	1.55E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E+00	1.00E+00	1.55E+00	5.00E+00	3.10E-01	
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	1.83E-03	5.43E-02	0.00E+00	1.22E+01	7.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+01	4.70E+01	2.77E-01	6.17E+01	2.11E-01
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	3.15E+00	0.00E+00	0.00E+00	3.56E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.56E+03	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	7.83E-04	0.00E+00	0.00E+00	1.33E+00	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E+00	3.85E+00	3.46E-01	1.16E+01	1.15E-01
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	1.01E-01	0.00E+00	0.00E+00	2.29E+02	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+02	9.77E+02	2.35E-01	9.77E+03	2.35E-02
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	5.79E-04	0.00E+00	0.00E+00	1.09E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	1.67E-03	6.40E-03	2.60E-01	6.40E-02	2.60E-02
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	7.68E-02	0.00E+00	0.00E+00	4.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-01	7.74E+01	6.75E-03	1.07E+02	4.88E-03
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	8.06E-02	5.23E-03	0.00E+00	9.75E+01	2.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E+01	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								6.32E+00	0.00E+00	0.00E+00	7.64E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E+03	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E+01	0.00E+00	1.30E+02	0.00E+00
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	5.00E-04	6.34E-03	0.00E+00	1.16E-01	7.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-01	4.40E-01	4.42E-01	1.50E+00	1.30E-01
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	6.23E+00	5.25E-01	0.00E+00	7.53E+03	2.76E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E+03	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							8.16E-05	4.19E-03	0.00E+00	1.47E+00	4.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+00	3.50E-01	4.34E+00	1.05E+00	1.45E+00
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	6.68E-03	0.00E+00	0.00E+00	8.08E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E+00	1.14E+01	7.09E-01	3.42E+01	2.36E-01
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	2.50E-01	0.00E+00	0.00E+00	4.71E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E+00	1.45E+01	3.42E-01	1.31E+02	3.78E-02

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00	0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00	0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00	0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00	0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	9.9E-02	3.3E-02
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00	0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF

Table O-206
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Belted Kingfisher at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	1.27E+00	0.00E+00
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	2.22E-10	7.16E-09	0.00E+00	5.79E-06	8.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	1.40E-05	4.20E-01	1.40E-04	4.20E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-02	0.00E+00	1.80E+00	0.00E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-02	0.00E+00	5.80E-01	0.00E+00
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	2.80E-02	0.00E+00
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	3.11E-01	1.34E+01	0.00E+00	1.51E+00	1.51E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+02	1.10E+02	1.52E+00	3.29E+02	5.06E-01
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	0.00E+00	1.23E+00	0.00E+00
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	4.15E-01	0.00E+00	0.00E+00	4.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E+00	2.08E+01	2.44E-01	4.17E+01	1.22E-01
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	4.16E-04	0.00E+00	0.00E+00	4.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-03	1.11E+00	4.76E-03	3.33E+00	1.59E-03
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	3.28E-04	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04	1.45E+00	5.65E-04	2.00E+01	4.10E-05
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	2.76E-04	0.00E+00	0.00E+00	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-01	1.00E+00	1.13E-01	5.00E+00	2.25E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	3.29E-04	1.22E-02	0.00E+00	4.14E-01	4.76E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-01	4.70E+01	1.01E-02	6.17E+01	7.68E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	1.00E-01	0.00E+00
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	4.47E-01	0.00E+00	0.00E+00	1.27E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	1.57E-04	0.00E+00	0.00E+00	7.96E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-02	3.85E+00	2.07E-02	1.16E+01	6.90E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.92E-02	0.00E+00	0.00E+00	5.42E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	9.77E+02	5.57E-03	9.77E+03	5.57E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-01	0.00E+00	9.00E-01	0.00E+00
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	1.10E-04	0.00E+00	0.00E+00	2.06E-04	NA	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	3.16E-04	6.40E-03	4.93E-02	6.40E-02	4.93E-03
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	1.74E-02	0.00E+00	0.00E+00	2.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-02	7.74E+01	4.97E-04	1.07E+02	3.60E-04
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.20E-02	8.23E-04	0.00E+00	4.07E+00	8.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.09E+00	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								8.12E-01	0.00E+00	0.00E+00	2.76E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E+02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+02	0.00E+00	3.20E+02	0.00E+00
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-01	0.00E+00	1.30E+02	0.00E+00
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	1.08E-04	1.37E-03	0.00E+00	2.51E-02	1.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-02	4.40E-01	9.55E-02	1.50E+00	2.80E-02
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	1.15E+00	9.18E-02	0.00E+00	3.92E+02	9.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E+02	NA	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							1.62E-05	8.80E-04	0.00E+00	1.38E-03	9.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-02	3.50E-01	3.48E-02	1.05E+00	1.16E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	1.19E-03	0.00E+00	0.00E+00	4.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.06E-01	1.14E+01	3.56E-02	3.42E+01	1.19E-02
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	5.65E-02	0.00E+00	0.00E+00	2.74E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-01	1.45E+01	2.28E-02	1.31E+02	2.52E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	0.0E+00		0.0E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	0.0E+00		0.0E+00
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	0.0E+00		0.0E+00
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	0.0E+00		0.0E+00
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	4.8E-03		1.6E-03
Aldrin/Dieldrin/Endrin EEQ:	0.0E+00		0.0E+00

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x \, Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (B

Table O-207
BERA Tier 1 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL	LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	8.46E+00	mg/kg	1.00E+00			1.31E+01	8.96E+00	8.96E+00	8.96E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	2.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-02	1.67E-02	1.15E-01	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.38E-01	mg/kg	1.00E+00			1.31E+01	5.33E+00	5.33E+00	5.33E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	4.69E-04	3.23E-03	4.22E-01	7.65E-03	1.27E+00	2.55E-03
2,3,7,8-TCDD TEQ	9.44E-09	mg/L	1.41E-05	mg/kg	7.33E-05	mg/kg	1.00E+00	1.70E+05	2.19E+01	2.22E+01	4.55E-03	4.55E-03	4.55E-03	6.09E-02	6.09E-02	2.77E-10	0.00E+00	2.28E-08	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-08	7.64E-09	6.56E-06	1.40E-05	4.69E-01	1.40E-04	4.69E-02
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	4.91E+02	mg/kg	1.00E+00			3.60E-01	3.20E-01	3.20E-01	3.20E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E+00	9.68E-01	6.66E+00	7.00E-02	9.52E+01	1.80E+00	3.70E+00
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.23E+00	mg/kg	1.00E+00			6.40E-02	2.78E+00	2.78E+00	2.78E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-02	2.42E-03	1.67E-02	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.40E+00	mg/kg	1.00E+00			3.50E-01	2.37E+00	2.37E+00	2.37E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-02	4.74E-03	3.26E-02	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	6.15E-04	mg/kg	1.00E+00		4.20E-01	1.55E+01	8.00E-02	8.00E-02	8.00E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06	1.21E-06	8.35E-06	2.80E-03	2.98E-03	2.80E-02	2.98E-04
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E-03	mg/kg	1.00E+00		1.23E+01	1.56E+01	6.20E-01	6.20E-01	6.20E-01	9.94E-01	9.94E-01	0.00E+00	0.00E+00	6.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	3.50E-06	2.42E-05	5.80E-02	4.17E-04	5.80E-01	4.17E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	2.85E-04	mg/kg	1.00E+00		1.68E+00	1.61E+01	8.00E-02	8.00E-02	8.00E-02	1.66E+00	1.66E+00	0.00E+00	0.00E+00	8.87E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06	8.11E-07	5.55E-06	2.80E-03	1.98E-03	2.80E-02	1.98E-04
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.61E+01	6.78E-03	6.78E-03	6.78E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.90E-04	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-06	5.71E-07	3.93E-06	2.14E+00	1.84E-06	1.07E+01	3.68E-07
Aluminum	2.03E+01	mg/L	1.03E+04	mg/kg	9.02E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	1.18E-01	2.30E-03	2.30E-03	2.30E-03	8.66E-03	8.66E-03	5.96E-01	0.00E+00	2.81E+00	3.53E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-01	1.34E-01	4.65E+00	1.10E+02	4.24E-02	3.29E+02	1.41E-02
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.57E+00	mg/kg	1.00E+00			1.14E+00	7.00E-02	7.00E-02	7.00E-02	1.66E-01	1.66E-01	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-03	7.29E-04	5.70E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	3.34E-03	mg/kg	1.00E+00			1.58E+01	1.63E-01	1.63E-01	1.63E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	6.59E-06	4.54E-05	4.10E-01	1.11E-04	1.23E+00	3.69E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	1.01E-02	1.01E-02	1.01E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	5.97E-03	mg/kg	1.00E+00		2.19E+01	1.62E+01	8.84E-03	8.84E-03	8.84E-03	1.06E+00	1.06E+00	0.00E+00	0.00E+00	1.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05	1.08E-05	7.48E-05	1.80E-01	4.16E-04	1.80E+00	4.16E-05
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	2.66E-03	mg/kg	1.00E+00			1.71E+01	4.55E-03	4.55E-03	4.55E-03	1.92E+00	1.92E+00	0.00E+00	0.00E+00	8.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	8.72E-06	5.95E-05	1.80E-01	3.30E-04	1.80E+00	3.30E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.40E+01	5.26E-01	5.26E-01	5.26E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.86E+02	mg/kg	1.01E+03	mg/kg	1.00E+00	1.01E+03	4.50E+00	1.08E-02	7.30E-01	7.30E-01	7.30E-01	3.31E-02	3.31E-02	0.00E+00	0.00E+00	3.14E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-01	5.73E-02	7.00E-01	2.08E+01	3.36E-02	4.17E+01	1.68E-02
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.33E+01	3.21E+00	3.21E+00	3.21E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.82E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.55E+03	2.19E+01	1.71E+01	1.57E-03	1.57E-03	1.57E-03	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	6.17E-02	6.17E-02	6.17E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	5.20E-01	mg/kg	1.00E+00	1.63E+03	7.99E+00	2.31E+00	1.33E+00	8.31E-01	8.31E-01	9.22E-01	9.22E-01	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03	8.20E-04	5.68E-03	1.45E+00	3.92E-03	2.00E+01	2.84E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	1.27E-02	mg/L	0.00E+00	mg/kg	1.61E+01	mg/kg	1.00E+00	1.00E+03		1.90E-02	4.80E-01	4.80E-01	4.80E-01	3.33E-01	3.33E-01	3.72E-04	0.00E+00	4.99E-03	5.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-02	9.16E-03	1.18E-01	1.00E+00	1.18E-01	5.00E+00	2.36E-02
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.69E-02	mg/L	7.78E+00	mg/kg	1.37E+01	mg/kg	1.00E+00	5.92E+03	5.25E+00	8.28E-01	5.59E-01	3.96E-01	3.96E-01	1.49E-01	1.49E-01	4.96E-04	0.00E+00	4.26E-03	4.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-02	3.50E-03	4.32E-01	4.70E+01	9.20E-03	6.17E+01	7.01E-03
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	1.53E+01	1.64E+00	1.64E+00	1.64E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	4.39E-04	mg/kg	1.00E+00			1.53E+01	3.82E-02	3.82E-02	3.82E-02	1.22E+00	1.22E+00	0.00E+00	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.23E-06	9.13E-07	6.28E-06	1.00E-02	6.28E-04	1.00E-01	6.28E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.55E+01	1.59E-02	1.59E-02	1.59E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	2.10E-01	mg/kg	1.00E+00			1.55E+01	1.89E-02	1.89E-02	1.89E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-03	4.13E-04	2.84E-03	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.43E+00	mg/kg	1.00E+00			1.27E+01	8.38E+00	8.38E+00	8.38E+00	1.15E+00	1.15E+00	0.00E+00	0.00E+00	4.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-02	2.81E-03	1.93E-02	NA	NA	NA	NA
Iron	2.91E+01	mg/L	0.00E+00	mg/kg	1.28E+04	mg/kg	1.00E+00	1.00E+03		7.80E-02	4.00E-03	4.00E-03	4.00E-03	2.07E-03	2.07E-03	8.54E-01	0.00E+00	3.98E+00	1.18E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-01	4.53E-02	1.23E+02	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		2.19E+01		1.41E+01	1.41E+01	1.41E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Lead	7.24E-03	mg/L	0.00E+00	mg/kg	1.78E+02	mg/kg	1.00E+00	1.50E+03	NA	1.85E-02	NA	2.70E-02	2.70E-02	1.33E-02	1.33E-02	2.13E-04	0.00E+00	5.54E-02	4.39E-02	NA	0.00E+00	NA	0.00E+00	0.00E+00	2.32E-02	4.05E-03	1.27E-01	3.85E+00	3.29E-02	1.16E+01	1.10E-02
Manganese	9.37E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.00E+03	2.10E+00	NA	1.00E-01	1.00E-01	1.00E-01	9.57E-03	9.57E-03	2.75E-02	0.00E+00	0.00E+00	7.58E+00	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E+00	9.77E+02	7.78E-03	9.77E+03	7.78E-04
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	1.10E-01	mg/kg	1.00E+00		7.50E-01	4.75E+00	NA	1.02E+00	1.02E+00	1.03E-01	1.03E-01	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	1.11E-04	1.93E-05	1.64E-04	4.50E-01	3.65E-04	9.00E-01	1.82E-04
Mercury (methyl)	0.00E+00	mg/L	8.29E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.16E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	3.52E-04	mg/kg	1.00E+00			1.62E+01	3.44E-02	3.44E-02	3.44E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.97E-06	6.94E-07	4.77E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	1.10E+01	mg/kg	7.49E+00	mg/kg	1.00E+00		2.32E+00	4.73E+00	5.96E-02	6.57E-02	6.57E-02	1.01E-01	1.01E-01	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-03	1.29E-03	1.10E-02	7.74E+01	1.43E-04	1.07E+02	1.03E-04
Nitrate	7.46E-01	mg/L	7.48E-01	mg/kg	1.08E+00	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	2.19E-02	0.00E+00	3.34E-04	3.22E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-03	3.06E-04	3.24E+00	NA	NA	NA	NA
Nitrate/Nitrite	5.84E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	1.07E+03								1.72E+00	0.00E+00	0.00E+00	2.52E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E+02	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.53E+01	2.63E-02	2.63E-02	2.63E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.51E-03	mg/kg	1.00E+00			1.44E+01	1.89E-01	1.89E-01	1.89E-01	1.15E+00	1.15E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	6.92E-06	4.76E-05	1.07E+02	4.46E-07	3.20E+02	1.49E-07
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.98E-04	mg/kg	1.00E+00			1.52E+01	3.35E-02	3.35E-02	3.35E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	9.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	5.87E-07	4.04E-06	6.73E+00	6.01E-07	6.73E+01	6.01E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.49E+01	7.05E-02	7.05E-02	7.05E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	1.32E-01	mg/kg	1.00E+00			1.14E+00	NA	2.56E+01	2.56E+01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	4.11E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	2.15E-04	3.75E-05	2.94E-04	6.50E+01	4.52E-06	1.30E+02	2.26E-06
Selenium	4.63E-03	mg/L	9.08E-01	mg/kg	6.76E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.03E+00	5.02E-01	4.87E-01	4.87E-01	1.95E-01	1.95E-01	1.36E-04	0.00E+00	2.10E-04	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	2.25E-04	5.70E-03	4.40E-01	1.29E-02	1.50E+00	3.80E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.70E-01	1.70E-01	1.70E-01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	3.28E+01	mg/kg	1.00E+00		2.10E+00	2.78E-01	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	0.00E+00	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-02	9.32E-03	7.29E-02	NA	NA	NA	NA
Sulfate	5.76E+01	mg/L	7.51E+01	mg/kg	1.04E+02	mg/kg	1.00E+00	1.07E+03	2.10E+00	1.14E+00	3.50E-01	3.50E-01	3.50E-01	1.66E-01	1.66E-01	1.69E+00	0.00E+00	3.23E-02	2.49E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-01	2.96E-02	2.51E+02	NA	NA	NA	NA
Thallium	7.55E-04	mg/L	6.00E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	1.59E+04	4.50E+00							2.22E-05	0.00E+00	0.00E+00	4.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-02	3.50E-01	1.39E-01	1.05E+00	4.62E-02
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			1.58E+01	4.03E-02	4.03E-02	4.03E-02	1.15E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	6.18E-02	mg/L	0.00E+00	mg/kg	2.15E+01	mg/kg	1.00E+00	1.07E+03	2.10E+00	8.80E-02	4.00E-03	4.00E-03	4.00E-03	5.92E-03	5.92E-03	1.81E-03	0.00E+00	6.67E-03	2.67E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	2.17E-04	2.77E-01	1.14E+01	2.43E-02	3.42E+01	8.09E-03
Zinc	0.00E+00	mg/L	3.58E+01	mg/kg	6.24E+01	mg/kg	1.00E+00	5.00E+03	7.53E+00	4.80E-01	1.01E+00	7.87E-01	7.87E-01	4.51E-01	4.51E-01	0.00E+00	0.00E+00	1.94E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-01	4.81E-02	3.43E-01	1.45E+01	2.37E-02	1.31E+02	2.62E-03

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	9.5E+01	3.7E+00
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	1.8E-06	3.7E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	5.4E-03	5.4E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	8.6E-04	1.1E-04
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00	0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	6.3E-04	6.3E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \times Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/Not available
BAF (or BCF) values from appropriate text tables (BCF = bioconcentration factor)

Table O-208
BERA Tier 2 Chemicals of Potential Concern
EEQs and Hazard Indices for the Red-tailed Hawk at the LHAAP
Waste Sub-Area/Harrison Bayou Watershed

Chemical	Surface Water Exposure Point Concentration	Units	Sediment Exposure Point Concentration	Units	Surface Soil Exposure Point Concentration	Units	Soil BAF	Fish BAF	Aq. Invert. BAF	Terr. Invert. BAF	Aq. Plant BAF	Terr. Plant BAF	Plant Root BAF	Mammal BAF	Bird BAF	EED Surface Water	EED Sediment	EED Soil	EED Fish	EED Aq. Invert.	EED Terr. Invert.	EED Aq. Plants	EED Terr. Plants	EED Plant Roots	EED Mammals	EED Birds	Total EED	NOAEL		LOAEL	
							----------Unitless----------									mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	mg/kg-d	EEQ N	mg/kg-d	EEQ L
1,3,5-Trinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	5.16E+00	mg/kg	1.00E+00			7.53E+00	5.62E+00	5.62E+00	5.62E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	8.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-02	4.22E-03	2.93E-02	NA	NA	NA	NA
1,3-Dinitrobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.49E-01	mg/kg	1.00E+00			7.58E+00	4.42E+00	4.42E+00	4.42E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-04	1.22E-04	8.48E-04	4.22E-01	2.01E-03	1.27E+00	6.70E-04
2,3,7,8-TCDD TEQ	8.00E-09	mg/L	4.00E-06	mg/kg	3.16E-05	mg/kg	1.00E+00	2.31E+04	4.67E+00	1.10E+01	3.87E-03	3.87E-03	3.87E-03	4.73E-02	4.73E-02	1.28E-10	0.00E+00	5.38E-09	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-09	1.40E-09	4.23E-07	1.40E-05	3.02E-02	1.40E-04	3.02E-03
2,4,6-Trinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E+02	mg/kg	1.00E+00			3.60E-01	1.60E-01	1.60E-01	1.60E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+00	2.03E-01	1.40E+00	7.00E-02	2.01E+01	1.80E+00	7.80E-01
2,4-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	5.56E-01	mg/kg	1.00E+00			6.40E-02	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	4.55E-04	3.16E-03	NA	NA	NA	NA
2,6-Dinitrotoluene	0.00E+00	mg/L	0.00E+00	mg/kg	1.24E+00	mg/kg	1.00E+00			3.50E-01	2.13E+00	2.13E+00	2.13E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-03	1.02E-03	7.07E-03	NA	NA	NA	NA
4,4'-DDD	0.00E+00	mg/L	0.00E+00	mg/kg	4.55E-04	mg/kg	1.00E+00		4.20E-01	8.95E+00	2.80E-02	2.80E-02	2.80E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	7.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-06	3.73E-07	2.59E-06	2.80E-03	9.24E-04	2.80E-02	9.24E-05
4,4'-DDE	0.00E+00	mg/L	0.00E+00	mg/kg	1.48E-03	mg/kg	1.00E+00		1.23E+01	9.00E+00	1.36E-01	1.36E-01	1.36E-01	9.42E-01	9.42E-01	0.00E+00	0.00E+00	2.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	1.30E-06	9.00E-06	5.80E-02	1.55E-04	5.80E-01	1.55E-05
4,4'-DDT	0.00E+00	mg/L	0.00E+00	mg/kg	1.98E-04	mg/kg	1.00E+00		1.68E+00	9.28E+00	2.80E-02	2.80E-02	2.80E-02	8.87E-01	8.87E-01	0.00E+00	0.00E+00	3.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-07	1.64E-07	1.14E-06	2.80E-03	4.07E-04	2.80E-02	4.07E-05
Aldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.26E+00	4.86E-03	4.86E-03	4.86E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
alpha-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	2.37E-04	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06	1.94E-07	1.35E-06	2.14E+00	6.29E-07	1.07E+01	1.26E-07
Aluminum	1.12E+01	mg/L	7.50E+03	mg/kg	6.95E+03	mg/kg	1.00E+00	4.30E+00	4.50E+00	4.30E-02	1.50E-03	1.50E-03	1.50E-03	6.63E-03	6.63E-03	1.80E-01	0.00E+00	1.18E+00	1.07E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-01	4.31E-02	1.76E+00	1.10E+02	1.60E-02	3.29E+02	5.34E-03
Antimony	0.00E+00	mg/L	0.00E+00	mg/kg	2.06E+00	mg/kg	1.00E+00			3.00E-01	3.70E-02	3.70E-02	3.70E-02	1.11E-01	1.11E-01	0.00E+00	0.00E+00	3.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-03	2.13E-04	1.79E-03	NA	NA	NA	NA
Aroclor 1242	0.00E+00	mg/L	0.00E+00	mg/kg	2.22E-03	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	1.82E-06	1.26E-05	4.10E-01	3.08E-05	1.23E+00	1.03E-05
Aroclor 1248	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.12E+00	8.38E-03	8.38E-03	8.38E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Aroclor 1254	0.00E+00	mg/L	0.00E+00	mg/kg	4.21E-03	mg/kg	1.00E+00		4.67E+00	9.35E+00	3.58E-03	3.58E-03	3.58E-03	4.98E-01	4.98E-01	0.00E+00	0.00E+00	7.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	1.96E-06	1.39E-05	1.80E-01	7.72E-05	1.80E+00	7.72E-06
Aroclor 1260	0.00E+00	mg/L	0.00E+00	mg/kg	1.94E-03	mg/kg	1.00E+00			9.83E+00	6.43E-04	6.43E-04	6.43E-04	1.67E+00	1.67E+00	0.00E+00	0.00E+00	3.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	3.03E-06	2.07E-05	1.80E-01	1.15E-04	1.80E+00	1.15E-05
Aroclor 1268	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.07E+00	5.26E-01	5.26E-01	5.26E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-01	0.00E+00	1.80E+00	0.00E+00
Barium	0.00E+00	mg/L	2.32E+02	mg/kg	5.33E+02	mg/kg	1.00E+00	2.00E+01	4.50E+00	1.38E-02	7.30E-01	7.30E-01	7.30E-01	2.00E-02	2.00E-02	0.00E+00	0.00E+00	9.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-02	9.97E-03	1.58E-01	2.08E+01	7.58E-03	4.17E+01	3.78E-03
Benzoic Acid	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			7.65E+00	3.21E+00	3.21E+00	3.21E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
bis(2-ethylhexyl)phthalate	0.00E+00	mg/L	2.33E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.15E+02	4.67E+00	9.88E+00	5.48E-04	5.48E-04	5.48E-04	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	0.00E+00	3.33E+00	0.00E+00
Butylbenzyl phthalate	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.60E+00	5.62E-02	5.62E-02	5.62E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	NA	NA
Cadmium	0.00E+00	mg/L	1.83E-01	mg/kg	4.73E-01	mg/kg	1.00E+00	1.15E+03	6.00E-01	2.46E+00	1.33E+00	8.67E-01	8.67E-01	6.72E-01	6.72E-01	0.00E+00	0.00E+00	8.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-03	2.97E-04	2.08E-03	1.45E+00	1.43E-03	2.00E+01	1.04E-04
Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Chromium (trivalent)	9.95E-03	mg/L	0.00E+00	mg/kg	1.46E+01	mg/kg	1.00E+00	3.60E+02		1.90E-02	4.10E-02	4.10E-02	4.10E-02	8.46E-02	8.46E-02	1.60E-04	0.00E+00	2.49E-03	7.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-03	1.16E-03	1.83E-02	1.00E+00	1.83E-02	5.00E+00	3.67E-03
Chromium (hexavalent)	NA																														
cis-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Copper	1.19E-02	mg/L	6.82E+00	mg/kg	1.09E+01	mg/kg	1.00E+00	1.11E+03	1.56E+00	9.82E-01	6.06E-01	4.54E-01	4.54E-01	8.97E-02	8.97E-02	1.90E-04	0.00E+00	1.86E-03	2.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-03	9.17E-04	3.73E-02	4.70E+01	7.95E-04	6.17E+01	6.05E-04
Dieldrin	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		5.80E+00	8.80E+00	2.40E-02	2.40E-02	2.40E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00	2.31E-01	0.00E+00
Endrin	0.00E+00	mg/L	0.00E+00	mg/kg	3.17E-04	mg/kg	1.00E+00			8.80E+00	2.74E-02	2.74E-02	2.74E-02	1.21E+00	1.21E+00	0.00E+00	0.00E+00	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-06	3.60E-07	2.47E-06	1.00E-02	2.47E-04	1.00E-01	2.47E-05
gamma-Chlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Heptachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.95E+00	1.15E-02	1.15E-02	1.15E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-01	0.00E+00	2.76E+00	0.00E+00
Hexachlorobenzene	0.00E+00	mg/L	0.00E+00	mg/kg	1.52E-01	mg/kg	1.00E+00			8.95E+00	1.59E-02	1.59E-02	1.59E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	2.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	1.25E-04	8.64E-04	NA	NA	NA	NA
HMX	0.00E+00	mg/L	0.00E+00	mg/kg	1.03E+00	mg/kg	1.00E+00			7.34E+00	8.38E+00	8.38E+00	8.38E+00	8.76E-01	8.76E-01	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-03	8.46E-04	5.86E-03	NA	NA	NA	NA
Iron	1.61E+01	mg/L	0.00E+00	mg/kg	1.12E+04	mg/kg	1.00E+00	2.50E+02		3.60E-02	4.00E-03	4.00E-03	4.00E-03	1.76E-03	1.76E-03	2.59E-01	0.00E+00	1.90E+00	8.91E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-01	1.84E-02	1.12E+01	NA	NA	NA	NA
Isobutanol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.67E+00		1.39E+01	1.39E+01	1.39E+01			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	5.66E-03	mg/L	0.00E+00	mg/kg	1.32E+02	mg/kg	1.00E+00	4.48E+02	NA	1.85E-02	NA	3.08E-02	3.08E-02	1.16E-02	1.16E-02	9.08E-05	0.00E+00	2.25E-02	5.60E-03	NA	0.00E+00	NA	0.00E+00	0.00E+00	8.24E-03	1.44E-03	3.78E-02	3.85E+00	9.83E-03	1.16E+01	3.28E-03
Manganese	6.92E-01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	2.50E+02	4.20E-01	NA	7.90E-02	7.90E-02	7.90E-02	7.58E-03	7.58E-03	1.11E-02	0.00E+00	0.00E+00	3.82E-01	0.00E+00	NA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-01	9.77E+02	4.02E-04	9.77E+03	4.02E-05
Mercury (inorganic)	0.00E+00	mg/L	0.00E+00	mg/kg	9.02E-02	mg/kg	1.00E+00		7.50E-01	5.42E+00	NA	1.11E+00	1.11E+00	9.15E-02	9.15E-02	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	4.42E-05	7.71E-06	6.72E-05	4.50E-01	1.49E-04	9.00E-01	7.46E-05
Mercury (methyl)	0.00E+00	mg/L	6.13E-02	mg/kg	0.00E+00	mg/kg	1.00E+00		7.50E-01	NA	1.33E+00	NA	NA			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00	6.40E-03	0.00E+00	6.40E-02	0.00E+00
Mirex	0.00E+00	mg/L	0.00E+00	mg/kg	2.47E-04	mg/kg	1.00E+00			9.36E+00	3.44E-03	3.44E-03	3.44E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	4.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-06	2.02E-07	1.40E-06	NA	NA	NA	NA
Nickel	0.00E+00	mg/L	9.70E+00	mg/kg	7.04E+00	mg/kg	1.00E+00		4.86E-01	1.06E+00	6.15E-02	6.67E-02	6.67E-02	8.71E-02	8.71E-02	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03	5.73E-04	5.05E-03	7.74E+01	6.53E-05	1.07E+02	4.72E-05
Nitrate	4.32E-01	mg/L	4.60E-01	mg/kg	6.12E-01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.92E-03	0.00E+00	1.04E-04	2.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	6.34E-05	2.94E-01	NA	NA	NA	NA
Nitrate/Nitrite	2.93E+01	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00	3.01E+02								4.70E-01	0.00E+00	0.00E+00	1.95E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E+01	NA	NA	NA	NA
Oxychlordane	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.81E+00	2.63E-02	2.63E-02	2.63E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
p-Isopropyltoluene	0.00E+00	mg/L	0.00E+00	mg/kg	3.21E-03	mg/kg	1.00E+00			8.32E+00	1.65E-01	1.65E-01	1.65E-01	8.76E-01	8.76E-01	0.00E+00	0.00E+00	5.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	2.63E-06	1.82E-05	1.07E+02	1.71E-07	3.20E+02	5.69E-08
Pentachloroanisole	0.00E+00	mg/L	0.00E+00	mg/kg	2.24E-04	mg/kg	1.00E+00			8.75E+00	2.74E-02	2.74E-02	2.74E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	3.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-06	1.84E-07	1.27E-06	6.73E+00	1.89E-07	6.73E+01	1.89E-08
Pentachlorophenol	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			8.56E+00	4.25E-02	4.25E-02	4.25E-02	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E+00	0.00E+00	6.73E+01	0.00E+00
Perchlorate	0.00E+00	mg/L	0.00E+00	mg/kg	9.65E-02	mg/kg	1.00E+00			3.00E-01	NA	2.91E+01	2.91E+01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	1.64E-05	0.00E+00	0.00E+00	0.00E+00	NA	0.00E+00	0.00E+00	5.72E-05	9.99E-06	8.36E-05	6.50E+01	1.29E-06	1.30E+02	6.43E-07
Selenium	3.90E-03	mg/L	7.65E-01	mg/kg	5.98E-01	mg/kg	1.00E+00	2.05E+02	4.50E+00	1.07E+00	4.93E-01	4.81E-01	4.81E-01	1.51E-01	1.51E-01	6.26E-05	0.00E+00	1.02E-04	1.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	8.45E-05	2.50E-03	4.40E-01	5.68E-03	1.50E+00	1.67E-03
Silver	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00		4.50E+00		1.40E-02	1.40E-02	1.40E-02			0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E+00	0.00E+00	5.44E+01	0.00E+00
Strontium	0.00E+00	mg/L	0.00E+00	mg/kg	2.45E+01	mg/kg	1.00E+00		4.20E-01	8.70E-02	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	0.00E+00	0.00E+00	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-02	2.54E-03	2.12E-02	NA	NA	NA	NA
Sulfate	4.15E+01	mg/L	5.13E+01	mg/kg	4.14E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	3.00E-01	2.10E-01	2.10E-01	2.10E-01	1.11E-01	1.11E-01	6.65E-01	0.00E+00	7.04E-03	2.76E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-02	4.29E-03	2.83E+01	NA	NA	NA	NA
Thallium	5.86E-04	mg/L	4.92E-01	mg/kg	0.00E+00	mg/kg	1.00E+00	7.50E+01	4.50E+00							9.40E-06	0.00E+00	0.00E+00	9.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	3.50E-01	3.04E-04	1.05E+00	1.01E-04
trans-Nonachlor	0.00E+00	mg/L	0.00E+00	mg/kg	0.00E+00	mg/kg	1.00E+00			9.09E+00	9.33E-03	9.33E-03	9.33E-03	8.76E-01	8.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+00	0.00E+00	1.07E+01	0.00E+00
Vanadium	4.29E-02	mg/L	0.00E+00	mg/kg	1.89E+01	mg/kg	1.00E+00	3.01E+02	4.20E-01	4.20E-02	3.60E-03	3.60E-03	3.60E-03	5.49E-03	5.49E-03	6.87E-04	0.00E+00	3.21E-03	2.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	9.70E-05	3.30E-02	1.14E+01	2.90E-03	3.42E+01	9.66E-04
Zinc	0.00E+00	mg/L	3.15E+01	mg/kg	4.92E+01	mg/kg	1.00E+00	2.91E+03	1.94E+00	4.80E-01	1.06E+00	8.74E-01	8.74E-01	1.84E-01	1.84E-01	0.00E+00	0.00E+00	8.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-02	8.47E-03	6.53E-02	1.45E+01	4.51E-03	1.31E+02	4.99E-04

Nitrotoluenes (2,4-DNT, 2,6-DNT, TNT) EEQ:	2.0E+01		7.8E-01
Chlordane-like chemicals (alpha/gamma chlordane, cis/trans nonachlor, heptachlor, oxychlordane) EEQ:	6.3E-07		1.3E-07
DDX (4,4'-DDD, -DDE, -DDT) EEQ:	1.5E-03		1.5E-04
Aroclors (Aroclor 1242, 1248, 1254, 1260, 1268) EEQ:	2.2E-04		2.9E-05
Phthalates (bis-2ethylhexyl and butylbenzyl) EEQ:	0.0E+00		0.0E+00
Aldrin/Dieldrin/Endrin EEQ:	2.5E-04		2.5E-05

Intake Equation:

$$Ej = \left(\frac{A}{HR} \left[\sum_{i=1}^{m} \left(\frac{IRi \, x Cij}{BW} \right) \right] \right)$$

Where:
Ej = Total Exposure to Chemical
A = Site Area
HR = Home Range
m = Total number of ingested media
i = counter
IRi = Consumption Rate for Medium
Cij = Chemical concentration (j) in medium (I) (mg/kg or mg/L)
BW = Body Weight

Notes:
Tier 1 = Upper-bound EEQ using 95% UCL, upper-bound BAF/BCF (e.g., 90th percentile), avg food intake rates, avg BW, and min home range.
Tier 2 = EEQ using mean EPC, avg BAF/BCF, avg food intake rate, avg BW, and mean home range.
BAF = Bioaccumulation Factor (may be BCF if this is the only value available)
EED = Estimated Exposure Dose
EEQ = Ecological Effects Quotient.
L = LOAEL based; N = NOAEL based
LOAEL = Lowest Observed Adverse Effect Level
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NOAEL = No Observed Adverse Effect Level
NA = Not applicable/

Appendix P

Rodent Sperm Analysis Report (USACHPPM, 2006)

RODENT SPERM ANALYSIS REPORT NO. 39-DA-0107-04
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
JANUARY-FEBRUARY 2004

Approved for public release; distribution unlimited

EXECUTIVE SUMMARY
RODENT SPERM ANALYSIS REPORT NO. 39-DA-0107-04
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
JANUARY-FEBRUARY 2004

1. PURPOSE. The purpose of this report is to summarize the findings of the Rodent Sperm Analysis method applied at Longhorn Army Ammunition Plant (LHAAP), Texas in January-February 2004, and thereby supplement LHAAP's Installation-Wide Ecological Risk Assessment.

2. CONCLUSIONS.

2.1 For the Hispid cotton rat (the dominant rodent species present at LHAAP), none of the established sperm parameter thresholds for effect were exceeded at the three study sites. The data are interpreted to mean that reproductive capability is not compromised in maximally exposed terrestrial receptors (small rodents) and by extension in other larger and wider-ranging mammals.

2.2 Corroboration for the finding of successful reproduction in mammals based on sperm parameters is provided by the similarity in total animal captures at the study sites and the reference areas.

2.3 Some Hispid cotton rats at the Plant 2 site were observed to have no sperm. In light of the numerous animal captures, there appears to be no reproductive compromise associated with this observation.

Table of Contents

Paragraph Page

1. REFERENCES 1

2. AUTHORITY 1

3. PURPOSE 1

4. INTRODUCTION 1

5. SITE AND STUDY BACKGROUND 3

6. METHODS 4

7. RSA RESULTS 5

8. DISCUSSION 7

9. UNCERTAINTY 10

10. CONCLUSIONS 11

Appendices

A – REFERENCES A-1
B – FIGURES B-1
C – TABLES C-1
D - MALE REPRODUCTIVE ASSESSMENT REPORT (MRAR) D-1

MCHB-TS-REH

RODENT SPERM ANALYSIS REPORT NO. 39-DA-0107-04
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
JANUARY-FEBRUARY 2004

1. REFERENCES. See Appendix A for a list of references used to prepare this report.

2. AUTHORITY. Statement of Work between Longhorn Army Ammunition Plant (LHAAP), U.S. Army Environmental Center (USAEC) and U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM), 16 July 2003.

3. PURPOSE. To summarize the findings of the Rodent Sperm Analysis (RSA) method applied at LHAAP, Texas in January-February 2004, and thereby supplement LHAAP's Installation-Wide Ecological Risk Assessment (ERA).

4. INTRODUCTION. The conventional approach to terrestrial ERA at hazardous waste sites largely involves the desktop computation of hazard quotients (HQs). HQs are simple ratios of an ecological receptor's estimated chemical intake (in units of mg of chemical ingested/ kg of receptor body weight/day) to either an assumed safe- or effect-level dose of the same chemical, in the same units as the chemical intake. HQs have a number of limitations, primary among them that they are not measures of risk (references 1-3). In light of these limitations and with the intention of supplying more definitive health effects assessment information for several areas of concern at LHAAP, the LHAAP in conjunction with the USAEC, funded the USACHPPM to apply an innovative field-truthing method. Rodent Sperm Analysis is a patent pending method designed to bring ERAs at sites, such as LHAAP to closure, by allowing for as definitive a determination of receptor health as is possible at the present time.

4.1 The RSA method (reference 4) recognizes that at sites such as LHAAP, with contamination that is no less than five decades old, more than ample opportunity has been afforded the site receptors to develop signs of toxicological stress or impact from their onsite exposures (references 5-7). Further, if noteworthy effects should not be apparent in site

receptors at this late date (the anticipated outcome at historically contaminated sites), it can be concluded that any in-place contamination is not of ecological concern. In the event that noteworthy effects are absent, there are only two realistic explanations to offer - critical ecological effects never took hold or effects may have occurred at one time in the past, but with decades having elapsed, full ecological rebounding has come about by the present day.

4.2 The RSA method is designed to work around the ever-present constraint of a very limited list of ecological species available for field collection and sacrifice en route to furnishing quality site assessment information. In addition, the RSA method recognizes the many advantages to working with small rodents, including their being year-round, nonmigratory species, and their having (with minor exception) the greatest degree of direct exposure to soil contaminants of any terrestrial receptor. For all intents and purposes then, RSA evaluates a worse-case exposure scenario for terrestrial receptors.

4.3 RSA is a sensitive testing procedure that borrows from established methods that are applied daily in research and clinical laboratory settings. In short, sperm parameters (such as sperm count) in field-collected rodents are assessed because they are barometers of reproductive success - ERA's preferred toxicological endpoint (see Section 8). Using RSA, if onsite rodents are found to have impaired or compromised reproduction, it is assumed that other site terrestrial receptors are also reproductively compromised. If onsite rodents are not found to be reproductively compromised, it is concluded that other terrestrial receptors are also healthy. Because RSA is able to render a definitive assessment regarding the toxicological endpoint of greatest interest in ERA (something that the conventional HQ-based approach to ERA cannot do), an RSA report never needs to recommend that additional study or monitoring be conducted at a contaminated site. Additionally, other than RSA, at the present time there are no developed field-based methods for those terrestrial receptors that can trigger a remedial action (namely, mammals and birds).

4.4 In RSA, the role of chemical exposure in sperm parameter threshold exceedance is often misunderstood. To the extent that site and reference location are well-matched, differing only in their soil chemistries, observed sperm effects must be due to chemical-in-soil influences (reference 4). It must be remembered, however, that in almost all RSA applications there will be a multitude of chemicals present in the soil, as is the case for the LHAAP sites reviewed in this report. Consequently, ascribing causation to any one chemical or to just a few is quite unreliable given that the toxicology of chemical mixtures is very poorly understood at the present time (references 8 and 9). This inability to ascribe sperm parameter effects to specific chemicals in site soils is not an RSA method shortcoming and does not impact on ERA decision-making for several reasons. First, the anticipated outcome of RSA applications is that sperm parameter exceedances will not be observed due to multiple decades' worth of opportunities for site receptors to adjust to a site's contaminated condition. Further, in the rare event that a threshold is exceeded, best professional judgment will commonly dictate the chemical that is likely to be the most responsible (the risk "driver"). Additionally, where soils are remediated for one specific contaminant, other problematic but less threatening soil chemicals are generally removed as well. It is critical to note here that the RSA method is similar to standard toxicity tests applied in ERA (e.g., earthworm reproduction, plant growth, etc.), in that it is not necessary to know *a priori* that present in the exposure medium (here, soil) is at least one chemical that is

known to trigger the test endpoint. Although RSA does not require the presence in soil of at least one confirmed sperm toxin (reference 4), numerous chemicals that are commonly encountered at hazardous waste sites have been proven to be spermatoxic. A subset of these chemicals, a number of which occur at the LHAAP sites discussed in this report include arsenic, cadmium, chromium, lead, mercury, molybdenum, nickel, 1,3-DNB, 1,3,5-TNB, and 2,4,6-TNT (references 10-25).

4.5 With RSA, as with any experimental approach, it is critical that datasets be well-defined *a priori*. Failure to do so can lead to erroneous results and the reporting of erroneous findings. In the case of RSA, where sperm count has been shown repeatedly to be the sperm parameter to most regularly shift, as well as the sperm parameter that changes the most dramatically (unpublished data), only those adult male rodents that have sperm present are considered when calculating a mean sperm count for either the site or the reference area population. Male animals that have no sperm will not be contributing to population growth, since no fertilizations can result from the matings of these animals with viable females. Averaging zero sperm counts with measured (positive) sperm counts would lead to a biased and grossly underestimated term. The interest then is in computing a representative (specifically an average) sperm count for those animals who are contributing reproductively. It is critical to note here that zero sperm counts (should they occur) and all other noticeable sperm aberrations should always be reported (see paragraph 7.2) and their implications discussed (see paragraphs 8.3 and 8.4).

5. SITE AND STUDY BACKGROUND. LHAAP, located in central-east Texas in the northeastern corner of Harrison County and near the city of Karnack, was established near the beginning of World War II as a TNT manufacturing facility (see Figure B-1). From 1942 to 1945, when the facility was placed on standby status, LHAAP produced 414 million pounds of TNT. LHAAP became reactivated for the Korean War and the Vietnam conflict. For each of these operations, millions of pyrotechnic devices were produced. From the mid-1950s to 1980, LHAAP manufactured 50 million pounds of propellant and 200,000 rocket motors. From 1988 to 1991, LHAAP was used for the static firing and elimination of Pershing I and II rocket motors. LHAAP was placed on the Superfund National Priorities List in 1990.

5.1 Soil, ground water, surface water, and sediments have been contaminated by industrial operations and waste management practices at LHAAP. Further, 18 individual source areas, ranging in size from less than 1 acre to 275 acres, have been defined. Organizationally, for the purposes of facilitating an installation-wide ERA, most of the installation's 8,493 acres have been allocated to three terrestrial sub-areas: the Industrial Sub-Area consisting of 2,330 acres; the Waste Sub-Area consisting of 486 acres; and the Low Impact Sub-Area consisting of 3,217 acres (see Figure B-2).

5.2 For the RSA application at LHAAP, three study sites with bona fide contamination, located in the north-central portion of the Industrial Sub-Area, were selected. These sites were the Plant 2 Area, a Wetland Area, and the Goose Prairie Creek Drainage (GPCD) (see Figure B-2). Plant 2 was selected based on the presence of known contamination and modeled excessive HQs that were of concern. The Wetland Area, located on the eastern boundary of the installation and immediately adjacent to Plant 2, was selected because of its likelihood of being contaminated, given that it receives drainage from Plant 2. The GPCD was selected because this

area takes runoff from a number of contaminated sites and because of the significant degree of expressed stakeholder concern. The RSA method generally requires that a study site have a matched reference area. Where site and reference areas truly match in a number of respects (e.g., soil type, vegetative cover, slope, and local climate), the likelihood is high that there will be at least one common small rodent species occurring at the two properties. Additionally, where a good many features are the same for the two properties, ascribing sperm effects in rodents of the study area (should there be any observed) to chemical-in-soil influences is rather defensible. (This is an isomorphic situation to a well-controlled laboratory toxicity study, where the only difference between the test and control groups is the chemical amendment to the diet of the test group.) Figure B-2 also indicates the location of the reference area of the LHAAP RSA study.

5.3 For Plant 2, a young pine plantation was selected as a reference location to match the pine savannah/scrub habitat of this study site. The reference area for GPCD was the wooded area in the installation's northeast corner. A suitable wetland reference could not be located. An attempt, however, was made to trap small rodents at a location on the installation's eastern boundary (see paragraph 7.5).

6. METHODS. Field-applied RSA intends on trapping 15 adult male rodents of at least one species at both a study site and its matched reference location. (Note: Valid statistical comparisons are still possible with less than this desirable number of captures.) Capturing sufficient adult male rodents is ordinarily achieved by saturating a series of 100 meter by 100 meter grids with baited Sherman live traps. Table C-1 summarizes the specifics of the trapping scheme for the LHAAP RSA study areas.

6.1 Small rodent trapping occurred from 12 January to 1 February 2004. All trapped small rodents were examined for overall health condition; identified to sex, species, and approximate age; and then weighed. All captures other than adult males had a small patch of fur at the back of the neck clipped so that recaptures could be identified. Only adult males were brought to the onsite mobile laboratory for an additional weighing and work-up. The analytical procedures for the sperm parameters followed Tannenbaum et al. (reference 4). As with all RSA applications, the LHAAP field effort assembled information other than the sperm parameter measurements (RSA's primary assessment metrics). This information can be categorized as population- and tissue-based. The former includes total animal captures, relative abundance of animals and species, sex ratios, age distribution, and relative trap success. Tissue-based information includes animal body weights, several organ-to-body weight ratios, and a histological examination for kidney, liver, spleen, and epididymis. The population- and tissue-based information can often be used to corroborate the findings of the sperm parameters assessment.

6.2 It is critical to note that RSA focuses on the biological significance of altered sperm parameters more so than it does on statistical significance of sperm parameter differences or differences in other measures such as body weight. A statistically significant change in a measured parameter can often be wrongly interpreted as signifying a health impact (references 7 and 26). A key advantage of the RSA method is that it is rather precisely known how much of a change (from the reference area condition) in the various sperm parameters of study site rodents is indicative of a reproductively compromised condition. It is equally important to note that metrics other than sperm parameters (e.g., organ-to-body weight ratios), as different as they may

be for study site and reference location, cannot be used to identify stress or impact in site receptors. The metrics other than sperm parameters (the so-called secondary assessment metrics) can only support/corroborate observations regarding the primary assessment metrics. Thus, if there were no sperm parameter exceedances in the small rodents of a study site, but organ-to-body weight ratios appeared significantly shifted in the site rodents, the interpretation would again be that the rodents are not reproductively compromised. The skewed organ-to-body weight ratios, likely caused by one or more site contaminants, would be acknowledged in the reporting, but could not be used to say that there is a health concern in terrestrial site biota. This follows from the fact that there is no way to interpret ratio changes in other than a statistical sense, and the recognition that the ratio changes almost assuredly did not first occur in the site biota at the present time which is some 5 decades after LHAAP contaminant releases began.

7. RSA RESULTS. Beginning with paragraph 7.2, the RSA results are reported by the discrete sites that made up this study. All of the raw RSA data (animal captures, body weights, sperm parameters, organ weights and associated ratios, and histopathology assessment) are included in Appendix D, the contractor's Male Reproductive Assessment Report.

7.1 General. The two dominant small rodent species collected at the sites were the Hispid cotton rat (*Sigmodon hispidus*) and the Cotton mouse (*Peromuscus gossypinus*). [Note that additionally, there were captures of just one or two individuals of Golden mouse (*Ochrotomys nuttalli)* and Marsh rice rat (*Oryzomys palustris*). Thus, these species did not figure into the subject analysis.] Total Hispid cotton rat captures at the three study sites matched and sometimes exceeded that of the reference area, providing an overall indication that the contaminated condition of the study sites is not limiting to this species (see Table C-2). The notably reduced number of specimens with sperm parameter evaluations at two of the three study sites reflects the discovery of many Hispid cotton rats that had an adult appearance (size, weight) but lacked sperm entirely. This phenomenon is discussed further below (see Section 8). Cotton mice were not nearly as numerous as the Hispid cotton rats at the study sites or the reference area (Table C-2), and the sperm parameter comparisons for this species (in Tables C-6 through C-8) therefore, are realistically only reliable for one of the sites. It should be noted that it is a frequent occurrence when conducting RSA, that a comparative sperm parameter analysis is possible for only one (i.e., the dominant) rodent species in the study area region. Regarding organ-to-body weight ratios, almost all of these for the Hispid cotton rat were lower at the various study sites. It is important to note that in the aftermath of having applied RSA approximately ten times to date, no firm trend has emerged with regard to organ-to-body weight ratios. Instances of statistically significant differences between study site and reference area animals are rare, and the direction of sperm parameter change in site animals has not been consistent.

7.2 Plant 2 Site. Two of the 17 male Hispid cotton rats captured had body weights that were less than the lowest body weight of any of the reference area animals and were thus eliminated from further evaluation. Only 4 of the remaining 15 animals had sperm, and in keeping to the tenets of RSA (see paragraph 4.5), only the data of these animals appears in Table C-3. Through histological analysis of the testes, 12 of the 15 animals were determined to be sexually immature although their body mass indicated that they should be adult animals. As Table C-3 shows, the sperm count of Plant 2 Hispid cotton rats is considerably higher (approximately 46% higher) than that of reference area animals. The sperm motility in Plant 2 rats was 2.8% less than that of

reference area rats which is far less than the threshold for effect (see paragraph 8.1). There was virtually no difference in sperm morphology between site and reference area animals which is a common finding wherever RSA has been applied to date (unpublished data). As shown in Table C-8, only the organ-to-body weight ratio for the testes was statistically different (lower) for the Hispid cotton rats at Plant 2 (compared to reference animals). Cotton mice captures were too low at Plant 2 to allow for a valid comparison. Comparative Cotton mice sperm parameter data is reported nevertheless in Table C-6 although the data cannot be considered reliable due to the small sample size.

7.3 Goose Prairie Creek Drainage. Hispid cotton rat captures at GPCD were too low to allow for a valid comparison for any of the metrics. It should be noted however though, that the mean sperm count for the two GPCD adult males was much higher than that of the reference area, and the mean motility for the GPCD animals was also higher (12.6%) than in the reference area animals. Corroboration for these results in Hispid cotton rats (i.e., that they are reproductively capable) derives from the data for Cotton mice at GPCD presented in Table C-7. As shown in this table, there were greater adult male captures at GPCD than there were in the reference area. For these adult males, there was only a 6% decrease in the sperm count, and the sperm motility was actually 5% higher at GPCD than at the reference area. The organ-to-body weight ratios for the Hispid cotton rat at GPCD and the reference area are shown in Table C-9. There were no cases of statistically significant difference. The organ-to-body weight ratios for the Cotton mouse are shown in Table C-10. A legitimate qualitative comparison can be made only for the GPCD; the capture numbers do not permit a valid statistical comparison. As previously mentioned, typically in RSA there is only one small rodent species collected in sufficient numbers to support valid analyses and comparisons. In the case of LHAAP, the Hispid cotton rat was the dominant small rodent species.

7.4 Wetland Area. There were 16 male Hispid cotton rats captured at the Wetland Area. One of these animals was obviously immature and it was eliminated from further evaluation. Of the remaining 15 animals, 3 had no sperm despite having body weights within the range of adults captured at the reference area. The sperm parameters comparison of the remaining 12 males and those captured males at the reference area appears in Table C-5. None of the sperm parameter thresholds (see paragraph 8.1) were exceeded. Moreover, the sperm count of the Hispid cotton rats at the Wetland Area is vastly higher (more than double) than the count of the reference area animals. The sperm motility was reduced by 12.7% which is considerably shy of the threshold for effect (see paragraph 8.1). Only the organ-to-body ratio for kidneys was statistically lower. Cotton mouse sperm parameter comparisons are shown in Table C-8. The reader is reminded that the Cotton mouse was not the dominant small rodent species at the LHAAP sites, and that the sample size (n) is too small to support a valid comparison. Qualitatively, it appears that Cotton mice are not reproductively compromised because sperm count and sperm motility is either the same or better at the site than at the reference area.

7.5 Additional Findings. The small rodent trapping at the wetland parcel, initially intended as a reference location for the Wetland Area, resulted in a serendipitous and potentially useful discovery. Microscopic tissue evaluation revealed that all *Peromyscus sp.* males captured at this site had testicular degeneration. Without additional data we are unable to discuss the significance of this finding.

8. DISCUSSION. One of RSA's principal assumptions is that, if after several decades of exposure to contaminated site media animals do not display evidence of reproductive impact, it is reasonable to anticipate that future reproductive impacts will not arise (reference 4). This principal assumption is built on two other assumptions. First, with rodents generally having the maximum and/or worse-case exposures of terrestrial receptors (principally mammals and birds), if rodent reproduction is proceeding adequately, so too should be the case for other terrestrial receptors (i.e., those that have a decidedly lesser degree of contact with the contaminated terrestrial ecosystem than do rodents, and those that cannot be captured and sacrificed for study). Second, tracking reproduction as the only toxicological endpoint, amounts to a sufficiently rigorous assessment scheme. If reproduction should be proceeding adequately at a historically contaminated site as is anticipated (reference 5), this means that animals are able to live until they are sexually mature, find mates, and go on to produce viable young. Additionally, if a species continues to produce viable young at a historically contaminated site (the case at the LHAAP study sites evaluated in this report), this is reasonably interpreted to mean that no biological function other than reproduction (e.g., behavior, neurology) is being compromised to a level of concern. [If a critical biological function *was* being compromised, animals would not be surviving to the present day.]

8.1 RSA is able to arrive at rather definitive determinations of terrestrial receptor health, because it is known how much of a perturbation in the sperm parameters (count, motility, and morphology; all barometers of reproductive health) is needed for there to be a condition of biological/ecological (here, reproductive) compromise. This is unlike the situation for almost all other biological measurements (references 7 and 26). The literature is replete with references to rodents being robustly fertile (references 27-30). Further, because rodents produce 10-20 times more sperm than is necessary to ensure that adequate reproduction proceeds, as much as an 80-90% sperm count reduction is needed before a claim can be made of impaired reproduction at the population level. In the interest of maintaining conservatism when assessing the reproductive condition of field-collected rodents at contaminated sites, USACHPPM, based on supportive peer-reviewed documentation, elects to apply a 60% sperm count reduction as the "trigger" for possible compromised reproduction. The literature also reports that sperm motility needs to be approximately 40-50% reduced from the control condition (here, the sperm motility of the reference area) in order to claim a case of reproductive impact (reference 9). Sperm morphology (abnormality) appears to be the most sensitive of the three sperm parameters; an increase of only 4% from the "control rate" (i.e., the frequency of abnormal sperm occurring in the background, or in the case of LHAAP, the reference area) is enough to conclude that reproductive compromise is occurring (reference 27). At this juncture, it is critical to appreciate RSA's ability to rely on *biological* significance and not to be misled by findings of statistical significance for certain sperm parameter or organ-to-body weight comparisons. By way of example, if there should be a statistically significant sperm count reduction of 50% at a contaminated site (relative to a matched reference location), although the statistical significance informs that the difference is not due to chance, the finding does not indicate that there is reproductive impact occurring. This finding holds true despite the rather striking absolute difference in the sperm counts. In this context, it is important to appreciate how potentially misleading the commonly applied standard of a 20% change in a measure being interpreted to mean that a harmful effect has set in. The

sperm parameter thresholds listed above help to circumvent the common pitfall in ERA studies of wrongly ascribing "impact" where numerical and statistical differences are found.

8.2 In light of the above, it should be noted that none of the sperm parameter thresholds were exceeded for either rodent species, nor were there any statistically significant differences for these comparisons. Several other sperm parameter measures routinely analyzed with RSA include progressive motility, path velocity, curvilinear velocity, straight-line velocity, and beat cross frequency. Although it has not been established that these parameters are barometers of reproductive success (as are count, motility, and abnormality), the finding that there are no statistically significant differences between group means for these ancillary parameters provides corroboration that the reproductive system of the rodents is not ill-effected at the contaminated sites. It is recognized that Hispid cotton rat captures at the GPCD are insufficient for a valid statistical comparison. Nevertheless, the fact that the sperm count is strikingly higher at the GPCD relative to the reference area, as it was for the Hispid cotton rat at both the Plant 2 and Wetland sites (sites where total species captures were *high*), lends corroboration to the higher sperm count at the GPCD being a real value.

8.3 The strikingly higher mean sperm count at the Plant 2 site compared with its reference area deserves particular attention on several scores. First, with some 11 or more adult males captured at the Plant 2 site that did not have sperm, and despite the uncertainty associated with capturing animals over a brief 2-week window, it is rather evident that a subset of the site population is sustaining the overall population (that appears to number as large as the Hispid cotton rat population of the non-contaminated reference area; see Table C-2). Further, it would appear that there is a compensatory effect operating whereby those adult males that are fertile have a bolstered sperm count to (presumably) ensure that the local population will be perpetuated. This observation demonstrates several key points.

- Had the sperm evaluation not taken place, it would not have been known that there is an effect of sorts (albeit, not a serious one; see further discussion) occurring at Plant 2. Although population dynamics cannot be adequately captured in a 1-2 week field-trapping effort, when capture numbers are roughly the same at a site and its matched reference location, it can be concluded that both areas are capable of adequately supporting a species.

- To have included zeros (i.e., zero sperm count values) in the computation of a mean Plant 2 site sperm count would have amounted to a misrepresentation of the site's reproductive biology. When computing a site's mean sperm count, the intention is to average only the sperm counts of those individuals that have the capability to procreate. The adult male rodents that lack sperm cannot contribute reproductively. It is critical to note that even had the 11 zeros been averaged in with the 4 legitimate sperm counts (of the viable specimens trapped at the Plant 2 site), the 60% sperm count reduction threshold previously described (paragraph 8.1) would then only marginally have been reached.

- Realistically, the sizable percentage of the adult male Hispid cotton rat population at the Plant 2 site that lack sperm have the potential to impact reproduction in a way that

would not otherwise be considered. Since these animals have no sperm to contribute and hence cannot allow for population increase, where they nevertheless copulate with females (assuming that this is occurring), they are limiting opportunities for viable adult males to cause fertilizations to occur, because they are occupying the females' time. Given that the population at the Plant 2 site is not depauperate, this concern is probably not a legitimate one.

• Given LHAAP's multiple-decade history of contamination and considering how many generations of receptors have cycled through the site over this period, it is unrealistic to conclude that sterile adult male Hispid cotton rats first appeared at the P2 site in 2004. It would seem much more reasonable to conclude that the phenomenon of there being sterile males at the site has been around for years and was only discovered because the RSA method evaluates sperm.

8.4 The RSA method is designed to assess the reproductive health of field-exposed animals. It is not RSA's task to explain observed aberrations with regard to the reproductive system, such as the substantial number of Hispid cotton rats at Plant 2 that had no sperm. The paragraphs below address some potential causes for this aberration, although the RSA study at LHAAP concluded that there is no compromised reproduction occurring at the P2 site.

8.4.1 Since Plant 2 and the reference area were trapped in the same 3-week time period, sperm count and the number of adult-sized animals that had no sperm would be expected to be similar. Although the literature describes the phenomenon of seasonal senescent breeding periods in rodents, given that reference area rodents did not display the aberration, seasonality is not considered to be the cause.

8.4.2 Certain mammalian species, including rodents, are known to self-regulate population densities by altering reproductive strategy when it is sensed that the population is too large. This alteration could take the form of delayed time (age) to reproduction (references 31-33). Although definitive determinations of rodent population dynamics require repeated trapping efforts, trapping success of a singular event can provide some indication of the relative rodent population densities for the Plant 2 site and its reference area. It was determined that Hispid cotton rat densities were the same on Plant 2 and the reference area (0.03 animals per trap), and this comparison suggests that there is no overarching need at the Plant 2 site for Hispid cotton rats to invoke density-dependent population control (which could take the form of producing males that have no sperm).

8.4.3 It is known that exposure to a number of chemical classes including dioxins, PCBs, pesticides such as DDT, DDE, and DDD, and certain metals can affect functional reproductive development (reference 30). Many of these environmental contaminants are present at Plant 2. It has also been known that exposure to very low doses of dioxins produces infertility in rodent progeny (references 33-37). It is useful to consider organ-to-body weight ratios when considering chemical exposure as a basis for aberrations of the reproductive system, such as occurred at Plant 2. Differences in such ratios are typically used as indicators of chemical exposure. In the case of the Plant 2 site, the only case of statistically significant difference was for the testes which were smaller than at the reference area. This finding though is more of an

indication of a negative reproductive effect than it is an indication of contaminant exposure. Additionally, the histopathological evaluation found no apparent microscopic changes in the tissues examined that could be linked to possible environmental contaminant exposure.

8.5 Shifted or skewed organ-to-body weight ratios are not known to necessarily indicate health effects in rodents. Further, no apparent trend in the direction of shifts in these ratios has emerged over the previous applications of RSA at contaminated sites. By way of example, it is not a given that the liver/body weight ratio will be higher in site versus reference area rodents. As opposed to the sperm parameter system where the biological/ecological meaning of shifts is known, *statistical* differences are all that can be reported for the organ-to-body weight comparisons. However, there were no statistical differences for any of the computed organ-to-body weight ratios. Finally, a note of caution is worthwhile in this context. Where cases of statistical significance might be found for these ratios, which in turn allow for claiming that rodents at site and reference area represent different populations, it is still not known how much of a difference in ratio is biologically significant (see Appendix D).

9. UNCERTAINTY. As with all aspects of risk assessment, the RSA method has several inherent elements of uncertainty. These are presented in the paragraphs below.

9.1 The RSA method assumes that the well-established sperm parameter thresholds for (reproductive) effect hold true for wild-type rodents as they do for laboratory rodents. Based on RSA's favorable assessment in the peer-reviewed literature, RSA's patent pending status, and the willingness on the part of stakeholders to have RSA conducted at several National Priorities List sites, it would appear that the level of uncertainty here is minor.

9.2 Only one small rodent species provided reliable sperm parameter information to support the subject assessment. Although commonly there is only one species that can be trapped in sufficient numbers to form the basis of a site/reference area comparison, it is possible that the sperm parameter exceedances might have been present had a second or a third species been available. The corroborative animal capture data of the LHAAP study, although only reflecting a "snapshot in time," suggests that other rodent species are not reproductively hampered.

9.3 Based on an extrapolation from the small rodent data, the larger, higher trophic level and wider-ranging mammals at LHAAP are reproductively unharmed. Although resources are unavailable to actually know the status of these larger terrestrial receptors (the ones for whom the rodents serve as surrogates), the assumption/extrapolation is probably valid. The larger mammals have a much lesser degree of site (primarily soil) contact (spatially and temporally) than do the rodents. It should also be noted that in traditional ERA, extrapolations from the laboratory responses of rodents to effects in the larger mammals of a site are routinely made. The RSA generates actual response-to-contaminant data for an affected site, and thus moves a critical step closer to understanding the potential for chemically induced effects to arise at contaminated sites.

10. CONCLUSIONS.

10.1 For the Hispid cotton rat (the dominant rodent species present at LHAAP), none of the established sperm parameter thresholds for effect were exceeded at the three study sites. The data are interpreted to mean that reproductive capability is not compromised in maximally exposed terrestrial receptors (small rodents) and by extension in other larger and wider-ranging mammals.

10.2 Corroboration for the finding of successful reproduction in mammals based on sperm parameters is provided by the similarity in total animal captures at the study sites and the reference areas.

10.3 Some Hispid cotton rats at the Plant 2 site were observed to have no sperm. In light of the numerous animal captures, there appears to be no reproductive compromise associated with this observation.

LAWRENCE V. TANNENBAUM
Environmental Scientist
Environmental Health Risk
Assessment Program

REVIEWED BY:

DENNIS E. DRUCK
Section Chief
Environmental Health Risk
Assessment Program

APPROVED BY:

DAVID A. REED, Ph.D., MBA
Program Manager
Environmental Health Risk
Assessment

APPENDIX A

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APPENDIX B

FIGURES

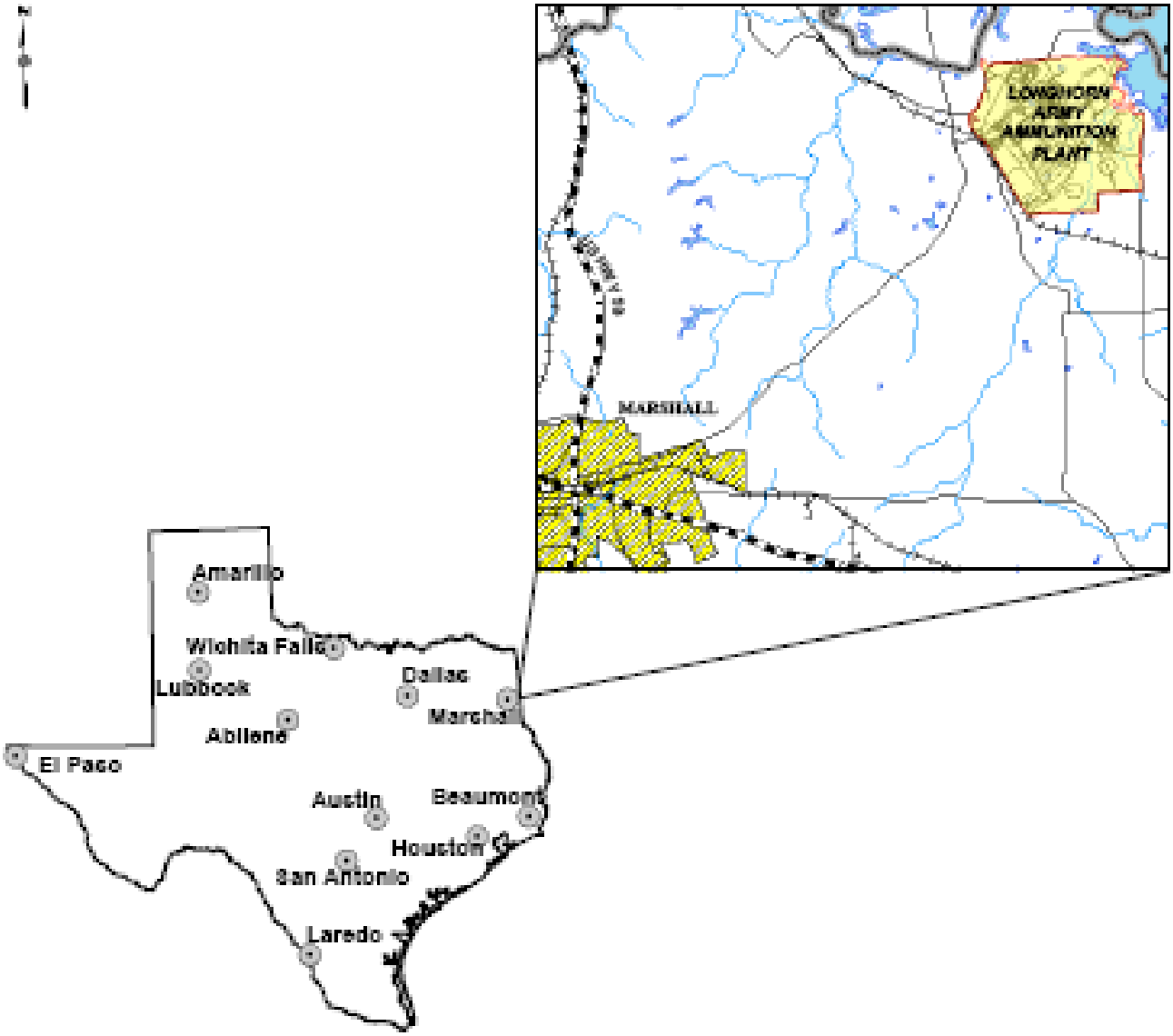

Figure B-1. Location of Longhorn Army Ammunition Plant.

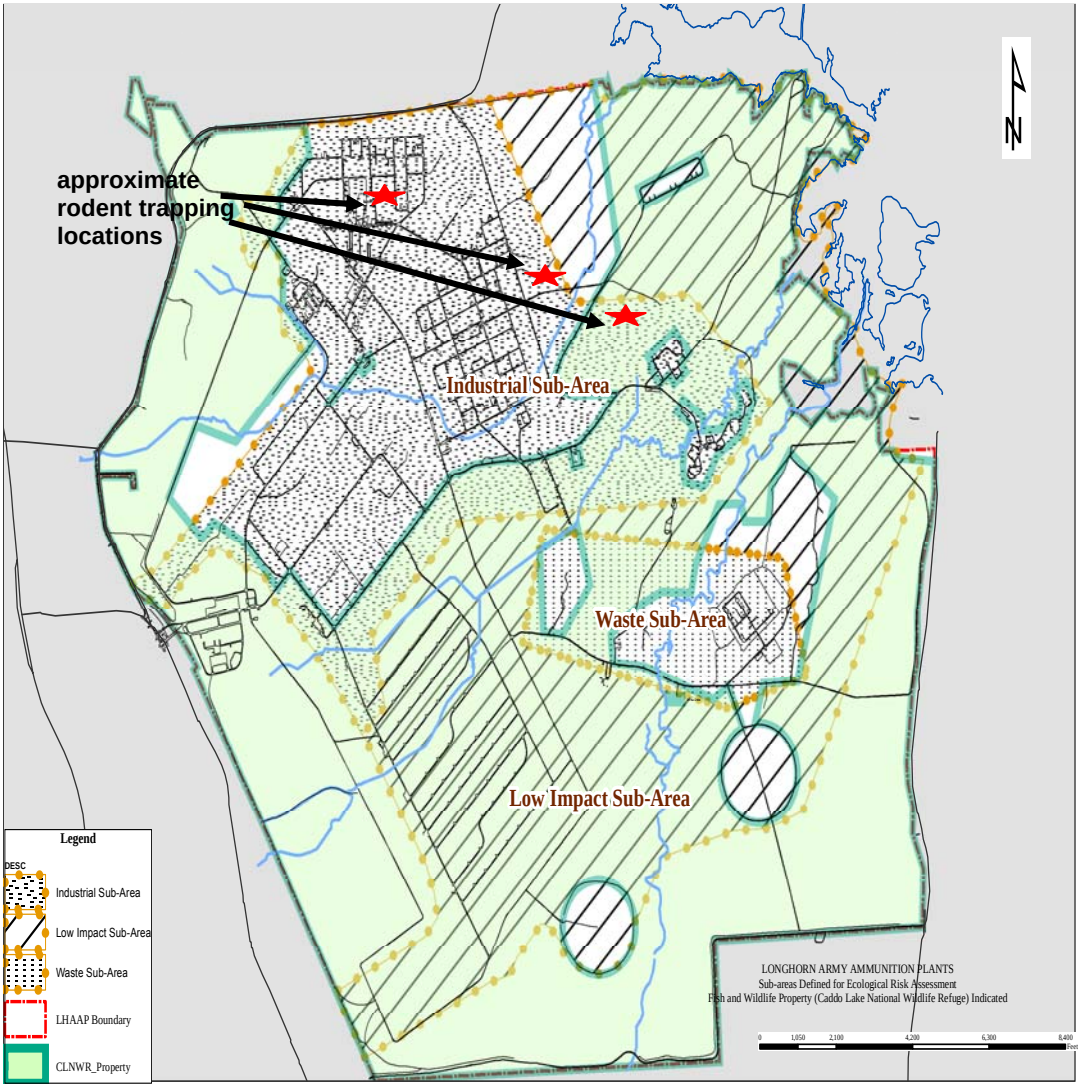

Figure B-2. Longhorn Army Ammunition Plant's Sub-Areas and Rodent Trapping Areas.

APPENDIX C

TABLES

Table C-1. RSA Trapping Scheme at LHAAP (In Support of the Installation-Wide ERA)

Study Site	Number of Grids	Number of Trap Nights
Reference Area	2 - pine savannah habitat 4 - forested habitat 2 - south of installation	900 1200 600
Plant 2	3 - pine savannah habitat 1 - forest habitat	1200 300
Goose Prairie Creek Drainage	4 - bottom land forest habitat 1 - wetland	1200 300
Wetland Area	1*	600

* Only one grid due to the limited size of the area.

Table C-2. Animal Captures* at the LHAAP Study Sites

	Hispid Cotton Rat			Cotton Mouse	
Location	**Males**	**Females**		**Males**	**Females**
Reference Area	15	13		8	17
Plant 2	22	25		1	4
Wetland Area	20	16		3	3
GPCD	3	6		11	10

* Total captures (all ages; recaptures not included).

Table C-3. Sperm Parameter Results for the Assessment of the Plant 2 Site at LHAAP (rodent species: Hispid Cotton Rat, *Sigmodon hispidus*)

	all captured adult males***			only sexually mature adult males	
Parameter*	Plant 2 Site	Reference Area		Plant 2 Site	Reference Area
Epididymal Sperm Count** (10^6 sperm/gram of tissue)	1394.2 n= 4	951.3 n=11		1797.4 n=3	752.3 n=10
Motility** (% motile)	69 n=4	71 n=10		64 n=3	69 n=9
Morphology** (% abnormal sperm)	0.5 n= 2	0.4 n=11		0.5 n=2	0.5 n=10

* all values shown are arithmetic means
** data are not normally distributed (Shapiro-Wilk Test $p<0.05$)
*** having sperm
Means are not significantly different using ANOVA/Duncan's test.
Statistical analyses results were not reported for groups with data from less than two animals.
Sperm parameter thresholds applied at site: 60% count decrease; 40% motility decrease; 4% increase in incidence of morphological abnomalities – all relative to the reference site condition.

Table C-4. Sperm Parameter Results for the Assessment of the Goose Prairie Creek Drainage (GPCD) at LHAAP (rodent species: Hispid Cotton Rat, *Sigmodon hispidus*)

	all captured adult males			only sexually mature adult males	
Parameter*	GPCD	Reference Area		GPCD	Reference Area
Epididymal Sperm Count** (10^6 sperm/gram of tissue)	1275.5 n=2	951.3 n=11		1275.5 n=2	752.3 n=10
Motility** (% motile)	80 n=2	71 n=10		80 n=2	69 n=9
Morphology** (% abnormal sperm)	0.0 n=2	0.4 n=11		0.0 n=2	0.5 n=10

* all values shown are arithmetic means
** data are not normally distributed (Shapiro-Wilk Test $p<0.05$)
Means are not significantly different using ANOVA/Duncan's test.
Statistical analyses results were not reported for groups with data from less than two animals.
All captured adult males at GPCD were sexually mature.
Sperm parameter thresholds applied at site: 60% count decrease; 40% motility decrease; 4% increase in incidence of morphological abnomalities – all relative to the reference site condition.

Table C-5. Sperm Parameter Results for the Assessment of the Wetland Area at LHAAP (rodent species: Hispid Cotton Rat, *Sigmodon hispidus*)

	all captured adult males			only sexually mature adult males	
Parameter*	Wetland	Reference Area		Wetland	Reference Area
Epididymal Sperm Count** (10^6 sperm/gram of tissue)	1987.8 n=12	951.3 n=11		1987.8 n=12	752.3 n=10
Motility** (% motile)	62 n=10	71 n=10		62 n=10	69 n=9
Morphology** (% abnormal sperm)	0.5 n=11	0.4 n=11		0.5 n=11	0.5 n=10

* all values shown are arithmetic means
** data are not normally distributed (Shapiro-Wilk Test $p<0.05$)
Means are not significantly different using ANOVA/Duncan's test.
Statistical analyses results were not reported for groups with data from less than two animals.
All captured adult males at the Wetland Area were sexually mature.
Sperm parameter thresholds applied at site: 60% count decrease; 40% motility decrease; 4% increase in incidence of morphological abnomalities – all relative to the reference site condition.

Table C-6. Sperm Parameter Results for the Assessment of the Plant 2 Site at LHAAP (rodent species: Cotton mouse, *Peromyscus gossypinus*)

	all captured adult males			only sexually mature adult males	
Parameter*	Plant 2 Site	Reference Area		Plant 2 Site	Reference Area
Epididymal Sperm Count** (10^6 sperm/gram of tissue)	2903.9 n=1	3107.3 n=4		2903.9 n-1	3789.7 n=3
Motility** (% motile)	87 n=1	79 n=4		87 n=1	81 n=3
Morphology** (% abnormal sperm)	1.0 n=1	0.5 n=4		1.0 n=1	0.2 n=3

* all values shown are arithmetic means
** data are not normally distributed (Shapiro-Wilk Test $p<0.05$)
Means are not significantly different using ANOVA/Duncan's test.
Statistical analyses results were not reported for groups with data from less than two animals.
All captured adult males at Plant 2 were sexually mature.
Sperm parameter thresholds applied at site: 60% count decrease; 40% motility decrease; 4% increase in incidence of morphological abnomalities – all relative to the reference site condition.

Table C-7. Sperm Parameter Results for the Assessment of the Goose Prairie Creek Drainage (GPCD) at LHAAP (rodent species: Cotton mouse, *Peromyscus gossypinus*)

	all captured adult males			only sexually mature adult males	
Parameter*	GPCD	Reference Area		GPCD	Reference Area
Epididymal Sperm Count** (10^6 sperm/gram of tissue)	2920.1 n=6	3107.3 n=4		2920.1 n=6	3789.7 N=3
Motility** (% motile)	84 n=6	79 n=4		84 n=6	81 N=3
Morphology** (% abnormal sperm)	0.2 n=6	0.5 n=4		0.2 n=6	0.2 N=3

* all values shown are arithmetic means
** data are not normally distributed (Shapiro-Wilk Test $p<0.05$)
Means are not significantly different using ANOVA/Duncan's test.
Statistical analyses results were not reported for groups with data from less than two animals.
All captured adult males at GPCD were sexually mature.
Sperm parameter thresholds applied at site: 60% count decrease; 40% motility decrease; 4% increase in incidence of morphological abnomalities – all relative to the reference site condition.

Table C-8. Sperm Parameter Results for the Assessment of the Wetland Area at LHAAP (rodent species: Cotton mouse, *Peromyscus gossypinus*)

	all captured adult males			only sexually mature adult males	
Parameter*	Wetland	Reference Area		Wetland	Reference Area
Epididymal Sperm Count** (10^6 sperm/gram of tissue)	3566.6 n=2	3107.3 n=4		3566.6 n=2	3789.7 n=3
Motility** (% motile)	88 n=2	79 n=4		88 n=2	81 n=3
Morphology** (% abnormal sperm)	0.3 n=2	0.5 n=4		0.3 n=2	0.2 n=3

* all values shown are arithmetic means
** data are not normally distributed (Shapiro-Wilk Test $p<0.05$)
Means are not significantly different using ANOVA/Duncan's test.
Statistical analyses results were not reported for groups with data from less than two animals.
All captured adult males at the Wetland Area were sexually mature.
Sperm parameter thresholds applied at site: 60% count decrease; 40% motility decrease;
4% increase in incidence of morphological abnomalities – all relative to the reference site condition.

Table C-9. Organ-to-Body Weight Ratios* for the Hispid Cotton Rat at LHAAP

Ratio	**Reference Area**	**Plant 2 Site**	**GPCD**	**Wetland**
liver-to-body weight	4.21 / 4.23	4.21 / 4.32	3.99	3.57 / 3.59
spleen-to-body weight	0.2495 / 0.2483	0.2043 / 0.1911	0.2421	0.2395 / 0.2428
kidneys-to-body weight	0.8217 / 0.8182	0.7595 / 0.7441	0.7192	0.600 / 0.5985**
Left epididymis-to-body weight	0.0744 / 0.0727	0.0486 / 0.0540	0.0519	0.0711 / 0.0745
testes-to-body weight	0.88 / 0.87	0.39 / 0.41**	0.61	0.59 / 0.61

* where two values are shown, the first is for all animals, and the second is for only sexually mature animals
** Statistically different value ($p<0.05$) from the Reference Area

Table C-10. Organ-to-Body Weight Ratios for the Cotton Mouse at LHAAP

Ratio	Reference Area	Plant 2 Site	GPCD	Wetland
liver-to-body weight	3.73	5.4306	4.022	4.393
spleen-to-body weight	0.173	0.2216	0.311	0.378
kidneys-to-body weight	1.400	1.2303	1.348	1.348
Left epididymis-to-body weight	0.291	0.3846	0.388	0.435
testes-to-body weight	2.126	2.2640	3.321	2.891

APPENDIX D

MALE REPRODUCTIVE ASSESSMENT REPORT (MRAR)

00059989

CHARLES RIVER LABORATORIES

Discovery and Development Services
Pathology Associates

MALE REPRODUCTIVE ASSESSMENT REPORT

FOR

REPRODUCTIVE ASSESSMENT OF SMALL RODENTS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX

JANUARY 2004

PREPARED FOR

U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

PREPARED BY

PATHOLOGY ASSOCIATES (PAI)
A DIVISION OF CHARLES RIVER LABORATORIES, INC.

TABLE OF CONTENTS

Section **Page No.**

I. QUALITY ASSURANCE STATEMENT 5

II. MATERIALS AND METHODS 6

A. Sample Collection 6
B. Sperm Motility Evaluation 6
C. Total Sperm Count Determination 7
D. Sperm Morphology Evaluation 7
E. Tissue Histopathological Evaluation 7
F. Statistical Analyses 7

III. RESULTS 7

A. Body and Organ Weights 7
B. Sperm Analysis Parameters 8
C. Microscopic Tissue Evaluation 9

IV. DISCUSSION AND CONCLUSIONS 9

INDEX OF TABLES

Table **Page No.**

1. Summary of Body Weight and Organ Weight to Body Weight Ratio
Hispid Cotton Rat (HCR) – All Animals 11

2. Summary of Body Weight and Organ Weight to Body Weight Ratio
Hispid Cotton Rat (HCR) – Only Sexually Mature Animals 12

3. Summary of Body Weight and Organ to Body Weight Ration
Peromyscus (P) – All Animals 13

4. Summary of Body Weight and Organ to Body Weight Ratio
Peromyscus (P) – Only Sexually Mature Animals 14

5. Summary of Sperm Analysis Parameters
Hispid Cotton Rat (HCR) – All Animals 15

6. Summary of Sperm Analysis Parameters
Hispid Cotton Rat (HCR) – Only Sexually Mature Animals 16

7. Summary of Sperm Analysis Parameters
Peromyscus (P) – All Animals 17

8. Summary of Sperm Analysis Parameters
Peromyscus (P) – Only Sexually Mature Animals 18

9. Summary of Microscopic Histopathological Findings
Hispid Cotton Rat (HCR) 19

10. Summary of Microscopic Histopathological Findings
Peromyscus (P) 20

INDEX OF APPENDICES

Appendix **Page No.**

A. Individual Body and Organ Weight Data
Hispid Cotton Rat (HCR) 21

B. Individual Body and Organ Weight Data
Peromyscus (P) 22

C. Individual Body and Organ Weight Data
Other Species 23

D. Individual Organ Weight to Body Weight Ratio
Hispid Cotton Rat (HCR) 24

E. Individual Organ Weight to Body Weight Ratio
Peromyscus (P) 25

F. Individual Organ Weight to Body Weight Ratio
Other Species 26

G. Individual Sperm Motility and Total Count Data
Hispid Cotton Rat (HCR) 27

H. Individual Sperm Motility and Total Count Data
Peromyscus (P) 28

I. Individual Sperm Motility and Total Count Data
Other Species 29

J. Individual Sperm Morphology Data
Hispid Cotton Rat (HCR) 30

K. Individual Sperm Morphology Data
Peromyscus (P) 31

L. Individual Sperm Morphology Data
Other Species 32

M. Individual Microscopic Evaluation Data for
Liver, Spleen, Kidney and Testes – Hispid Cotton Rat (HCR) 33

N. Individual Microscopic Evaluation Data for
Liver, Spleen, Kidney and Testes – Peromyscus (P) 37

I. QUALITY ASSURANCE STATEMENT

**REPRODUCTIVE ASSESSMENT OF SMALL RODENTS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004**

II. MATERIALS AND METHODS

A. Sample Collection

Oryzomys palustris (Marsh rice rat), *Peromyscus gossypinus* (Cotton mouse), *Sigmodon hispidus* (Hispid cotton rat) and golden mouse, were captured in Sherman live traps from January 14 – 28, 2004. Test areas were identified and described as Plant 2 (P2 – known contaminated site), Wetland (W – wetland site adjacent to P2; potentially contaminated), Goose Prairie (GP – receives drainage from P2; potentially contaminated), Reference (CA – presumed clean) and Wetland Reference (WR – initially presumed clean). Adult male animals were identified and submitted for sperm analysis. All animals submitted for sperm analysis were euthanized with carbon dioxide inhalation and exsanguination. After euthanasia, a terminal body weight for each animal was measured and recorded. For all animals, the abdominal cavity was opened and the reproductive organs exposed. For motility assessment, the epididymis was dissected away from the testis and immediately placed in a petri dish containing 3 mL of a solution consisting of 1% Bovine Serum Albumin dissolved in Phosphate Buffered Saline. The solution was prewarmed to a temperature of approximately 38^{o}C. The epididymis was pierced and a minimum 2-minute period was allowed for the sperm to disperse from the epididymis.

The liver, spleen, kidneys and testes were removed from the body, weighed and preserved in 10% neutral buffered formalin (NBF). The left epididymis was removed and placed on dry ice. The frozen epididymides were transferred to Pathology Associates, A Division of Charles River Laboratories, Inc. and stored frozen at -70^{o}C until evaluation for caudal epididymal sperm count.

B. Sperm Motility Evaluation

Following the dispersal period, a 9 μL sperm sample was obtained from the petri dish and loaded into a 20 μM deep glass chamber (Cell-Vu or Standard Count chamber). The chamber was cover slipped and immediately loaded onto the prewarmed stage of the Hamilton Thorne IVOS automated sperm analyzer. Five fields were automatically selected by the analyzer and each motion image was recorded and stored digitally. The images were subsequently analyzed for percent motility. The percent progressive motility and the sperm motion parameters listed below were also obtained for each animal. The images were permanently stored to optical media.

Motility	The ratio (%) of moving sperm to total sperm present.
Progressive Motility	The ratio (%) of sperm that meet a minimum velocity (75 μM/sec) and a track straightness (45%) criteria to total number of sperm.
Path Velocity (VAP)	Velocity of the average cell path.
Straight-line Velocity (VSL)	Velocity from the beginning of the sperm track to the end of the track.
Curvilinear Velocity (VCL)	Velocity of the actual path (point-to-point).
Beat Cross Frequency (BCF)	The frequency with which the sperm track crosses the sperm path.

C. Total Sperm Count Determination

Each frozen epididymis was removed from the freezer, thawed and the caudal section was trimmed and weighed. The cauda epididymis was homogenized in deionized water and the suspensions were transferred to plastic test tubes and vortexed. A 100 μl sample was transferred to a violet reaction vial containing a Hoechst dye (H33342) which uniquely stains the head of the sperm. A sample of the stained sperm was placed into a 20 μm deep Cell-Vu glass slide which was loaded into the analyzer. Twenty fields were automatically selected by the analyzer for each animal and the number of cauda epididymal sperm determined. The counts reported were adjusted for caudal epididymal weight.

D. Sperm Morphology Evaluation

Two eosin stained slides were prepared for each animal from the epididymis total count preparation. The slides were evaluated and a minimum of 200 sperm cells/animal were examined for morphological development.

E. Tissue Histopathological Evaluation

The preserved tissues (liver, spleen, kidneys and testes) were transferred to PAI, Frederick, MD for processing and evaluation. The tissues were embedded in paraffin, sectioned at approximately five microns, processed to slides stained with hematoxiylin and eosin (H&E), and examined by a veterinary pathologist.

F. Statistical Analyses

Data were analyzed for normality using the Shapiro-Wilk test. The means and standard deviations for the animal body weight data, the organ-to-body weight ratios (as a percent of body weight), the sperm motility and motion data, the total count data and the sperm morphology data were calculated and analyzed by analysis of variance (ANOVA) for all animals and for sexually mature animals (exclusion based upon histopathological findings of immaturity). If a significant effect was seen ($p<0.05$), the Duncan's multiple range test was used for group comparison. Analyses results for groups with less than 2 data points were not reported. Histopathological findings were not statistically analyzed. Statistical analyses were performed using SAS computer programs.

III. RESULTS

A. Body and Organ Weights

Table 1 – 4 (Summary Data)
Appendix A – C (Individual Body and Organ Weight Data)
Appendix D – F (Individual Organ Weight to Body Weight Ratio)

Animal body weight and liver-to-body weight ratio data for the Hispid Cotton Rat (HCR) were not normally distributed when all animals were used. For only sexually mature HCR animals the liver-to-body weight ratio was not normally distributed. The spleen- and testis-to-body weight ratios for the Peromyscus were not normally distributed for data sets, all animals and only sexually mature animals. Normality of distribution was based on the Shapiro-Wilk test.

A statistically significant decrease in the kidney-to-body weight ratio was observed in the

Wetland (W) group compared to both the Reference Area (CA) and Plant 2 (P2) for data sets, all animals and only sexually mature animals. Also, a decrease in the testes-to-body weight ratio was noted in the P2 group compared to the CA group for all animals and only the sexually mature animals. Incidental, though not statistically significant, changes were noted in both data sets, all animals and only sexually mature animals, as an increase in the animal body weight in the Goose Prairie (GP) and Wetland (W) compared to the Reference area (CA), as a decrease in the spleen-to-body weight ratio in the P2 compared to CA, as a decrease in the left epididymis-to-body weight ratio in the GP and P2 compared to CA, and as a decrease in the testes-to-body weight ratio in the GP and W compared to the control. No statistically significant or biologically meaningful differences were noted in the liver-to-body weight ratio for the Hispid Cotton Rat for all animals or for only sexually mature animals compared to the Reference (CA) group. Statistical analyses results for data from the Wetland Reference (WR) area were not reported due to the small sample size (1 animal).

A statistically significant decrease in the testes-to-body weight ratio was noted in the Wetland Reference (WR) compared to the Goose Prairie (GP) group for both Peromyscus data sets, all animals and only sexually mature animals. Also noted for all animals and only sexually mature animals, though not statistically significant, was an increase in the animal body weight for the GP and W areas compared to the Reference (CA) and an increase in the spleen-to-body weight in the GP, W and WR groups compared to the CA. For all animals, an increase in the left epididymis-to-body weight ratio was noted in the GP and W groups compared to CA, while the same parameter was decreased in the WR area compared to the control. When sexually immature animals were excluded, only the WR remained different (decreased) compared to the control. No statistically significant or biologically meaningful differences were noted in the liver-to-body weight or kidneys-to-body weight ratios for the Peromyscus for all animals or for only sexually mature animals compared to the Reference (CA) group. Statistical analyses results for data from the Plant 2 (P2) area were not reported due to the small sample size (1 animal).

B. Sperm Analysis Parameters

Table 5 – 8 (Summary Data)
Appendix G – I (Individual Sperm Motility and Total Count Data)
Appendix J – L (Individual Sperm Morphology Data)

Data for percent motility, percent progressive motility, VAP, VCL, VSL, BCF, epididymal sperm count and percent abnormal sperm (sperm morphology) were not normally distributed for both the Hispid Cotton Rat for all animals and for sexually mature animals. For Peromyscus, the percent motility, percent progressive motility and sperm morphology for all animals and sexually mature animals were not normally distributed. Normality of distribution was based on the Shapiro-Wilk test.

No statistically significant differences were observed between the group means for the sperm analysis parameters examined, including sperm motility, progressive motility, VAP, VCL, VSL, BCF, epididymal sperm count or sperm morphology for both the Hispid Cotton Rat (HCR) and Peromyscus (P) for all animals and for sexually mature animals.

A decrease, though not statistically significant, was noted for all animals and for sexually mature animals in the VAP, VCL and VSL for the W and P2 areas compared to the CA for Hispid Cotton rats. Also noted in all animals and sexually mature animals was a decrease in the BCF for the P2 area compared to the Reference. An incidental increase in the number of sperm per gram of epididymis was noted in the GP, W and P2 areas compared to the CA for all animals and only sexually mature animals. An increase in this parameter is not considered biologically meaningful.

No statistically significant or biologically meaningful differences were noted for the Peromyscus grouped as all animals or only sexually mature for the sperm analysis parameters, including percent motility and progressive motility, VAP, VCL, VSL, BCF, sperm count or sperm morphology.

C. Microscopic Tissue Evaluation

Table 9 and 10 (Summary Data)
Appendix M – N (Individual Organ Microscopic Evaluation Data)

No significant differences in the microscopic findings were noted in the liver, spleen, kidneys and testes of the Hispid Cotton Rat or Peromyscus between the study areas. Incidental, background and/or parasitic findings were noted in the liver and kidneys from each area.

Minimal inflammation and/or hematopoietic cell proliferation is a common background finding in the liver of rodents. Parasitic cysts were noted in livers of 5, 6 and 2 Hispid Cotton Rats (HCR) each in the Reference (CA), Plant 2 (P2) and Wetland (W) areas, respectively. Parasitic cysts were not noted in livers of any Peromyscus. The liver of animal 56 (HCR) in the CA area was characterized by moderate multifocal to coalescing necrosis accompanied by subacute inflammation at the necrotic margins. Capsular fibrin deposits were present in small numbers of animals from most groups. Hair shaft foreign bodies were usually present within the fibrin thrombi but not in every case. It is probable that these lesions resulted from bite wounds and or other means of injury with deposition into the peritoneal space.

Minor variability in splenic size of Hispid Cotton Rats was present and most likely due to sectioning as well as differences related predominantly to white pulp expansion and blood volume. All the spleens were considered within normal limits with respect to the above mentioned changes. Variation in splenic size in groups of Peromyscus resulted from increased extramedullary hematopoiesis in animals 64 and 65. Capsular fibrin deposits were present and occasionally accompanied by mesothelial cell hyperplasia. Similar to the liver, this most likely resulted from injury.

Inflammation and degenerative kidney tubular changes, common in rodents, were present in HCR in both Reference and Impact areas. Similar, changes occurred in the Peromyscus population but the incidence was reduced most likely because of the lower number of samples.

Variability in testicular size was present among rodents in all test areas. Reduction in testicular size appeared to correlate with reduced spermatogenesis, and in the absence of degenerative changes is suggestive of immaturity.

There are no apparent microscopic changes in the tissues examined that can be directly linked to exposure to possible environmental contaminants.

IV. DISCUSSION AND CONCLUSIONS

Statistically significant decreases, possibly related to exposure to environmental contaminants, were noted in the known contaminated site (Plant 2 – P2) for testis-to-body weight ratio, and in the potentially contaminated site, Wetland (W), for kidney-to-body weight ratio for the Hispid Cotton rat (HCR) compared to the Reference control (CA). Other changes that may be the result of exposure to environmental contaminants, although the degree of contamination at the Goose Prairie (GP), Wetland (W) and Wetland Reference (WR) is not known, are an increase in body weight in the GP and W animals, and a decrease in the spleen-to-body weight ratio in the P2 animals, in the left epididymis-to-body weight ratio in the GP and P2 animals, in the testes-to-body weight ratio for the GP and W animals, in the BCF for the P2 animals and decreases in the VAP, VCL and CSL for animals in the W and P2 groups, compared to the control. There were no apparent difference between the GP, W, P2 and WR groups and the reference (CA) for liver-to-body weight ratio, sperm motility, progressive motility, epididymal sperm count and sperm morphology for sexually mature Hispid Cotton rats.

Differences in the Peromyscus data from sexually mature animals, though not statistically significant, were noted between the study groups and the Reference control and may be related to

exposure to environmental contaminants. The animal body weight was increased for the animals in the GP and W areas. The spleen-to-body weight ratio was increased in the GP, W and WR areas, the left epididymis-to-body weight ratio was decreased in the WR area, and the testes-to-body weight ratio was decreased in the W and WR areas, compared to the Reference (CA) area. There were no apparent differences between the GP and W areas compared to the Reference (CA) for the sperm motility, progressive motility, VAP, VCL, VSL, BCF, epididymal sperm count and sperm morphology for sexually mature Peromyscus. There were an insufficient number of animals in the P2 (known contaminated) area for data to be statistically analyzed.

_____ _____
Jeffrey A. Smith, M.S. Date
Senior Staff Scientist
Developmental and Reproductive Toxicology
Pathology Associates
A Division of Charles River Laboratories, Inc.

_____ _____
Michael D. Mercieca, B.S. Date
Reproductive Biologist
Director, Developmental and
Reproductive Toxicology
Pathology Associates
A Division of Charles River Laboratories, Inc.

_____ _____
David N. Peters, DVM, Ph.D. Date
Pathologist
Pathology Associates
A Division of Charles River Laboratories, Inc.

US ARMY - LAAP
JANUARY 2004

TABLE 1

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF BODY WEIGHT AND ORGAN WEIGHT TO BODY WEIGHT RATIO

HCR (Hispid Cotton Rat)

ALL ANIMALS

AREA GROUPING:		CA	GP	W	P2	WR
ANIMAL BODY WEIGHT (BW) * (grams)	MEAN	112.7	139.8	134.7	105.7	80.9
	SD	24.4	28.6	32.3	24.1	-
	N	13	2	15	19	1
LIVER/BW RATIO * (% of Body Weight)	MEAN	4.21	3.99	3.57	4.21	4.80
	SD	0.59	0.36	0.33	0.68	-
	N	13	2	14	19	1
SPLEEN/BW RATIO (% of Body Weight)	MEAN	0.2495	0.2421	0.2395	0.2043	0.2023
	SD	0.0772	0.1600	0.0423	0.0507	-
	N	13	2	14	19	1
KIDNEYS/BW RATIO (% of Body Weight)	MEAN	0.8217**a**	0.7192**ab**	0.6003**b**	0.7595**a**	0.8024
	SD	0.0955	0.0515	0.0525	0.0912	-
	N	13	2	14	19	1
LEFT EPIDIDYMIS/BW RATIO (% of Body Weight)	MEAN	0.0744	0.0519	0.0711	0.0486	0.0535
	SD	0.0176	0.0204	0.0279	0.0220	-
	N	13	2	14	18	1
TESTES/BW RATIO (% of Body Weight)	MEAN	0.88**a**	0.61**ab**	0.59**ab**	0.39**b**	0.27
	SD	0.23	0.16	0.20	0.22	-
	N	13	2	14	19	1

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS WITH THE SAME LETTER ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 2

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF BODY WEIGHT AND ORGAN WEIGHT TO BODY WEIGHT RATIO

HCR (Hispid Cotton Rat)

ONLY SEXUALLY MATURE ANIMALS

AREA GROUPING:		CA	GP	W	P2	WR
ANIMAL BODY WEIGHT (BW) (grams)						
	MEAN	112.7	139.8	141.4	113.7	80.9
	SD	24.4	28.6	29.0	24.7	-
	N	13	2	13	12	1
LIVER/BW RATIO * (% of Body Weight)						
	MEAN	4.21	3.99	3.59	4.27	4.80
	SD	0.59	0.36	0.34	0.82	-
	N	13	2	13	12	1
SPLEEN/BW RATIO (% of Body Weight)						
	MEAN	0.2495	0.2421	0.2428	0.1921	0.2023
	SD	0.0772	0.1600	0.0421	0.0489	-
	N	13	2	13	12	1
KIDNEYS/BW RATIO (% of Body Weight)						
	MEAN	0.8217**a**	0.7192**ab**	0.5985**b**	0.7460**a**	0.8024
	SD	0.0955	0.0515	0.0542	0.0629	-
	N	13	2	13	12	1
LEFT EPIDIDYMIS/BW RATIO (% of Body Weight)						
	MEAN	0.0744	0.0519	0.0745	0.0540	0.0535
	SD	0.0176	0.0204	0.0260	0.0262	-
	N	13	2	13	11	1
TESTES/BW RATIO (% of Body Weight)						
	MEAN	0.88**a**	0.61**ab**	0.61**ab**	0.43**b**	0.27
	SD	0.23	0.16	0.19	0.28	-
	N	13	2	13	12	1

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS WITH THE SAME LETTER ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 3

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF BODY WEIGHT AND ORGAN WEIGHT TO BODY WEIGHT RATIO

P (Peromyscus)

ALL ANIMALS

AREA GROUPING:		CA	GP	W	P2	WR
ANIMAL BODY WEIGHT (BW) (grams)						
	MEAN	23.9	30.0	29.2	28.0	24.8
	SD	4.7	5.1	7.3	-	5.4
	N	6	7	3	1	9
LIVER/BW RATIO (% of Body Weight)						
	MEAN	3.73	4.02	4.39	5.43	4.09
	SD	0.64	1.05	0.70	-	0.69
	N	5	7	3	1	6
SPLEEN/BW RATIO * (% of Body Weight)						
	MEAN	0.1726	0.3108	0.3757	0.2216	0.2612
	SD	0.0599	0.2404	0.3476	-	0.0808
	N	5	7	3	1	6
KIDNEYS/BW RATIO (% of Body Weight)						
	MEAN	1.3993	1.3482	1.3478	1.2303	1.2016
	SD	0.3451	0.1549	0.1699	-	0.0752
	N	5	7	3	1	6
LEFT EPIDIDYMIS/BW RATIO (% of Body Weight)						
	MEAN	0.2908	0.3877	0.4352	0.3846	0.1284
	SD	0.2135	0.2035	0.0340	-	0.0525
	N	5	7	2	1	5
TESTES/BW RATIO * (% of Body Weight)						
	MEAN	2.13**ab**	2.90**a**	2.11**ab**	2.26	0.60**b**
	SD	1.31	1.23	1.36	-	0.42
	N	5	7	3	1	5

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS WITH THE SAME LETTER ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 4

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF BODY WEIGHT AND ORGAN WEIGHT TO BODY WEIGHT RATIO

P (Peromyscus)

ONLY SEXUALLY MATURE ANIMALS

AREA GROUPING:		CA	GP	W	P2	WR
ANIMAL BODY WEIGHT (BW) (grams)						
	MEAN	26.9	30.0	29.2	28.0	25.4
	SD	3.7	5.1	7.3	-	4.4
	N	3	7	3	1	5
LIVER/BW RATIO (% of Body Weight)						
	MEAN	3.56	4.02	4.39	5.43	3.88
	SD	0.84	1.05	0.70	-	0.48
	N	3	7	3	1	5
SPLEEN/BW RATIO * (% of Body Weight)						
	MEAN	0.1434	0.3108	0.3757	0.2216	0.2651
	SD	0.0530	0.2404	0.3476	-	0.0897
	N	3	7	3	1	5
KIDNEYS/BW RATIO (% of Body Weight)						
	MEAN	1.4121	1.3482	1.3478	1.2303	1.1907
	SD	0.1805	0.1549	0.1699	-	0.0785
	N	3	7	3	1	5
LEFT EPIDIDYMIS/BW RATIO (% of Body Weight)						
	MEAN	0.4199	0.3877	0.4352	0.3846	0.1321
	SD	0.1576	0.2035	0.0340	-	0.0599
	N	3	7	2	1	4
TESTES/BW RATIO * (% of Body Weight)						
	MEAN	2.94**a**	2.90**a**	2.11**ab**	2.26	0.63**b**
	SD	0.84	1.23	1.36	-	0.48
	N	3	7	3	1	4

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 5

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF SPERM ANALYSIS PARAMETERS

HCR (Hispid Cotton Rat)

ALL ANIMALS

AREA GROUPING:		CA	GP	W	P2
MOTILITY *					
(% MOTILE)					
	MEAN	71	80	62	69
	SD	23	2	30	30
	N	10	2	10	4
PROGRESSIVE MOTILITY *					
(% PROGRESSIVELY MOTILE)					
	MEAN	62	73	54	55
	SD	26	3	30	38
	N	10	2	10	4
VAP *					
(μm/sec)					
	MEAN	177.9	170.2	153.7	128.7
	SD	36.7	25.5	41.4	86.0
	N	10	2	10	4
VCL *					
(μm/sec)					
	MEAN	316.0	295.7	262.9	236.0
	SD	46.2	20.2	48.4	161.9
	N	10	2	10	4
VSL *					
(μm/sec)					
	MEAN	150.5	142.9	129.5	112.4
	SD	36.8	27.5	47.0	76.1
	N	10	2	10	4
BCF *					
	MEAN	39.7	38.1	38.8	31.2
	SD	3.7	5.9	6.4	10.7
	N	10	2	10	4
EPIDIDYMAL SPERM COUNT *					
(10^6 SPERM/GRAM OF TISSUE)					
	MEAN	951.3	1275.5	1987.8	1394.2
	SD	740.5	1141.7	1350.9	1015.9
	N	11	2	12	4
MORPHOLOGY[b] *					
(% ABNORMAL SPERM)					
	MEAN	0.4	0.0	0.5	0.5
	SD	0.6	0.0	0.6	0.7
	N	11	2	11	2

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference
[b]MEAN AND STANDARD DEVIATIONS WERE CALCULATED USING THE TOTAL NUMBER OF ABNORMAL SPERM AS A PERCENTAGE OF THE NUMBER OF SPERM EXAMINED.

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 6

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF SPERM ANALYSIS PARAMETERS

HCR (Hispid Cotton Rat)

ONLY SEXUALLY MATURE ANIMALS

AREA GROUPING:		CA	GP	W	P2
MOTILITY *					
(% MOTILE)					
	MEAN	71	80	62	69
	SD	23	2	30	30
	N	10	2	10	4
PROGRESSIVE MOTILITY *					
(% PROGRESSIVELY MOTILE)					
	MEAN	62	73	54	55
	SD	26	3	30	38
	N	10	2	10	4
VAP *					
(μm/sec)					
	MEAN	177.9	170.2	153.7	128.7
	SD	36.7	25.5	41.4	86.0
	N	10	2	10	4
VCL *					
(μm/sec)					
	MEAN	316.0	295.7	262.9	236.0
	SD	46.2	20.2	48.4	161.9
	N	10	2	10	4
VSL *					
(μm/sec)					
	MEAN	150.5	142.9	129.5	112.4
	SD	36.8	27.5	47.0	76.1
	N	10	2	10	4
BCF *					
	MEAN	39.7	38.1	38.8	31.2
	SD	3.7	5.9	6.4	10.7
	N	10	2	10	4
EPIDIDYMAL SPERM COUNT *					
(10^6 SPERM/GRAM OF TISSUE)					
	MEAN	951.3	1275.5	1987.8	1394.2
	SD	740.5	1141.7	1350.9	1015.9
	N	11	2	12	4
MORPHOLOGY[b] *					
(% ABNORMAL SPERM)					
	MEAN	0.4	0.0	0.5	0.5
	SD	0.6	0.0	0.6	0.7
	N	11	2	11	2

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference
[b]MEAN AND STANDARD DEVIATIONS WERE CALCULATED USING THE TOTAL NUMBER OF ABNORMAL SPERM AS A PERCENTAGE OF THE NUMBER OF SPERM EXAMINED.

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 7

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF SPERM ANALYSIS PARAMETERS

P (Peromyscus)

ALL ANIMALS

AREA GROUPING:		CA	GP	W	P2	WR
MOTILITY *						
(% MOTILE)						
	MEAN	79	84	88	87	28
	SD	17	12	2	-	-
	N	4	6	2	1	1
PROGRESSIVE MOTILITY *						
(% PROGRESSIVELY MOTILE)						
	MEAN	70	75	80	79	17
	SD	17	11	6	-	-
	N	4	6	2	1	1
VAP						
(μm/sec)						
	MEAN	122.6	141.8	119.2	145.4	101.2
	SD	15.9	26.4	9.1	-	-
	N	4	6	2	1	1
VCL						
(μm/sec)						
	MEAN	240.2	267.9	252.6	284.3	185.6
	SD	29.7	44.1	19.7	-	-
	N	4	6	2	1	1
VSL						
(μm/sec)						
	MEAN	99.5	120.5	95.9	119.5	84.6
	SD	12.3	23.2	13.2	-	-
	N	4	6	2	1	1
BCF						
	MEAN	26.5	29.1	24.6	28.5	35.4
	SD	2.5	3.1	1.6	-	-
	N	4	6	2	1	1
EPIDIDYMAL SPERM COUNT						
(10^6 SPERM/GRAM OF TISSUE)						
	MEAN	3107.3	2920.1	3566.6	2903.9	861.6
	SD	2324.0	1456.4	1212.8	-	29.3
	N	4	6	2	1	2
MORPHOLOGY[b] *						
(% ABNORMAL SPERM)						
	MEAN	0.5	0.2	0.3	1.0	1.0
	SD	0.7	0.4	0.4	-	-
	N	4	6	2	1	1

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference
[b]MEAN AND STANDARD DEVIATIONS WERE CALCULATED USING THE TOTAL NUMBER OF ABNORMAL SPERM AS A PERCENTAGE OF THE NUMBER OF SPERM EXAMINED.

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 8

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF SPERM ANALYSIS PARAMETERS

P (Peromyscus)

ONLY SEXUALLY MATURE ANIMALS

AREA GROUPING:		CA	GP	W	P2	WR
MOTILITY *						
(% MOTILE)						
	MEAN	81	84	88	87	28
	SD	20	12	2	-	-
	N	3	6	2	1	1
PROGRESSIVE MOTILITY *						
(% PROGRESSIVELY MOTILE)						
	MEAN	71	75	80	79	17
	SD	20	11	6	-	-
	N	3	6	2	1	1
VAP						
(μm/sec)						
	MEAN	118.2	141.8	119.2	145.4	101.2
	SD	16.4	26.4	9.1	-	-
	N	3	6	2	1	1
VCL						
(μm/sec)						
	MEAN	234.7	267.9	252.6	284.3	185.6
	SD	33.7	44.1	19.7	-	-
	N	3	6	2	1	1
VSL						
(μm/sec)						
	MEAN	95.9	120.5	95.9	119.5	84.6
	SD	12.2	23.2	13.2	-	-
	N	3	6	2	1	1
BCF						
	MEAN	26.1	29.1	24.6	28.5	35.4
	SD	2.8	3.1	1.6	-	-
	N	3	6	2	1	1
EPIDIDYMAL SPERM COUNT						
(10^6 SPERM/GRAM OF TISSUE)						
	MEAN	3789.7	2920.1	3566.6	2903.9	840.8
	SD	2332.4	1456.4	1212.8	-	-
	N	3	6	2	1	1
MORPHOLOGY[b] *						
(% ABNORMAL SPERM)						
	MEAN	0.2	0.2	0.3	1.0	1.0
	SD	0.3	0.4	0.4	-	-
	N	3	6	2	1	1

CA = Reference Area // GP = Goose Prairie // W = Wetland // P2 = Plant 2 // WR = Wetland Reference
[b]MEAN AND STANDARD DEVIATIONS WERE CALCULATED USING THE TOTAL NUMBER OF ABNORMAL SPERM AS A PERCENTAGE OF THE NUMBER OF SPERM EXAMINED.

*DATA ARE NOT NORMALLY DISTRIBUTED (SHAPIRO-WILK TEST $p < 0.05$).
MEANS ARE NOT SIGNIFICANTLY DIFFERENT USING ANOVA/DUNCAN'S TEST.
STATISTICAL ANALYSES RESULTS WERE NOT REPORTED FOR GROUPS WITH DATA FROM LESS THAN 2 ANIMALS.

US ARMY - LAAP
JANUARY 2004

TABLE 9

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF MICROSCOPIC HISTOPATHOLOGICAL FINDINGS

HCR (Hispid Cotton Rat)

AREA GROUPING[a]:	CA	W	P2
NUMBER OF ANIMALS	**12**	**12**	**12**
LIVER (EXAMINED)	(12)	(12)	(12)
NORMAL	0	0	0
INFLAMMATION SUBACUTE	11	10	11
INFLAMMATION MONONUCLEAR, PORTAL	0	1	0
HEMATOPOIETIC CELL PROLIFERATION	0	6	2
PROTOZOAL CYST	4	2	5
CESTODE CYST	2	0	1
NECROSIS, HEPATOCELLULAR	1	0	0
BILIARY HYPERPLASIA	1	1	0
GRANULOMATOUS INFLAMMATION, CAPSULE	0	1	0
CAPSULAR FIBRIN DEPOSIT	1	2	2
CAPSULAR FOREIGN BODY/S	0	3	3
CAPSULAR FIBRIN TAG	2	0	0
PELOSIS	0	0	1
SPLEEN (EXAMINED)	(12)	(12)	(12)
NORMAL	11	10	10
INCREASED EXTRMEDULLARY HEMATOPOIESIS	0	1	0
MESOTHELIAL HYPERTROPHY/HYPERPLASIA	0	0	1
CAPSUAR FIBRIN DEPOSIT	1	1	2
KIDNEY (EXAMINED)	(12)	(12)	(12)
NORMAL	1	2	1
DEGENERATION/REGENERATION, TUBULAR	11	5	7
TUBULAR DILATION	0	1	0
EPITHELIAL ATTENUATION	0	1	0
THICKENING BASEMENT MEMBRANE	1	0	0
INFLAMMATION MONONUCLEAR, INTERSTITIAL	6	6	5
INFLAMMATION MONONUCLEAR, PELVIS	2	8	3
INFLAMMATION SUBACUTE, INTERSTITIAL	4	1	0
INFLAMMATION CHRONIC	5	1	2
MINERALIZATION	2	6	4
CAPSULAR FIBRIN DEPOSIT	0	0	0
CAPSULAR FOREIGN BODY/S	0	0	0
TESTES (EXAMINED)	(12)	(12)	(12)
NORMAL	11	11	4
DEGENERATION, SEMINIFEROUS TUBULES	1	0	0
MINERALIZATION, SEMINIFEROUS TUBULES	1	0	0
IMMATURE	0	1	7
MULTINUCLEATED SPERMATIDS	0	0	1

[a]HISPID COTTON RAT NOT FOUND AT SITES GP AND WR
INCIDENCE OF FINDINGS NOT STATISTICALLY ANALYZED.

US ARMY - LAAP
JANUARY 2004

TABLE 10

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

SUMMARY OF MICROSCOPIC HISTOPATHOLOGICAL FINDINGS

P (Peromyscus)

AREA GROUPING[a]:	CA	GP	WR
NUMBER OF ANIMALS	**4**	**7**	**2**
LIVER (EXAMINED)	(4)	(7)	(2)
NORMAL	2	1	0
INFLAMMATION SUBACUTE	1	2	2
INFLAMMATION MONONUCLEAR, PORTAL	0	1	1
HEMATOPOIETIC CELL PROLIFERATION	1	4	0
CAPSULAR FIBRIN DEPOSIT	1	0	0
CAPSULAR FIBRIN TAG	0	1	0
SPLEEN (EXAMINED)	(4)	(7)	(2)
NORMAL	4	5	0
INCREASED EXTRMEDULLARY HEMATOPOIESIS	0	2	0
HEMATOPOIETIC CELL PROLIFERATION, PEDICLE	0	0	1
MESOTHELIAL HYPERTROPHY/HYPERPLASIA	0	0	1
KIDNEY (EXAMINED)	(4)	(7)	(2)
NORMAL	2	4	0
DEGENERATION/REGENERATION, TUBULAR	1	1	0
INFLAMMATION MONONUCLEAR, INTERSTITIAL	1	1	1
INFLAMMATION MONONUCLEAR, PELVIS	1	2	0
INFLAMMATION CHRONIC	0	0	1
MINERALIZATION	1	0	0
CAPSULAR FIBRIN DEPOSIT	0	1	0
CAPSULAR FOREIGN BODY/S	0	1	0
TESTES (EXAMINED)	(4)	(6)	(2)
NORMAL	2	6	0
IMMATURE	2	0	1
SUBACUTE INFLAMMATION, PERIVASCULAR	0	0	1

[a]PEROMYSCUS NOT FOUND AT SITES P2 AND W
INCIDENCE OF FINDINGS NOT STATISTICALLY ANALYZED.

US ARMY - LAAP
JANUARY 2004

APPENDIX A

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL BODY AND ORGAN WEIGHT DATA

HCR (Hispid Cotton Rat)

UNIQUE ANIMAL ID	ANIMAL ID	ANIMAL WEIGHT	LIVER WEIGHT	SPLEEN WEIGHT	KIDNEY WEIGHT	LEFT EPIDIDYMIS WEIGHT	TESTES WEIGHT
CA AREA (REFERENCE AREA)							
50	HCR-CA-5-55	132.8504	5.3448	0.4236	0.9205	0.1086	0.9224
51	HCR-CA-5-38	151.9492	6.0701	0.3885	1.1511	0.1227	1.2909
52	HCR-CA-5-31	88.4430	4.1889	0.2709	0.8590	0.0654	0.9302
53	HCR-CA-6-14	77.9168	3.4978	0.1467	0.6589	0.0424	0.4384
55	HCR-CA-5-18	140.9278	5.6173	0.3729	1.2172	0.1329	1.3654
56	HCR-CA-5-20	87.7676	4.7585	0.2903	0.7891	0.0695	0.7117
57	HCR-CA-5-62	124.7813	4.6637	0.3872	0.9517	0.1070	0.8376
58	HCR-CA-5-67	81.4824	3.3735	0.1216	0.6465	0.0262	0.5840
59	HCR-CA-5-86	134.8589	6.1786	0.2919	0.9662	0.1360	1.7652
76	HCR-CA-9-66	101.4425	4.9125	0.3791	0.7371	0.0628	0.6163
77	HCR-CA-9-55	105.6562	4.1206	0.2499	1.0580	0.0758	1.2363
81	HCR-CA-9-58	111.6648	4.1858	0.1902	0.9515	0.0817	1.0849
83	HCR-CA-9-90	125.8995	3.9693	0.1544	1.0063	0.0968	1.3538
GP AREA (GOOSE PRAIRIE)							
82	HCR-GP-5-90	160.0622	6.7896	0.5686	1.2095	0.0600	0.7914
84	HCR-GP-5-13	119.6305	4.4711	0.1543	0.8168	0.0793	0.8640
W AREA (WETLAND)							
12	HCR-W-1-64	145.9685	5.2316	0.3612	0.8230	0.1370	0.8939
13	HCR-W-1-65	98.8807**c**	SEXUALLY IMMATURE; TISSUES DISCARDED.				
21	HCR-W-1-30	136.9395	5.2020	0.4282	0.9301	0.1212	0.8891
22	HCR-W-1-44	180.8062	6.3162	0.3414	0.9009	0.1105	0.8869
23	HCR-W-1-62	126.5639	4.2861	0.3031	0.7669	0.0874	0.4235
24	HCR-W-1-67		SEXUALLY IMMATURE; TISSUES DISCARDED.				
27	HCR-W-1-30	181.3507	6.3003	0.4433	1.0677	0.1655	1.2328
28	HCR-W-1-44	171.8032	7.1320	0.4808	1.0673	0.2419	1.5543
29	HCR-W-1-52	114.5298	4.9368	0.2456	0.7073	0.0614	0.4427
30	HCR-W-1-64	131.4403	4.2555	0.3264	0.7447	0.1091	0.9408
60**b**	HCR-W-2-19	82.5691	2.7376	0.1623	0.5154	0.0232	0.2304
61	HCR-W-2-20	162.0575	5.3337	0.2749	0.8310	0.0904	1.0997
62	HCR-W-2-39	164.5401	5.9004	0.4865	1.0886	0.1274	1.3451
63	HCR-W-2-49	89.7931	3.1468	0.1769	0.5392	0.0373	0.3689
69	HCR-W-2-30	112.1235	3.5369	0.2749	0.6739	0.0644	0.4577
70	HCR-W-2-50	120.9061	4.4520	0.3308	0.8013	0.0659	1.0218
P2 AREA (PLANT 2)							
33	HCR-P2-3-3	91.1138	3.1042	0.2012	0.5915	0.0428	0.0998
34	HCR-P2-3-50	105.7114	3.9364	0.1630	0.7515	0.0452	0.3510
35**b**	HCR-P2-3-37	122.0543	4.8504	0.2316	0.7375	0.0361	0.4171
36**b**	HCR-P2-3-3	103.5875	3.5604	0.1736	0.6696	0.0546	0.2816
37	HCR-P2-3-47	96.2957	4.3160	0.2278	0.6900	a	0.1827
38	HCR-P2-3-97	98.1192	3.6502	0.1702	0.8050	0.0364	0.2596
39	HCR-P2-1-91	142.3586	5.5170	0.1357	1.0473	0.0738	0.6928
40	HCR-P2-1-94	88.6217	3.7921	0.2342	0.6969	0.0338	0.1366
41	HCR-P2-1-96	97.1571	4.2302	0.2070	0.6703	0.0290	0.3451
46	HCR-P2-3-47	139.1789	6.1612	0.3503	1.0162	0.1479	1.1528
47**b**	HCR-P2-3-79	75.8353	3.5110	0.2089	0.6043	0.0371	0.2310
66	HCR-P2-2-37	84.7161	3.3433	0.1409	0.6202	0.0528	0.2448
67**b**	HCR-P2-2-81	71.3378	3.0162	0.1549	0.7124	0.0273	0.2401
71**b**	HCR-P2-2-37	86.6328	3.6204	0.1696	0.7150	0.0348	0.2521
72**b**	HCR-P2-2-68	130.2336	4.8495	0.2642	0.9985	0.0707	0.8706
74	HCR-P2-2-12	138.3082	6.6199	0.1996	1.0033	0.0363	0.6852
79**b**	HCR-P2-5-44	94.2919	3.9192	0.2089	0.7718	0.0260	0.3504
80**b**	HCR-P2-5-86	91.3177	3.6966	0.2822	0.7201	0.0388	0.2682
85	HCR-P2-5-71	152.0737	9.9394	0.2769	1.3513	0.1501	1.5008
WR AREA (WETLAND REFERENCE)							
17	HCR-WR-1-93	80.9180	3.8804	0.1637	0.6493	0.0433	0.2223

a=LEFT EPIDIDYMIS WEIGHT NOT RECORDED.
b=ANIMAL IMMATURE BASED ON HISTOPATHOLOGICAL EVALUATION OF THE TESTIS.
c=EXCLUDED FROM SEXUALLY MATURE ANALYSIS.

US ARMY - LAAP
JANUARY 2004

APPENDIX B

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL BODY AND ORGAN WEIGHT DATA

P (Peromyscus)

UNIQUE ANIMAL ID	ANIMAL ID	ANIMAL WEIGHT	LIVER WEIGHT	SPLEEN WEIGHT	KIDNEY WEIGHT	LEFT EPIDIDYMIS WEIGHT	TESTES WEIGHT
CA AREA (REFERENCE AREA)							
2	P-CA-3-32	25.4425	1.0610	0.0277	0.4113	0.1188	0.8866
8	P-CA-3-86	16.7807**d**	SEXUALLY IMMATURE; TISSUES DISCARDED.				
14	P-CA-3-32	31.0016	0.8080	0.0634	0.3953	0.1701	1.0400
48	P-CA-2-3	24.1178	0.9432	0.0282	0.3243	0.0589	0.4751
49**c**	P-CA-2-87	21.7045	0.8694	0.0396	0.3978	0.0344	0.3140
54	P-CA-2-12		NO SPERM; ORGAN WEIGHTS NOT RECORDED				
75**c**	P-CA-7-11	24.5162	0.9760	0.0614	0.2273	0.0087	0.0919
GP AREA (GOOSE PRAIRIE)							
31	P-GP-3-24	29.9897	0.9263	0.0313	0.4368	0.1718	0.9950
32	P-GP-3-5	33.1520	1.3801	0.0571	0.3962	0.1425	1.1637
44	P-GP-1-94	31.9978	0.7780	0.0814	0.3730	0.1940	0.9848
64	P-GP-2-79	27.3878	1.5743	0.1965	0.3446	0.0769	0.6660
65	P-GP-2-93	32.0844	1.3336	0.1853	0.4586	0.1696	1.1217
73	P-GP-4-24	20.0284	0.8680	0.0223	0.3194	0.0104	0.0702
78	P-GP-5-43	35.3899	1.4988	0.0842	0.4734	0.0863	1.4482
W AREA (WETLAND)							
9	P-W-1-76	33.8173	1.2835	0.0374	0.4203	0.1553	1.0005
10	P-W-1-60	20.7600	1.0717	0.1597	0.3205	a	0.1120
68	P-W-2-13	33.0034	1.3932	0.0816	0.4148	0.1357	0.9318
P2 AREA (PLANT 2)							
43	P-P2-1-2	27.9767	1.5193	0.0620	0.3442	0.1076	0.6334
WR AREA (WETLAND REFERENCE)							
1	P-WR-1-26	32.2392**d**	NO SPERM; ORGAN WEIGHTS NOT RECORDED.				
3	P-WR-1-43	20.4392**d**	SEXUALLY IMMATURE; ORGAN WEIGHTS NOT RECORDED.				
4	P-WR-1-46	28.8825	1.1801	0.1021	0.3578	0.0446	0.1578
5	P-WR-1-69	29.4584	0.9617	0.0345	0.3517	0.0366	0.1210
6	P-WR-1-70	20.9788	0.7261	0.0636	0.2241	0.0113	0.0507
7	P-WR-1-85	16.1865**d**	SEXUALLY IMMATURE; ORGAN WEIGHTS NOT RECORDED.				
15	P-WR-1-50	27.4630	1.1743	0.0704	0.3502	0.0538	0.3652
16	P-WR-1-69	20.2995	0.8706	0.0600	0.2390	b	b
26**c**	P-WR-1-95	27.1008	1.4070	0.0655	0.3405	0.0308	0.1225

a=LEFT EPIDIDYMIS TOO SMALL TO EXCISE; WEIGHT NOT OBTAINED.
b=DUE TO SIZE, TESTIS AND EPIDIDYMIS WERE WEIGHED TOGETHER; NOT INCLUDED IN STATISTICAL ANALYSES.
c=ANIMAL IMMATURE BASED ON HISTOPATHOLOGICAL EVALUATION OF THE TESTIS.
d=EXCLUDED FROM SEXUALLY MATURE ANALYSIS.

US ARMY - LAAP
JANUARY 2004

APPENDIX C

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL BODY AND ORGAN WEIGHT DATA

OTHER SPECIES

UNIQUE ANIMAL ID	ANIMAL ID	ANIMAL WEIGHT	LIVER WEIGHT	SPLEEN WEIGHT	KIDNEY WEIGHT	LEFT EPIDIDYMIS WEIGHT	TESTES WEIGHT
CA AREA (REFERENCE AREA)				**GM (GOLDEN MOUSE)**			
20	GM-CA-3-84	20.3563	0.8906	0.0213	0.3501	0.1166	1.0226
25	GM-CA-3-84	15.2246	0.8074	0.0296	0.3161	0.0707	0.4429
GP AREA (GOOSE PRAIRIE)				**GM (GOLDEN MOUSE)**			
45	GM-GP-1-72	19.4495	1.0255	0.0260	0.2631	0.0458	0.2753
P2 AREA (PLANT 2)				**GM (GOLDEN MOUSE)**			
42	GM-P2-1-26	16.6381	0.7434	a	0.2674	0.0556	0.4014
WR AREA (WETLAND REFERENCE)				**GM (GOLDEN MOUSE)**			
18	GM-WR-1-74	19.0343	0.9664	0.2271	0.2393	b	b
19	GM-WR-1-76	15.4664	0.5714	0.0138	0.2009	0.0216	0.0959
W AREA (WETLAND)				**MRR (MARSH RICE RAT)**			
11	MRR-W-1-52	32.5185	1.4445	0.0880	0.3582	0.0123	c

a=TISSUE DAMAGED; WEIGHT NOT RECORDED.
b=DUE TO SIZE, TESTIS AND EPIDIDYMIS WERE WEIGHED TOGETHER; NOT INCLUDED IN STATISTICAL ANALYSES.
c=ONE TESTIS WEIGHED; NOT INCLUDED IN STATISTICAL ANALYSES.

US ARMY - LAAP
JANUARY 2004

APPENDIX D

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL ORGAN WEIGHT TO BODY WEIGHT RATIO

HCR (Hispid Cotton Rat)

UNIQUE ANIMAL ID	ANIMAL ID		LIVER TO BW RATIO	SPLEEN TO BW RATIO	KIDNEY TO BW RATIO	LEFT EPIDIDYMIS TO BW RATIO	TESTES TO BW RATIO
CA AREA (REFERENCE AREA)							
50	HCR-CA-5-55	132.8504	4.0232	0.3189	0.6929	0.0817	0.6943
51	HCR-CA-5-38	151.9492	3.9948	0.2557	0.7576	0.0808	0.8496
52	HCR-CA-5-31	88.4430	4.7363	0.3063	0.9712	0.0739	1.0518
53	HCR-CA-6-14	77.9168	4.4891	0.1883	0.8456	0.0544	0.5627
55	HCR-CA-5-18	140.9278	3.9859	0.2646	0.8637	0.0943	0.9689
56	HCR-CA-5-20	87.7676	5.4217	0.3308	0.8991	0.0792	0.8109
57	HCR-CA-5-62	124.7813	3.7375	0.3103	0.7627	0.0858	0.6713
58	HCR-CA-5-67	81.4824	4.1402	0.1492	0.7934	0.0322	0.7167
59	HCR-CA-5-86	134.8589	4.5815	0.2164	0.7165	0.1008	1.3089
76	HCR-CA-9-66	101.4425	4.8426	0.3737	0.7266	0.0619	0.6075
77	HCR-CA-9-55	105.6562	3.9000	0.2365	1.0014	0.0717	1.1701
81	HCR-CA-9-58	111.6648	3.7485	0.1703	0.8521	0.0732	0.9716
83	HCR-CA-9-90	125.8995	3.1528	0.1226	0.7993	0.0769	1.0753
GP AREA (GOOSE PRAIRIE)							
82	HCR-GP-5-90	160.0622	4.2419	0.3552	0.7556	0.0375	0.4944
84	HCR-GP-5-13	119.6305	3.7374	0.1290	0.6828	0.0663	0.7222
W AREA (WETLAND)							
12	HCR-W-1-64	145.9685	3.5841	0.2475	0.5638	0.0939	0.6124
13	HCR-W-1-65	98.8807	SEXUALLY IMMATURE; TISSUES DISCARDED.				
21	HCR-W-1-30	136.9395	3.7988	0.3127	0.6792	0.0885	0.6493
22	HCR-W-1-44	180.8062	3.4934	0.1888	0.4983	0.0611	0.4905
23	HCR-W-1-62	126.5639	3.3865	0.2395	0.6059	0.0691	0.3346
24	HCR-W-1-67		SEXUALLY IMMATURE; TISSUES DISCARDED.				
27	HCR-W-1-30	181.3507	3.4741	0.2444	0.5887	0.0913	0.6798
28	HCR-W-1-44	171.8032	4.1513	0.2799	0.6212	0.1408	0.9047
29	HCR-W-1-52	114.5298	4.3105	0.2144	0.6176	0.0536	0.3865
30	HCR-W-1-64	131.4403	3.2376	0.2483	0.5666	0.0830	0.7158
60**b**	HCR-W-2-19	82.5691	3.3155	0.1966	0.6242	0.0281	0.2790
61	HCR-W-2-20	162.0575	3.2912	0.1696	0.5128	0.0558	0.6786
62	HCR-W-2-39	164.5401	3.5860	0.2957	0.6616	0.0774	0.8175
63	HCR-W-2-49	89.7931	3.5045	0.1970	0.6005	0.0415	0.4108
69	HCR-W-2-30	112.1235	3.1545	0.2452	0.6010	0.0574	0.4082
70	HCR-W-2-50	120.9061	3.6822	0.2736	0.6627	0.0545	0.8451
P2 AREA (PLANT 2)							
33	HCR-P2-3-3	91.1138	3.4069	0.2208	0.6492	0.0470	0.1095
34	HCR-P2-3-50	105.7114	3.7237	0.1542	0.7109	0.0428	0.3320
35**b**	HCR-P2-3-37	122.0543	3.9740	0.1898	0.6042	0.0296	0.3417
36**b**	HCR-P2-3-3	103.5875	3.4371	0.1676	0.6464	0.0527	0.2718
37	HCR-P2-3-47	96.2957	4.4820	0.2366	0.7165	a	0.1897
38	HCR-P2-3-97	98.1192	3.7202	0.1735	0.8204	0.0371	0.2646
39	HCR-P2-1-91	142.3586	3.8754	0.0953	0.7357	0.0518	0.4867
40	HCR-P2-1-94	88.6217	4.2790	0.2643	0.7864	0.0381	0.1541
41	HCR-P2-1-96	97.1571	4.3540	0.2131	0.6899	0.0298	0.3552
46	HCR-P2-3-47	139.1789	4.4268	0.2517	0.7301	0.1063	0.8283
47**b**	HCR-P2-3-79	75.8353	4.6298	0.2755	0.7969	0.0489	0.3046
66	HCR-P2-2-37	84.7161	3.9465	0.1663	0.7321	0.0623	0.2890
67**b**	HCR-P2-2-81	71.3378	4.2281	0.2171	0.9986	0.0383	0.3366
71**b**	HCR-P2-2-37	86.6328	4.1790	0.1958	0.8253	0.0402	0.2910
72	HCR-P2-2-68	130.2336	3.7237	0.2029	0.7667	0.0543	0.6685
74	HCR-P2-2-12	138.3082	4.7863	0.1443	0.7254	0.0262	0.4954
79**b**	HCR-P2-5-44	94.2919	4.1565	0.2215	0.8185	0.0276	0.3716
80**b**	HCR-P2-5-86	91.3177	4.0481	0.3090	0.7886	0.0425	0.2937
85	HCR-P2-5-71	152.0737	6.5359	0.1821	0.8886	0.0987	0.9869
WR AREA (WETLAND REFERENCE)							
17	HCR-WR-1-93	80.9180	4.7955	0.2023	0.8024	0.0535	0.2747

a=LEFT EPIDIDYMIS WEIGHT NOT RECORDED.
b=ANIMAL IMMATURE BASED ON HISTOPATHOLOGICAL EVALUATION OF THE TESTIS.

US ARMY - LAAP
JANUARY 2004

APPENDIX E

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL ORGAN WEIGHT TO BODY WEIGHT RATIO

P (Peromyscus)

UNIQUE ANIMAL ID	ANIMAL ID		LIVER TO BW RATIO	SPLEEN TO BW RATIO	KIDNEY TO BW RATIO	LEFT EPIDIDYMIS TO BW RATIO	TESTES TO BW RATIO
CA AREA (REFERENCE AREA)							
2	P-CA-3-32	25.4425	4.1702	0.1089	1.6166	0.4669	3.4847
8	P-CA-3-86	16.7807	SEXUALLY IMMATURE; TISSUES DISCARDED.				
14	P-CA-3-32	31.0016	2.6063	0.2045	1.2751	0.5487	3.3547
48	P-CA-2-3	24.1178	3.9108	0.1169	1.3447	0.2442	1.9699
49**c**	P-CA-2-87	21.7045	4.0056	0.1825	1.8328	0.1585	1.4467
54	P-CA-2-12	.	NO SPERM; ORGAN WEIGHTS NOT RECORDED.				
75**c**	P-CA-7-11	24.5162	3.9810	0.2504	0.9271	0.0355	0.3749
GP AREA (GOOSE PRAIRIE)							
31	P-GP-3-24	29.9897	3.0887	0.1044	1.4565	0.5729	3.3178
32	P-GP-3-5	33.1520	4.1629	0.1722	1.1951	0.4298	3.5102
44	P-GP-1-94	31.9978	2.4314	0.2544	1.1657	0.6063	3.0777
64	P-GP-2-79	27.3878	5.7482	0.7175	1.2582	0.2808	2.4317
65	P-GP-2-93	32.0844	4.1565	0.5775	1.4294	0.5286	3.4961
73	P-GP-4-24	20.0284	4.3338	0.1113	1.5947	0.0519	0.3505
78	P-GP-5-43	35.3899	4.2351	0.2379	1.3377	0.2439	4.0921
W AREA (WETLAND)							
9	P-W-1-76	33.8173	3.7954	0.1106	1.2429	0.4592	2.9585
10	P-W-1-60	20.7600	5.1623	0.7693	1.5438	a	0.5395
68	P-W-2-13	33.0034	4.2214	0.2472	1.2568	0.4112	2.8233
P2 AREA (PLANT 2)							
43	P-P2-1-2	27.9767	5.4306	0.2216	1.2303	0.3846	2.2640
WR AREA (WETLAND REFERENCE)							
1	P-WR-1-26	32.2392	NO SPERM; ORGAN WEIGHTS NOT RECORDED.				
3	P-WR-1-43	20.4392	SEXUALLY IMMATURE; ORGAN WEIGHTS NOT RECORDED.				
4	P-WR-1-46	28.8825	4.0859	0.3535	1.2388	0.1544	0.5464
5	P-WR-1-69	29.4584	3.2646	0.1171	1.1939	0.1242	0.4107
6	P-WR-1-70	20.9788	3.4611	0.3032	1.0682	0.0539	0.2417
7	P-WR-1-85	16.1865	SEXUALLY IMMATURE; ORGAN WEIGHTS NOT RECORDED.				
15	P-WR-1-50	27.4630	4.2759	0.2563	1.2752	0.1959	1.3298
16	P-WR-1-69	20.2995	4.2888	0.2956	1.1774	b	b
26**c**	P-WR-1-95	27.1008	5.1917	0.2417	1.2564	0.1136	0.4520

a=LEFT EPIDIDYMIS TOO SMALL TO EXCISE; WEIGHT NOT OBTAINED.
b=DUE TO SIZE, TESTIS AND EPIDIDYMIS WERE WEIGHED TOGETHER; NOT INCLUDED IN STATISTICAL ANALYSES.
c=ANIMAL IMMATURE BASED ON HISTOPATHOLOGICAL EVALUATION OF THE TESTIS.

US ARMY - LAAP
JANUARY 2004

APPENDIX F

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL ORGAN WEIGHT TO BODY WEIGHT RATIO

OTHER SPECIES

UNIQUE ANIMAL ID	ANIMAL ID		LIVER TO BW RATIO	SPLEEN TO BW RATIO	KIDNEY TO BW RATIO	LEFT EPIDIDYMIS TO BW RATIO	TESTES TO BW RATIO
CA AREA (REFERENCE AREA)				**GM (GOLDEN MOUSE)**			
20	GM-CA-3-84	20.3563	4.3751	0.1046	1.7199	0.5728	5.0235
25	GM-CA-3-84	15.2246	5.3033	0.1944	2.0762	0.4644	2.9091
GP AREA (GOOSE PRAIRIE)				**GM (GOLDEN MOUSE)**			
45	GM-GP-1-72	19.4495	5.2726	0.1337	1.3527	0.2355	1.4155
P2 AREA (PLANT 2)				**GM (GOLDEN MOUSE)**			
42	GM-P2-1-26	16.6381	4.4681	a	1.6072	0.3342	2.4125
WR AREA (WETLAND REFERENCE)				**GM (GOLDEN MOUSE)**			
18	GM-WR-1-74	19.0343	5.0772	1.1931	1.2572	b	b
19	GM-WR-1-76	15.4664	3.6945	0.0892	1.2989	0.1397	0.6201
W AREA (WETLAND)				**MRR (MARSH RICE RAT)**			
11	MRR-W-1-52	32.5185	4.4421	0.2706	1.1015	0.0378	c

a=TISSUE DAMAGEDD; WEIGHT NOT OBTAINED.
b=DUE TO SIZE, TESTIS AND EPIDIDYMIS WERE WEIGHED TOGETHER; NOT INCLUDED IN STATISTICAL ANALYSES.
c=ONE TESTIS WEIGHED; NOT INCLUDED IN STATISTICAL ANALYSES.

US ARMY - LAAP
JANUARY 2004

APPENDIX G

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL SPERM MOTILITY AND TOTAL COUNT DATA

HCR (Hispid Cotton Rat)

UNIQUE ANIMAL ID	ANIMAL ID	------PERCENT------ MOTILITY	PROGRESSIVE MOTILITY	------MOTION PARAMETERS------ VAP	VCL	VSL	BCV	TOTAL[a] SPERM COUNT
CA AREA (REFERENCE AREA)								
50	HCR-CA-5-55	NO SPERM PRESENT FOR MOTILITY OR MOTION PARAMETER ANALYSIS.						189.4
51	HCR-CA-5-38	45	35	182.2	322.7	150.7	39.5	707.0
52	HCR-CA-5-31	32	26	153.6	295.1	130.1	36.3	1008.6
53	HCR-CA-6-14	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
55	HCR-CA-5-18	90	82	201.7	346.0	164.2	41.1	2941.7
56	HCR-CA-5-20	67	44	114.4	246.9	81.9	32.1	711.5
57	HCR-CA-5-62	95	81	215.5	353.4	171.7	45.1	466.8
58	HCR-CA-5-67	44	28	120.0	242.1	94.9	37.4	563.0
59	HCR-CA-5-86	91	90	213.0	375.2	190.0	40.6	494.6
76	HCR-CA-9-66	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
77	HCR-CA-9-55	82	77	188.6	332.6	169.8	40.3	829.7
81	HCR-CA-9-58	72	67	205.7	356.7	184.5	43.0	1284.9
83	HCR-CA-9-90	92	86	184.7	289.2	167.0	41.4	1267.4
GP AREA (GOOSE PRAIRIE)								
82	HCR-GP-5-90	78	71	188.2	310.0	162.3	42.3	2082.8
84	HCR-GP-5-13	81	75	152.1	281.4	123.4	33.9	468.2
W AREA (WETLAND)								
12	HCR-W-1-64	61	56	121.6	233.1	103.6	25.2	946.1
13	HCR-W-1-65	SEXUALLY IMMATURE. TISSUES DISCARDED. NO ANALYSIS PERFORMED.						
21	HCR-W-1-30	41	33	135.3	264.5	116.1	32.6	1521.3
22	HCR-W-1-44	78	69	185.1	278.0	161.2	47.4	2381.4
23	HCR-W-1-62	NO SPERM PRESENT FOR MOTILITY OR MOTION PARAMETER ANALYSIS.						851.8
24	HCR-W-1-67	SEXUALLY IMMATURE. TISSUES DISCARDED. NO ANALYSIS PERFORMED.						
27	HCR-W-1-30	75	69	168.0	258.1	151.0	41.6	3924.5
28	HCR-W-1-44	67	57	158.6	272.5	129.0	38.4	3671.2
29	HCR-W-1-52	NO SPERM PRESENT FOR MOTILITY OR MOTION PARAMETER ANALYSIS.						288.7
30	HCR-W-1-64	93	88	228.7	348.7	202.7	46.1	3653.4
60	HCR-W-2-19	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
61	HCR-W-2-20	93	88	168.2	298.3	146.7	40.0	1289.8
62	HCR-W-2-39	16	0	70.3	158.5	20.6	37.2	2213.0
63	HCR-W-2-49	11	11	149.4	246.1	131.1	40.1	112.0
69	HCR-W-2-30	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
70	HCR-W-2-50	80	65	151.4	271.5	132.7	39.5	2999.8
P2 AREA (PLANT 2)								
33	HCR-P2-3-3	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS FIXED IN FORMALIN.						
34	HCR-P2-3-50	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS FIXED IN FORMALIN.						
35	HCR-P2-3-37	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS FIXED IN FORMALIN.						
36	HCR-P2-3-3	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
37	HCR-P2-3-47	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
38	HCR-P2-3-97	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
39	HCR-P2-1-91	25	0	11.8	25.4	9.6	16.0	953.1
40	HCR-P2-1-94	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
41	HCR-P2-1-96	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
46	HCR-P2-3-47	93	89	214.2	410.4	187.8	40.7	2024.9
47	HCR-P2-3-79	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
66	HCR-P2-2-37	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
67	HCR-P2-2-81	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
71	HCR-P2-2-37	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
72	HCR-P2-2-68	83	64	125.7	214.3	106.8	32.3	184.5
74	HCR-P2-2-12	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
79	HCR-P2-5-44	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
80	HCR-P2-5-86	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
85	HCR-P2-5-71	73	68	163.2	294.0	145.5	35.8	2414.1

[a]MILLION SPERM/GRAM TISSUE.

US ARMY - LAAP
JANUARY 2004

APPENDIX H

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL SPERM MOTILITY AND TOTAL COUNT DATA

P (Peromyscus)

UNIQUE ANIMAL ID	ANIMAL ID	------PERCENT------ MOTILITY	PROGRESSIVE MOTILITY	------MOTION PARAMETERS------ VAP	VCL	VSL	BCV	TOTAL[a] SPERM COUNT
CA AREA (REFERENCE AREA)								
2	P-CA-3-32	97	90	126.5	262.3	102.8	26.6	6096.9
8	P-CA-3-86	SEXUALLY IMMATURE. TISSUES DISCARDED. NO ANALYSIS PERFORMED.						
14	P-CA-3-32	88	74	99.4	197.1	81.8	23.0	3839.4
48	P-CA-2-3	59	50	128.8	244.8	103.0	28.6	1432.9
49	P-CA-2-87	73	65	135.6	256.7	110.3	27.7	1059.8
54	P-CA-2-12	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
75	P-CA-7-11	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
GP AREA (GOOSE PRAIRIE)								
31	P-GP-3-24	96	88	131.8	237.3	117.4	29.9	4830.5
32	P-GP-3-5	65	58	164.9	316.7	136.3	31.3	2859.2
44	P-GP-1-94	77	69	116.9	231.3	97.2	24.1	4087.0
64	P-GP-2-79	88	83	151.3	270.6	127.2	29.1	1210.9
65	P-GP-2-93	83	79	175.6	325.4	152.9	32.9	3219.1
73	P-GP-4-24	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
78	P-GP-5-43	95	74	110.1	226.0	92.2	27.0	1313.9
W AREA (WETLAND)								
9	P-W-1-76	86	76	112.7	238.6	86.6	23.4	4424.2
10	P-W-1-60	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
68	P-W-2-13	89	84	125.6	266.5	105.2	25.7	2709.0
P2 AREA (PLANT 2)								
43	P-P2-1-2	87	79	145.4	284.3	119.5	28.5	2903.9
WR AREA (WETLAND REFERENCE)								
1	P-WR-1-26	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
3	P-WR-1-43	SEXUALLY IMMATURE. TISSUES DISCARDED. NO ANALYSIS PERFORMED.						
4	P-WR-1-46	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
5	P-WR-1-69	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
6	P-WR-1-70	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
7	P-WR-1-85	SEXUALLY IMMATURE. TISSUES DISCARDED. NO ANALYSIS PERFORMED.						
15	P-WR-1-50	28	17	101.2	185.6	84.6	35.4	840.8
16	P-WR-1-69	NO SPERM PRESENT FOR MOTILITY; EPIDIDYMIS NOT SAVED.						
26	P-WR-1-95	NO SPERM PRESENT FOR MOTILITY OR MOTION PARAMETER ANALYSIS						882.3

[a]MILLION SPERM/GRAM TISSUE.

US ARMY - LAAP
JANUARY 2004

APPENDIX I

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL SPERM MOTILITY AND TOTAL COUNT DATA

OTHER SPECIES

UNIQUE ANIMAL ID	ANIMAL ID	------PERCENT------ MOTILITY	PROGRESSIVE MOTILITY	------MOTION PARAMETERS------ VAP	VCL	VSL	BCV	TOTAL[a] SPERM COUNT
CA AREA (REFERENCE AREA)			**GM (GOLDEN MOUSE)**					
20	GM-CA-3-84	96	94	214.5	236.7	203.5	30.8	1974.2
25	GM-CA-3-84	90	84	255.3	277.8	240.5	28.8	2709.5
GP AREA (GOOSE PRAIRIE)			**GM (GOLDEN MOUSE)**					
45	GM-GP-1-72	NO SPERM PRESENT FOR MOTILITY OR MOTION PARAMETER ANALYSIS						966.1
P2 AREA (PLANT 2)			**GM (GOLDEN MOUSE)**					
42	GM-P2-1-26	78	74	247.0	260.5	238.8	27.9	1179.2

[a]MILLION SPERM/GRAM TISSUE.

US ARMY - LAAP
JANUARY 2004

APPENDIX J

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL SPERM MORPHOLOGY DATA

HCR (Hispid Cotton Rat)

UNIQUE ANIMAL ID	ANIMAL ID	Normal	Head				Tail			
			Amorphous	Small	Enlarged	Double	Coiled	Bent	Double	Other
CA AREA (REFERENCE AREA)										
50	HCR-CA-5-55	198	0	0	0	0	0	0	2	0
51	HCR-CA-5-38	200	0	0	0	0	0	0	0	0
52	HCR-CA-5-31	200	0	0	0	0	0	0	0	0
55	HCR-CA-5-18	200	0	0	0	0	0	0	0	0
56	HCR-CA-5-20	197	1	0	0	0	0	1	1	0
57	HCR-CA-5-62	200	0	0	0	0	0	0	0	0
58	HCR-CA-5-67	198	0	0	0	0	0	1	1	0
59	HCR-CA-5-86	200	0	0	0	0	0	0	0	0
77	HCR-CA-9-55	200	0	0	0	0	0	0	0	0
81	HCR-CA-9-58	198	2	0	0	0	0	0	0	0
83	HCR-CA-9-90	200	0	0	0	0	0	0	0	0
GP AREA (GOOSE PRAIRIE)										
82	HCR-GP-5-90	200	0	0	0	0	0	0	0	0
84	HCR-GP-5-13	200	0	0	0	0	0	0	0	0
W AREA (WETLAND)										
12	HCR-W-1-64	198	1	0	0	0	0	0	1	0
21	HCR-W-1-30	198	2	0	0	0	0	0	0	0
22	HCR-W-1-44	200	0	0	0	0	0	0	0	0
23	HCR-W-1-62	FEWER THAN 200 SPERM CELLS AVAILABLE FOR ANALYSIS.								
27	HCR-W-1-30	200	0	0	0	0	0	0	0	0
28	HCR-W-1-44	198	2	0	0	0	0	0	0	0
29	HCR-W-1-52	198	1	0	0	0	0	0	1	0
30	HCR-W-1-64	197	2	0	0	0	0	0	1	0
61	HCR-W-2-20	200	0	0	0	0	0	0	0	0
62	HCR-W-2-39	200	0	0	0	0	0	0	0	0
63	HCR-W-2-49	200	0	0	0	0	0	0	0	0
70	HCR-W-2-50	200	0	0	0	0	0	0	0	0
P2 AREA (PLANT 2)										
39	HCR-P2-1-91	FEWER THAN 200 SPERM CELLS AVAILABLE FOR ANALYSIS.								
46	HCR-P2-3-47	198	1	0	0	0	0	1	0	0
72	HCR-P2-2-68	FEWER THAN 200 SPERM CELLS AVAILABLE FOR ANALYSIS.								
85	HCR-P2-5-71	200	0	0	0	0	0	0	0	0

US ARMY - LAAP
JANUARY 2004

APPENDIX K

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL SPERM MORPHOLOGY DATA

P (Peromyscus)

UNIQUE ANIMAL ID	ANIMAL ID	Normal	Head				Tail			
			Amorphous	Small	Enlarged	Double	Coiled	Bent	Double	Other
CA AREA (REFERENCE AREA)										
2	P-CA-3-32	200	0	0	0	0	0	0	0	0
14	P-CA-3-32	200	0	0	0	0	0	0	0	0
48	P-CA-2-3	199	1	0	0	0	0	0	0	0
49	P-CA-2-87	197	0	0	0	1	0	0	2	0
GP AREA (GOOSE PRAIRIE)										
31	P-GP-3-24	200	0	0	0	0	0	0	0	0
32	P-GP-3-5	200	0	0	0	0	0	0	0	0
44	P-GP-1-94	200	0	0	0	0	0	0	0	0
64	P-GP-2-79	198	2	0	0	0	0	0	0	0
65	P-GP-2-93	200	0	0	0	0	0	0	0	0
78	P-GP-5-43	200	0	0	0	0	0	0	0	0
W AREA (WETLAND)										
9	P-W-1-76	200	0	0	0	0	0	0	0	0
68	P-W-2-13	199	0	0	0	0	0	0	1	0
P2 AREA (PLANT 2)										
43	P-P2-1-2	198	2	0	0	0	0	0	0	0
WR AREA (WETLAND REFERENCE)										
15	P-WR-1-50	198	0	0	0	0	0	2	0	0
26	P-WR-1-95	FEWER THAN 200 SPERM CELLS AVAILABLE FOR ANALYSIS.								

US ARMY - LAAP
JANUARY 2004

APPENDIX L

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL SPERM MORPHOLOGY DATA

OTHER SPECIES

UNIQUE ANIMAL ID	ANIMAL ID	Normal	Head				Tail			
			Amorphous	Small	Enlarged	Double	Coiled	Bent	Double	Other
CA AREA (REFERENCE AREA)			**GM (GOLDEN MOUSE)**							
20	GM-CA-3-84	200	0	0	0	0	0	0	0	0
25	GM-CA-3-84	200	0	0	0	0	0	0	0	0
GP AREA (GOOSE PRAIRIE)			**GM (GOLDEN MOUSE)**							
45	GM-GP-1-72	FEWER THAN 200 SPERM CELLS AVAILABLE FOR ANALYSIS.								
P2 AREA (PLANT 2)			**GM (GOLDEN MOUSE)**							
42	GM-P2-1-26	200	0	0	0	0	0	0	0	0

APPENDIX M

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL MICROSCOPIC EVALUATION DATA FOR
LIVER, SPLEEN, KIDNEY AND TESTES

HCR (Hispid Cotton Rat)

POSITIVE FINDINGS ONLY

UNIQUE ANIMAL ID	ANIMAL ID	ORGAN	FINDING
CA AREA (REFERENCE AREA)			
51	HCR-CA-5-38	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		SPLEEN	CAPSULAR FIBRIN DEPOSIT, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	THICKENING BASEMENT MEMBRANE, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, MULTIFOCAL, UNILATERAL
52	HCR-CA-5-31	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, BILATERAL
53	HCR-CA-6-14	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	INFLAMMATION SUBACUTE, INTERSTITIAL, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, FOCAL, UNILATERAL
55	HCR-CA-5-18	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MILD, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	MINERALIZATION, MILD, MULTIFOCAL, BILATERAL
		TESTES	DEGENERATION, SEMINIFEROUS TUBULES, MINIMAL, MULTIFOCAL, UNILATERAL
		TESTES	MINERALIZATION, SEMINIFEROUS TUBULES, MINIMAL, MULTIFOCAL, UNILATERAL
56	HCR-CA-5-20	LIVER	INFLAMMATION SUBACUTE, MODERATE
		LIVER	NECROSIS, HEPATOCELLULAR, MODERATE
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, MULTIFOCAL, UNILATERAL
57	HCR-CA-5-62	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		LIVER	CESTODE CYST, PRESENT, FOCAL
		LIVER	BILIARY HYPERPLASIA, MINIMAL, FOCAL
		LIVER	CAPSULAR FIBRIN DEPOSIT, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FIBRIN TAG, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
58	HCR-CA-5-67	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		LIVER	CAPSULAR FIBRIN TAG, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION SUBACUTE, INTERSTITIAL, MINIMAL, FOCAL, UNILATERAL
59	HCR-CA-5-86	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MILD, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MILD, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, MULTIFOCAL, BILATERAL

APPENDIX M

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL MICROSCOPIC EVALUATION DATA FOR
LIVER, SPLEEN, KIDNEY AND TESTES

HCR (Hispid Cotton Rat)

POSITIVE FINDINGS ONLY

UNIQUE ANIMAL ID	ANIMAL ID	ORGAN	FINDING
CA AREA (CONTINUED)			
76	HCR-CA-9-66	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION SUBACUTE, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
77	HCR-CA-9-55	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, FOCAL, UNILATERAL
81	HCR-CA-9-58	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION SUBACUTE, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, MULTIFOCAL, UNILATERAL
83	HCR-CA-9-90	LIVER	CESTODE CYST, PRESENT, FOCAL
GP AREA (GOOSE PRAIRIE)			
NO HCR IN THIS AREA			
W AREA (WETLAND)			
12	HCR-W-1-64	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	TUBULAR DILATION, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	EPITHELIAL ATTENUATION, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, UNILATERAL
22	HCR-W-1-44	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	INFLAMMATION MONONUCLEAR, PORTAL, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MILD, MULTIFOCAL, BILATERAL
23	HCR-W-1-62	LIVER	BILIARY HYPERPLASIA, MINIMAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, UNILATERAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, UNILATERAL
27	HCR-W-1-30	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FIBRIN DEPOSIT, MINIMAL, FOCAL
		LIVER	CAPSULAR FOREIGN BODY/S, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	MINERALIZATION, MILD, MULTIFOCAL
29	HCR-W-1-52	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, BILATERAL
30	HCR-W-1-64	LIVER	HEMATOPOIETIC CELL PROLIFERATION, MILD, MULTIFOCAL
		SPLEEN	INCREASED EXTRAMEDULLARY HEMATOPOIESIS, MILD
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, FOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MILD, FOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, FOCAL, BILATERAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, UNILATERAL

APPENDIX M

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL MICROSCOPIC EVALUATION DATA FOR
LIVER, SPLEEN, KIDNEY AND TESTES

HCR (Hispid Cotton Rat)

POSITIVE FINDINGS ONLY

UNIQUE ANIMAL ID	ANIMAL ID	ORGAN	FINDING
W AREA (CONTINUED)			
60	HCR-W-2-19	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	GRANULOMATOUS INFLAMMATION, CAPSULE, MINIMAL, FOCAL
		LIVER	CAPSULAR FOREIGN BODY/S, MINIMAL, FOCAL
		TESTES	IMMATURE, MILD, BILATERAL
61	HCR-W-2-20	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, FOCAL, UNILATERAL
62	HCR-W-2-39	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FIBRIN DEPOSIT, MINIMAL, FOCAL
		LIVER	CAPSULAR FOREIGN BODY/S, MINIMAL, FOCAL
		SPLEEN	CAPSULAR FIBRIN DEPOSIT, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	MINERALIZATION, MILD, MULTIFOCAL, BILATERAL
63	HCR-W-2-49	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MILD, MULTIFOCAL, UNILATERAL
		KIDNEY	INFLAMMATION SUBACUTE, INTERSTITIAL, MINIMAL, MULTIFOCAL, UNILATERAL
69	HCR-W-2-30	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, FOCAL, UNILATERAL
70	HCR-W-2-50	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
P2 AREA (PLANT 2)			
35	HCR-P2-3-37	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FOREIGN BODY/S, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		TESTES	IMMATURE, MILD, BILATERAL
36	HCR-P2-3-3	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FIBRIN DEPOSIT, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FOREIGN BODY/S, MINIMAL, FOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, FOCAL
		TESTES	IMMATURE, MILD, BILATERAL

APPENDIX M

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL MICROSCOPIC EVALUATION DATA FOR
LIVER, SPLEEN, KIDNEY AND TESTES

HCR (Hispid Cotton Rat)

POSITIVE FINDINGS ONLY

UNIQUE ANIMAL ID	ANIMAL ID	ORGAN	FINDING
P2 AREA (CONTINUED)			
39	HCR-P2-1-91	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	CESTODE CYST, PRESENT, FOCAL
		SPLEEN	CAPSULAR FIBRIN DEPOSIT, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, UNILATERAL
46	HCR-P2-3-47	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BIILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
47	HCR-P2-3-79	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		LIVER	PELOSIS, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MILD, MULTIFOCAL, BIILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MILD, MULTIFOCAL, BILATERAL
		TESTES	IMMATURE, MARKED, BILATERAL
67	HCR-P2-2-81	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		TESTES	IMMATURE, MODERATE, BILATERAL
71	HCR-P2-2-37	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, FOCAL, BIILATERAL
		TESTES	IMMATURE, MARKED, BILATERAL
72	HCR-P2-2-68	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, MULTIFOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, BILATERAL
		TESTES	MULTINUCLEATED SPERMATIDS, MINIMAL, FOCAL, UNILATERAL
74	HCR-P2-2-12	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	PROTOZOAL CYST, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FIBRIN DEPOSIT, MINIMAL, FOCAL
		LIVER	CAPSULAR FOREIGN BODY/S, MINIMAL, FOCAL
		SPLEEN	MESOTHELIAL HYPERTROPHY/HYPERPLASIA, MINIMAL, FOCAL
		SPLEEN	CAPSULAR FIBRIN DEPOSIT, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, FOCAL, BIILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, FOCAL, UNILATERAL
79	HCR-P2-5-44	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, UNILATERAL
		TESTES	IMMATURE, MILD, BILATERAL
80	HCR-P2-5-86	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, UNILATERAL
		TESTES	IMMATURE, MARKED, BILATERAL
85	HCR-P2-5-71	LIVER	PROTOZOAL CYST, MINIMAL, FOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, MULTIFOCAL, BIILATERAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, MULTIFOCAL, BILATERAL
WR AREA (WETLAND REFERENCE)			
NO HCR IN THIS AREA			

APPENDIX N

REPRODUCTIVE ASSESSMENT OF SMALL ANIMALS
LONGHORN ARMY AMMUNITION PLANT (LAAP), MARSHALL, TX
JANUARY 2004

INDIVIDUAL MICROSCOPIC EVALUATION DATA FOR
LIVER, SPLEEN, KIDNEY AND TESTES

P (Peromyscus)

POSITIVE FINDINGS ONLY

UNIQUE ANIMAL ID	ANIMAL ID	ORGAN	FINDING
CA AREA (REFERENCE AREA)			
14	P-CA-3-32	LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, MULTIFOCAL, BILATERAL
		KIDNEY	MINERALIZATION, MINIMAL, MULTIFOCAL, UNILATERAL
48	P-CA-2-3	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FIBRIN DEPOSIT, MINIMAL, FOCAL
49	P-CA-2-87	KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, FOCAL, UNILATERAL
		TESTES	IMMATURE, MINIMAL, FOCAL, UNILATERAL
75	P-CA-7-11	TESTES	IMMATURE, MARKED, BILATERAL
GP AREA (GOOSE PRAIRIE)			
31	P-GP-3-24	LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		KIDNEY	DEGENERATION/REGENERATION, TUBULAR, MINIMAL, FOCAL, UNILATERAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, MULTIFOCAL, UNILATERAL
32	P-GP-3-5	LIVER	INFLAMMATION SUBACUTE, MINIMAL, FOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, PELVIS, MINIMAL, MULTIFOCAL, UNILATERAL
44	P-GP-1-94	LIVER	INFLAMMATION MONONUCLEAR, PORTAL, MINIMAL, MULTIFOCAL
		LIVER	CAPSULAR FIBRIN TAG, MINIMAL, FOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, MULTIFOCAL, BILATERAL
		LIVER	CAPSULAR FIBRIN DEPOSIT, MINIMAL, FOCAL, UNILATERAL
		LIVER	CAPSULAR FOREIGN BODY/S, MINIMAL, FOCAL, UNILATERAL
64	P-GP-2-79	LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		SPLEEN	INCREASED EXTRAMEDULLARY HEMATOPOIESIS, MARKED
65	P-GP-2-93	LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
		SPLEEN	INCREASED EXTRAMEDULLARY HEMATOPOIESIS, MODERATE
78	P-GP-5-43	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	HEMATOPOIETIC CELL PROLIFERATION, MINIMAL, MULTIFOCAL
W AREA (WETLAND)			
NO PEROMYSCUS IN THIS AREA			
P2 AREA (PLANT 2)			
NO PEROMYSCUS IN THIS AREA			
WR AREA (WETLAND REFERENCE)			
15	P-WR-1-50	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		LIVER	INFLAMMATION MONONUCLEAR, PORTAL, MINIMAL, MULTIFOCAL
		SPLEEN	HEMATOPOIETIC CELL PROLIFERATION, PEDICLE, MILD, FOCAL
		KIDNEY	INFLAMMATION CHRONIC, MINIMAL, FOCAL, UNILATERAL
		TESTES	SUBACUTE INFLAMMATION, PERIVASCULAR, MINIMAL, FOCAL
26	P-WR-1-95	LIVER	INFLAMMATION SUBACUTE, MINIMAL, MULTIFOCAL
		SPLEEN	MESOTHELIAL HYPERTROPHY/HYPERPLASIA, MINIMAL, FOCAL
		KIDNEY	INFLAMMATION MONONUCLEAR, INTERSTITIAL, MINIMAL, FOCAL
		TESTES	IMMATURE, MARKED, BILATERAL