# LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

# ADMINISTRATIVE RECORD

**Volume 4**

**2021**

**Bate Stamp Numbers**
**01013036 – 01015001**

**Prepared for**

**Department of the Army**
**Longhorn Army Ammunition Plant**

**1976–2021**

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

VOLUME 4

2021

A. Title: (cont'd) Report – Final Post Screening Investigation Addendum No. 2 Report for LHAAP-47, Plant 3 Area, Solid Rocket Motor Fuel Production Longhorn Army Ammunition Plant, Karnack, Texas, February 2021
Author(s): Department of the Army
Recipient: U.S. Environmental Protection Agency and Texas Commission on Environmental Quality
Date: February 23, 2021
Bate Stamp: 01013036 – 01014446

B. Title: Minutes – Final Monthly Managers' Meeting (MMM), Longhorn Army Ammunition Plant (LHAAP), February 17, 2021
Author(s): Department of the Army
Recipient: All Parties
Date: February 26, 2021
Bate Stamp: 01014447 – 01014461

C. Title: Report – Draft Final Summary Report – Excavation and Backfill Activities at LHAAP-17, Longhorn Army Ammunition Plant, Karnack, Texas, March 2021
Author(s): Department of the Army
Recipient: U.S. Environmental Protection Agency and Texas Commission on Environmental Quality
Date: March 8, 2021
Bate Stamp: 01014462 – 01014651

D. Title: (cont'd) Report – Appendix B to Draft Final Summary Report – Excavation and Backfill Activities at LHAAP-17, Longhorn Army Ammunition Plant, Karnack, Texas, March 2021
Author(s): Department of the Army
Recipient: U.S. Environmental Protection Agency and Texas Commission on Environmental Quality
Date: March 8, 2021
Bate Stamp: 01014652 – 01015001

# Injection Log Summary Report

Method : C:\INSTARCH\METHOD\2DIOXN07.M (RTE Integrator)
Title : Method for 8270 Analysis
Start (Tune) File ID : C:\INSTARCH\DATA\2S112119\2DFTP424.D
Injection Date : 21 Nov 2019 Log Time Period (hrs) : ALL
Injection Time : 17:15 Total files within period : 19
Sample Directory : C:\INSTARCH\DATA\2S112119\

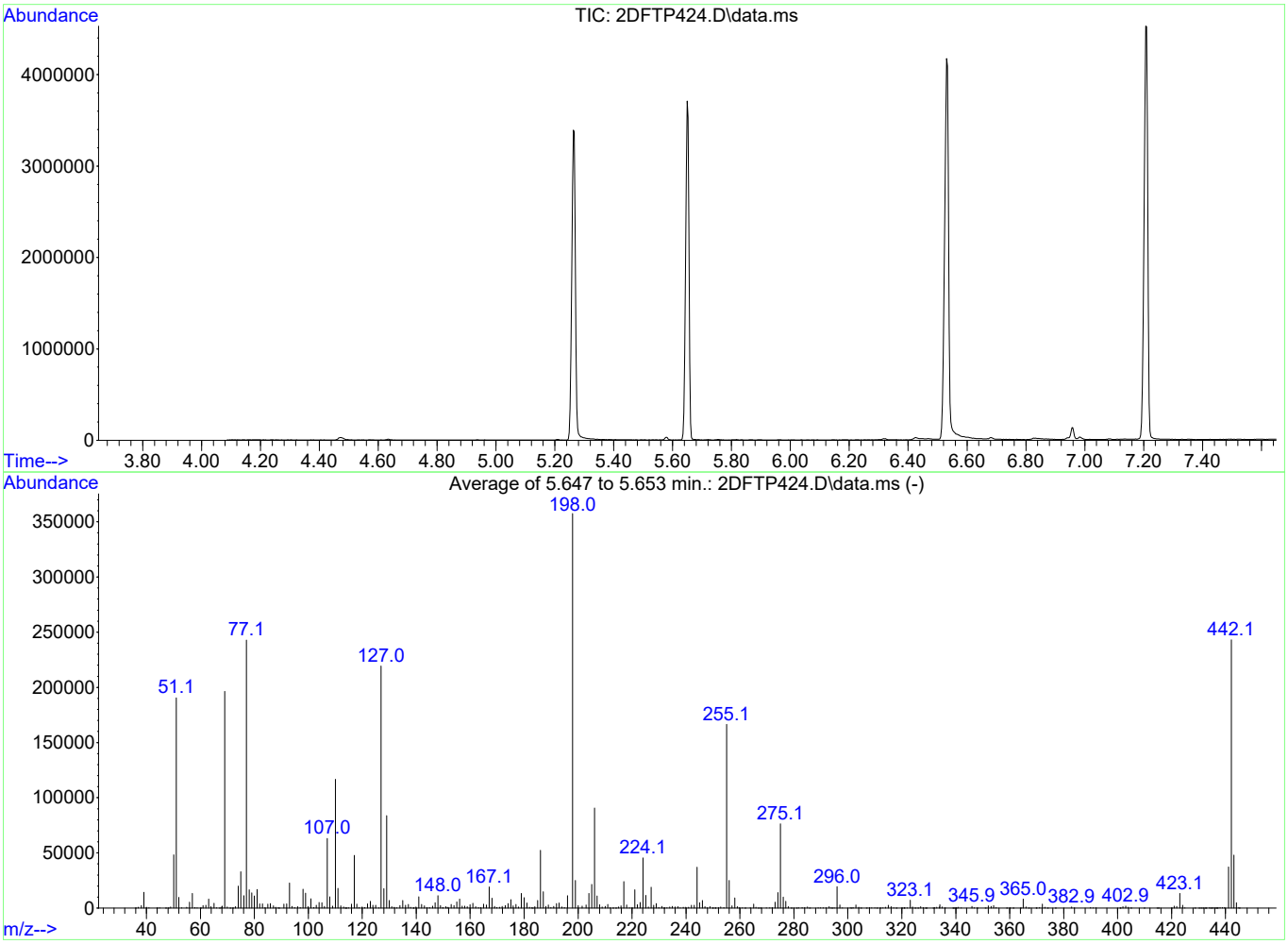
Injection Log Summary Table

| File ID | Multiplier I | S | T | Sample Name / Misc Info | Date | Time |
|---|---|---|---|---|---|---|
| 2IB01 | 1.00 | 1.00 | 1.00 | Instrument blank 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 17:31 |
| 2IB02 | 1.00 | 1.00 | 1.00 | Instrument blank 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 18:05 |
| 2ICAL1 | 1.00 | 1.00 | 1.00 | ICAL 0.1 ug/ml SVMS8543 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 18:25 |
| 2ICAL2 | 1.00 | 1.00 | 1.00 | ICAL 0.2 ug/ml SVMS8544 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 18:45 |
| 2ICAL3 | 1.00 | 1.00 | 1.00 | ICAL 0.5 ug/ml SVMS8545 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 19:05 |
| 2ICAL4 | 1.00 | 1.00 | 1.00 | ICAL 1.0 ug/ml SVMS8546 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 19:25 |
| 2ICAL5 | 1.00 | 1.00 | 1.00 | ICAL 1.5 ug/ml SVMS8547 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 19:45 |
| 2ICAL6 | 1.00 | 1.00 | 1.00 | ICAL 2.0 ug/ml SVMS8548 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 20:06 |
| 2ICAL7 | 1.00 | 1.00 | 1.00 | ICAL 2.5 ug/ml SVMS8549 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 20:26 |
| 2ICV1 | 1.00 | 1.00 | 1.00 | ICV 1.0 ug/ml SVMS8550 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 20:46 |
| 2ICV2 | 1.00 | 1.00 | 1.00 | ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 21:06 |
| 2ICV2 | 1.00 | 1.00 | 1.00 | ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 21:06 |
| 2ICV2 | 1.00 | 1.00 | 1.00 | ICV 2.0 ug/ml SVMS8551 1000ul+10ul IS SVMS8553 | 21 Nov 2019 | 21:06 |
| 2IB03 | 1.00 | 1.00 | 1.00 | Instrument blank 1000ul+10ul IS SVMS8553 | 22 Nov 2019 | 09:46 |
| 2DFTP425 | 1.00 | 1.00 | 1.00 | DFTPP TUNE SVMS8353 SVMS2, 50ng DFTPP | 22 Nov 2019 | 10:02 |
| 2DFTP426 | 1.00 | 1.00 | 1.00 | DFTPP TUNE SVMS8353 SVMS2, 50ng DFTPP | 22 Nov 2019 | 10:18 |
| 2ICAL2R | 1.00 | 1.00 | 1.00 | ICAL 0.2 ug/ml SVMS8544 1000ul+10ul IS SVMS8553 | 22 Nov 2019 | 10:33 |
| 2ICAL3R | 1.00 | 1.00 | 1.00 | ICAL 0.5 ug/ml SVMS8545 1000ul+10ul IS SVMS8553 | 22 Nov 2019 | 11:09 |
| 2ICV1R | 1.00 | 1.00 | 1.00 | ICV 1.0 ug/ml SVMS8550 1000ul+10ul IS SVMS8553 | 22 Nov 2019 | 11:44 |

DFTPP

Data File : C:\INSTARCH\DATA\2S112119\2DFTP424.D  Vial: 1
Acq On : 21 Nov 2019 17:15  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



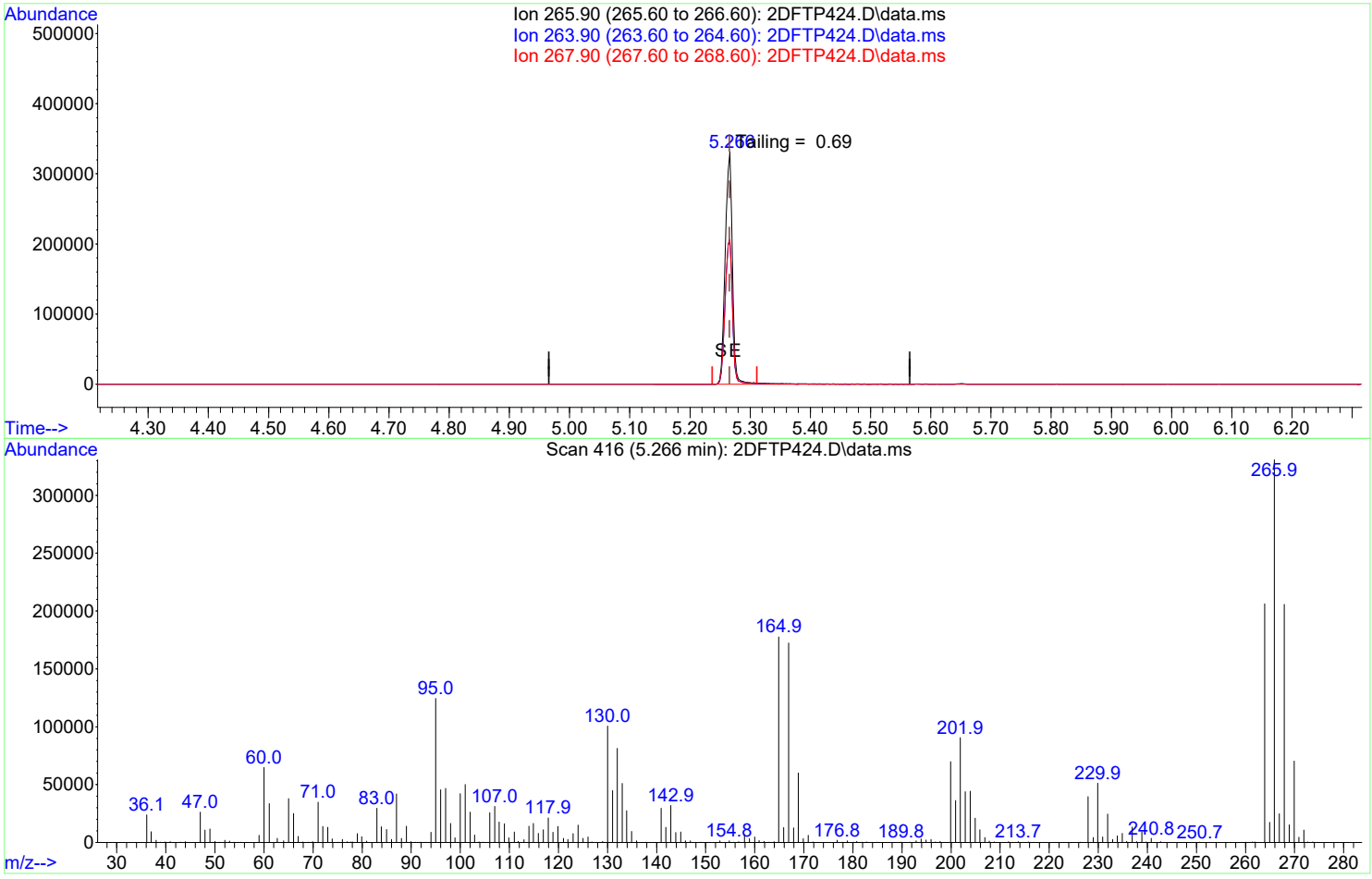

AutoFind: Scans 550, 551, 552; Background Corrected with Scan 541

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 53.3 | 190485 | PASS |
| 68 | 69 | 0.00 | 2 | 1.0 | 1933 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 1074 | PASS |
| 127 | 198 | 10 | 80 | 61.4 | 219307 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 357461 | PASS |
| 199 | 198 | 5 | 9 | 7.0 | 25112 | PASS |
| 275 | 198 | 10 | 60 | 21.3 | 76301 | PASS |
| 365 | 198 | 1 | 100 | 2.3 | 8309 | PASS |
| 441 | 442 | 0.01 | 24 | 15.3 | 37251 | PASS |
| 442 | 198 | 50 | 100 | 68.0 | 243115 | PASS |
| 443 | 442 | 15 | 24 | 19.8 | 48133 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP424.D  Vial: 1
Acq On : 21 Nov 2019 17:15  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 17:35:54 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M




TIC: 2DFTP424.D\data.ms

(1) Pentachlorophenol

5.266min (+ 0.000) 15.78 ng

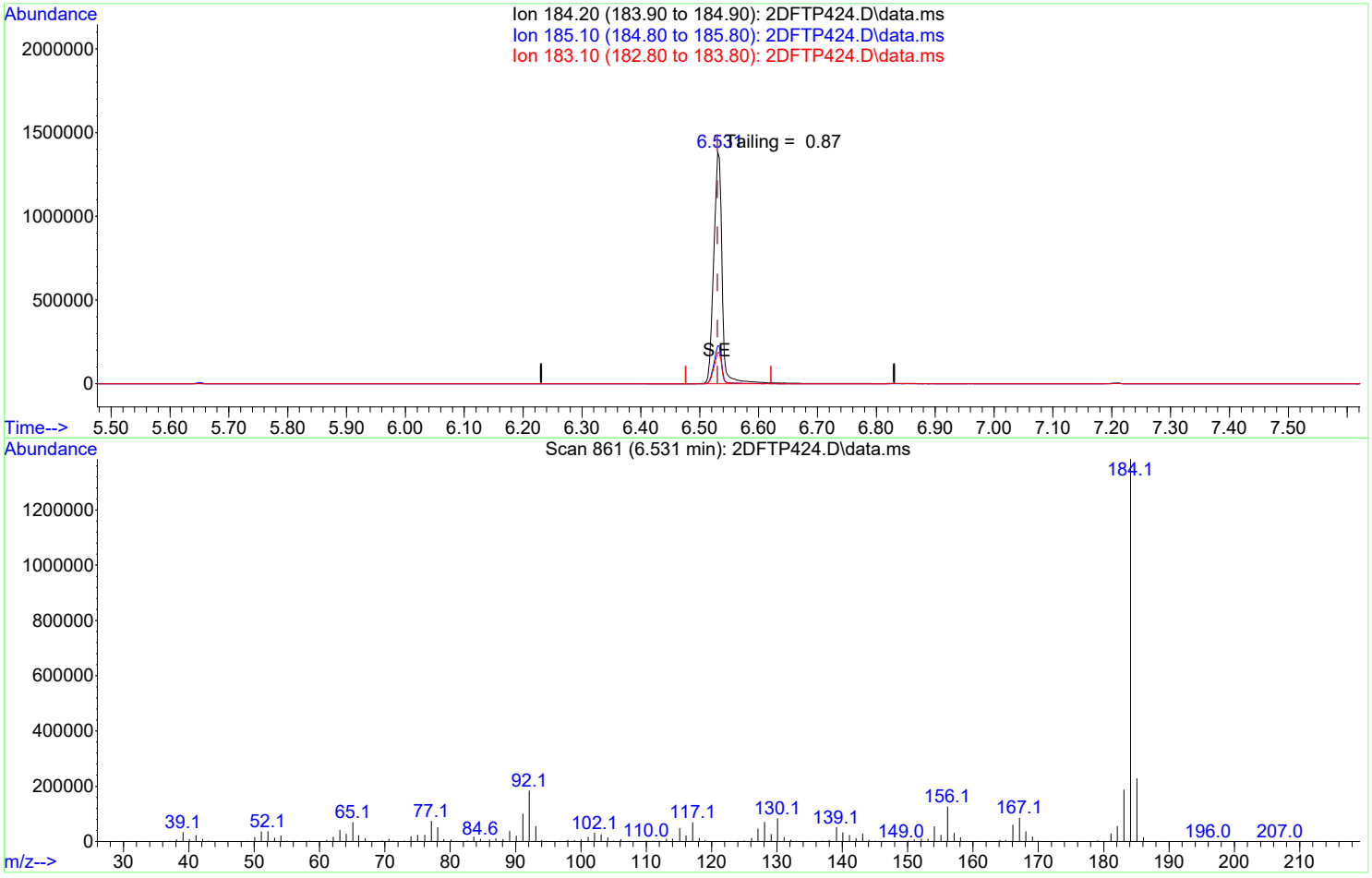
response 273436

| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 64.60 | 64.21 |
| 267.90 | 65.00 | 63.65 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP424.D  Vial: 1
Acq On : 21 Nov 2019 17:15  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 17:35:54 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M







TIC: 2DFTP424.D\data.ms

**(3) Benzidine**

**6.531min ( 0.000) 20.93 ng**

**response 1375777**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.90 | 15.77 |
| 183.10 | 12.20 | 12.70 |
| 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| Data File : | 2DFTP424.D | Vial Number : | 1 |
| Data File Path : | C:\INSTARCH\DATA\2S112119\ | Operator : | RPN |
| Date Aquired : | 11/21/2019 17:15 | Instrument Name : | SVMS2 |
| Sample Name : | DFTPP TUNE SVMS8353 | Sample Multiplier : | 1 |
| Misc Info : | SVMS2, 50ng DFTPP | | |

Calibration Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019

| # | Compound | R.T. | QIon | Response |
|---|---|---|---|---|
| 1) | Pentachlorophenol | 5.27 | 266 | 273436.00 |
| 2) | DFTPP | 5.65 | 198 | 300617.00 |
| 3) | Benzidine | 6.53 | 184 | 1375777.00 |
| 4) | DDE | 6.68 | 246 | 1473.00 |
| 5) | DDD | 6.96 | 235 | 18441.00 |
| 6) | DDT | 7.21 | 235 | 625585.00 |

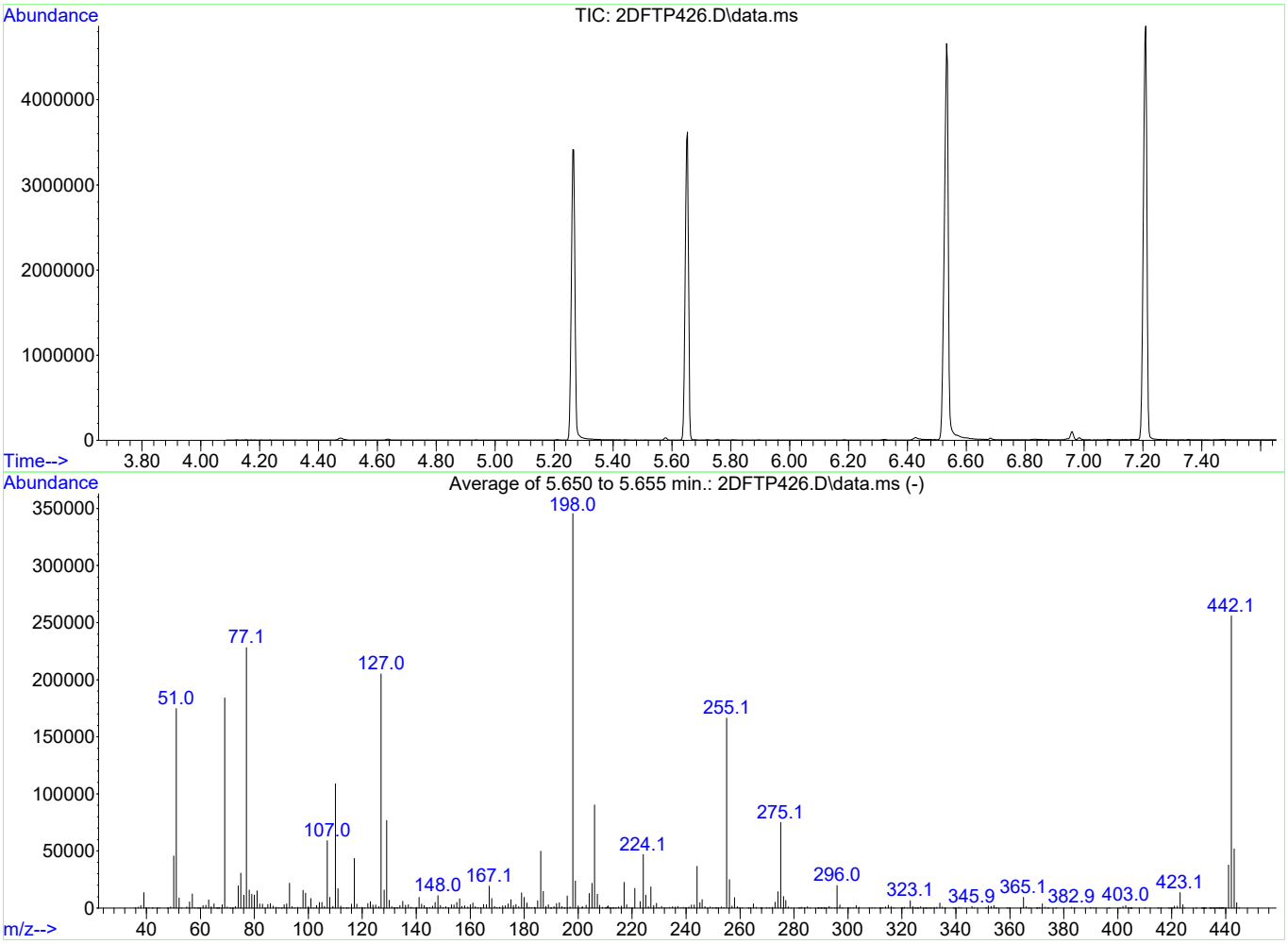
DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 3.09\ \%$$

DFTPP

Data File : C:\INSTARCH\DATA\2S112119\2DFTP426.D  Vial: 1
Acq On : 22 Nov 2019 10:18  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



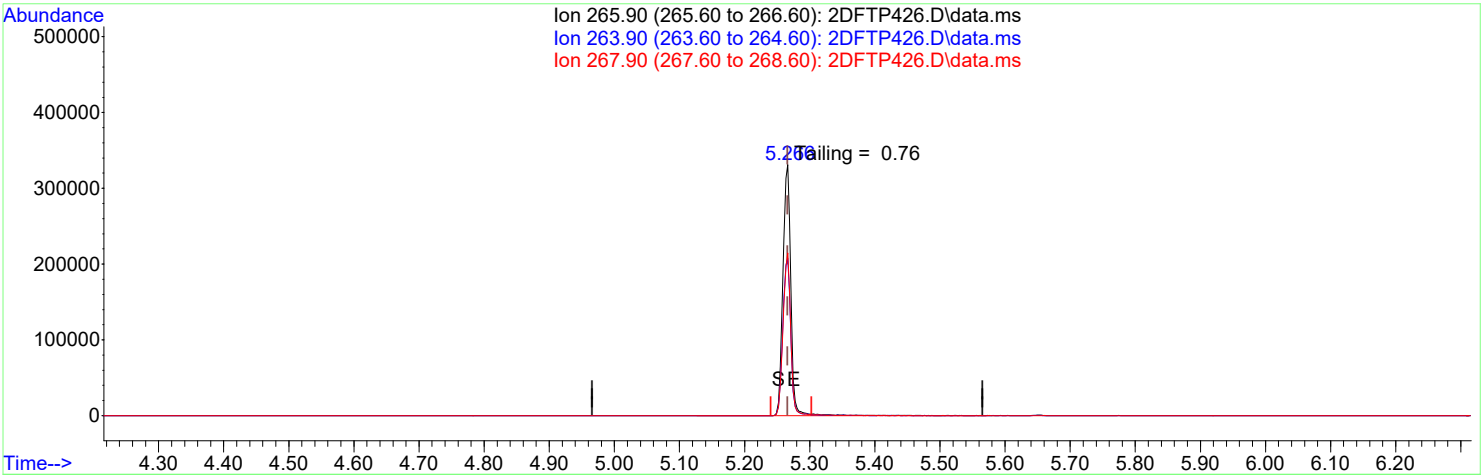

AutoFind: Scans 551, 552, 553; Background Corrected with Scan 541

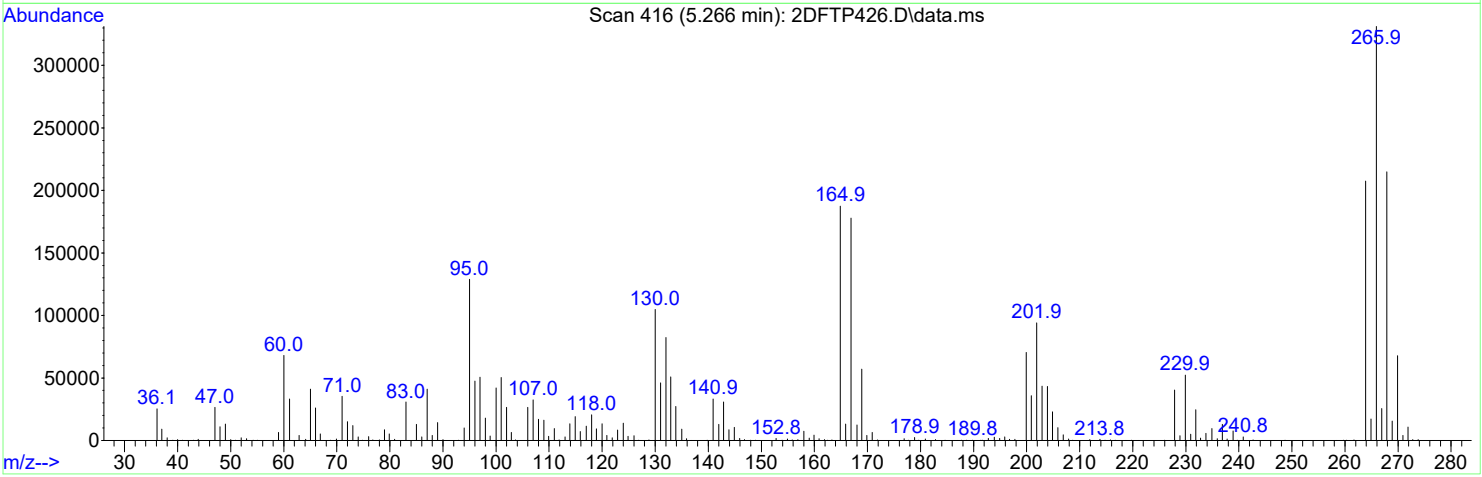
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 50.6 | 174810 | PASS |
| 68 | 69 | 0.00 | 2 | 1.6 | 2971 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 924 | PASS |
| 127 | 198 | 10 | 80 | 59.4 | 205141 | PASS |
| 197 | 198 | 0.00 | 2 | 0.3 | 965 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 345536 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 23765 | PASS |
| 275 | 198 | 10 | 60 | 21.7 | 74960 | PASS |
| 365 | 198 | 1 | 100 | 2.7 | 9454 | PASS |
| 441 | 442 | 0.01 | 24 | 14.8 | 37792 | PASS |
| 442 | 198 | 50 | 100 | 74.0 | 255829 | PASS |
| 443 | 442 | 15 | 24 | 20.2 | 51789 | PASS |

# Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP426.D  Vial: 1
Acq On : 22 Nov 2019 10:18  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 10:33:39 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M




TIC: 2DFTP426.D\data.ms

(1) Pentachlorophenol

5.266min (+ 0.000) 15.88 ng

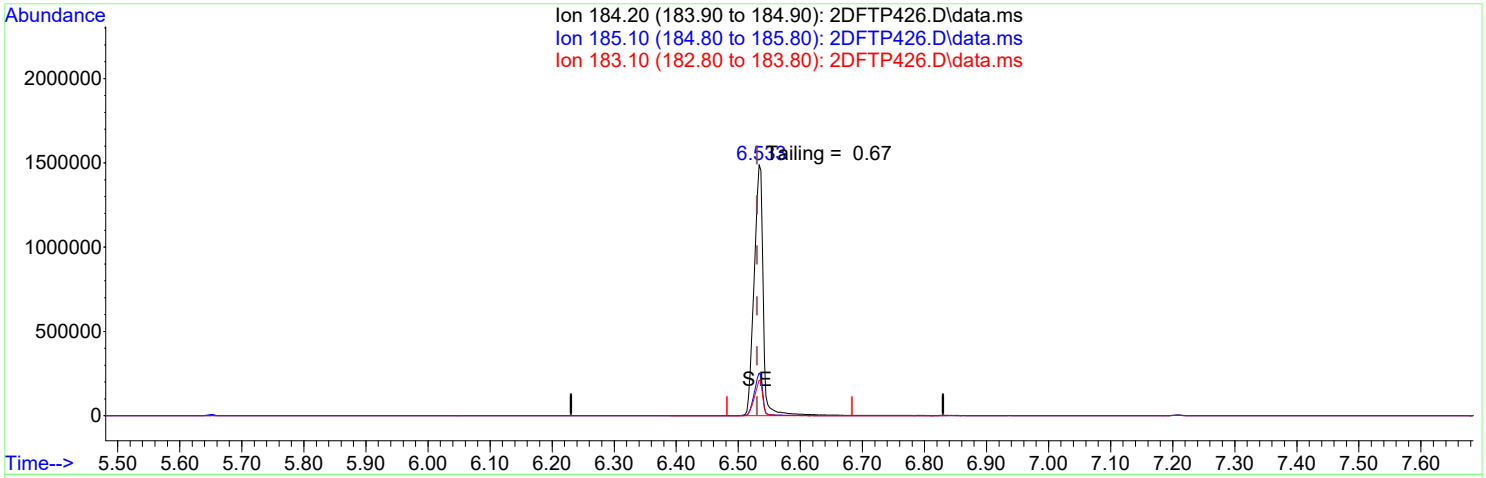
response 275112

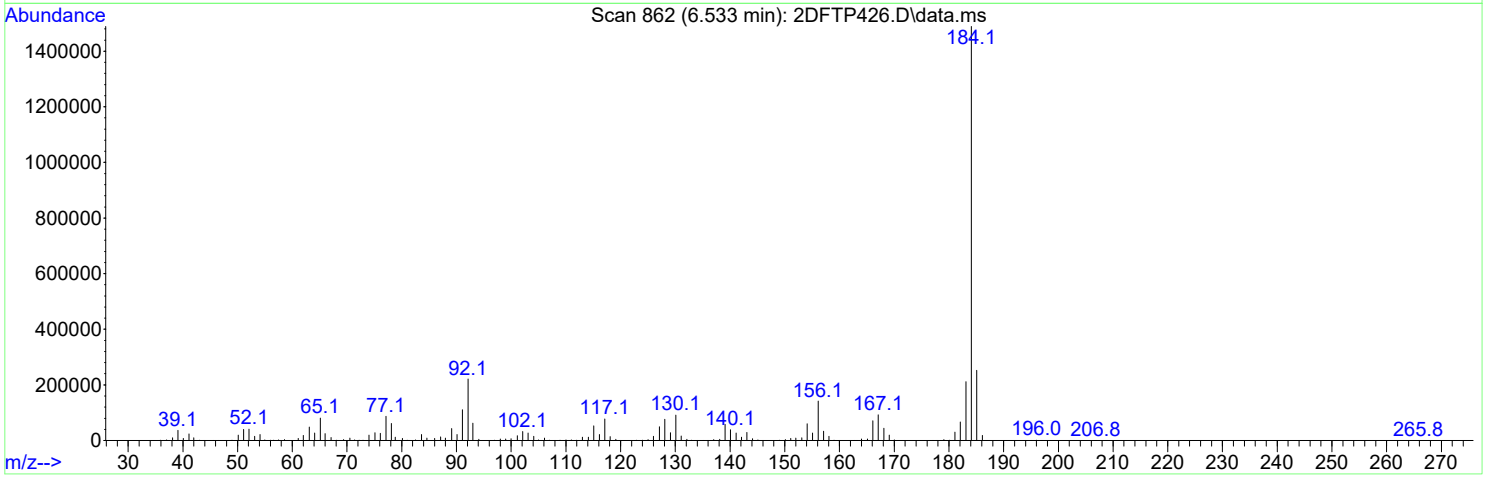
| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 64.60 | 63.99 |
| 267.90 | 65.00 | 63.85 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112119\2DFTP426.D  Vial: 1
Acq On : 22 Nov 2019 10:18  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 10:33:39 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M




TIC: 2DFTP426.D\data.ms

**(3) Benzidine**

**6.533min (+ 0.003) 22.87 ng**

**response 1503182**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.90 | 15.95 |
| 183.10 | 12.20 | 12.90 |
| 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| Data File | : 2DFTP426.D | Vial Number | : 1 |
| Data File Path | : C:\INSTARCH\DATA\2S112119\ | Operator | : RPN |
| Date Aquired | : 11/22/2019 10:18 | Instrument Name | : SVMS2 |
| Sample Name | : DFTPP TUNE SVMS8353 | Sample Multiplier | : 1 |
| Misc Info | : SVMS2, 50ng DFTPP | | |

Calibration Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019

| # | Compound | R.T. | QIon | Response |
|---|---|---|---|---|
| 1) | Pentachlorophenol | 5.27 | 266 | 275112.00 |
| 2) | DFTPP | 5.65 | 198 | 301251.00 |
| 3) | Benzidine | 6.53 | 184 | 1503182.00 |
| 4) | DDE | 6.68 | 246 | 1379.00 |
| 5) | DDD | 6.96 | 235 | 14278.00 |
| 6) | DDT | 7.21 | 235 | 645492.00 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \qquad 2.37\ \%$$

Response Factor Report SVMS2

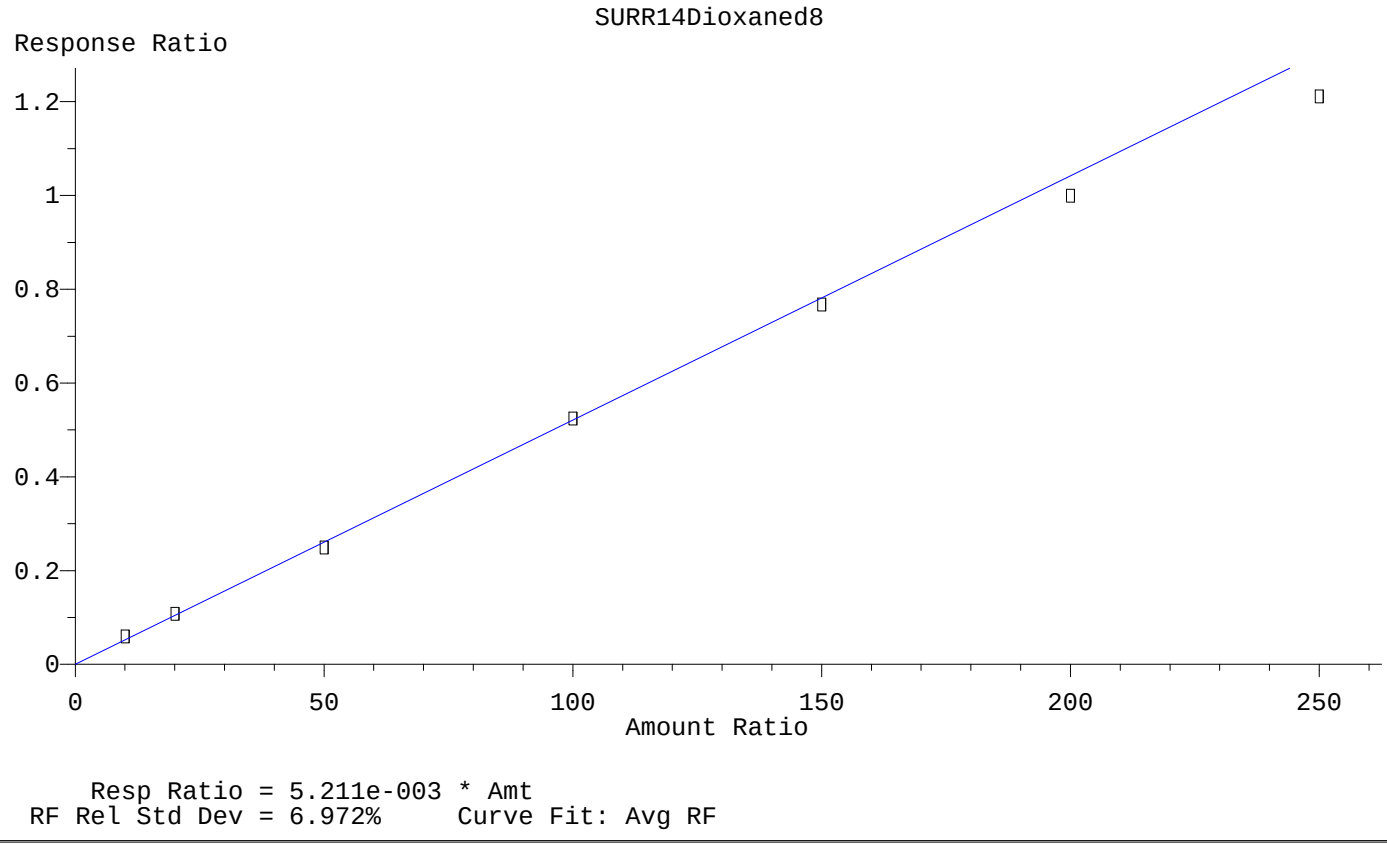
Method Path : C:\INSTARCH\METHOD\
Method File : 2DIOXN7A.M
Title : Method for 8270 Analysis
Last Update : Mon Nov 25 11:14:45 2019
Response Via : Initial Calibration

Calibration Files
1 =2ICAL1.D 2 =2ICAL2R.D 3 =2ICAL3R.D 4 =2ICAL4.D 5 =2ICAL5.D 6 =2ICAL6.D 7 =2ICAL7.D

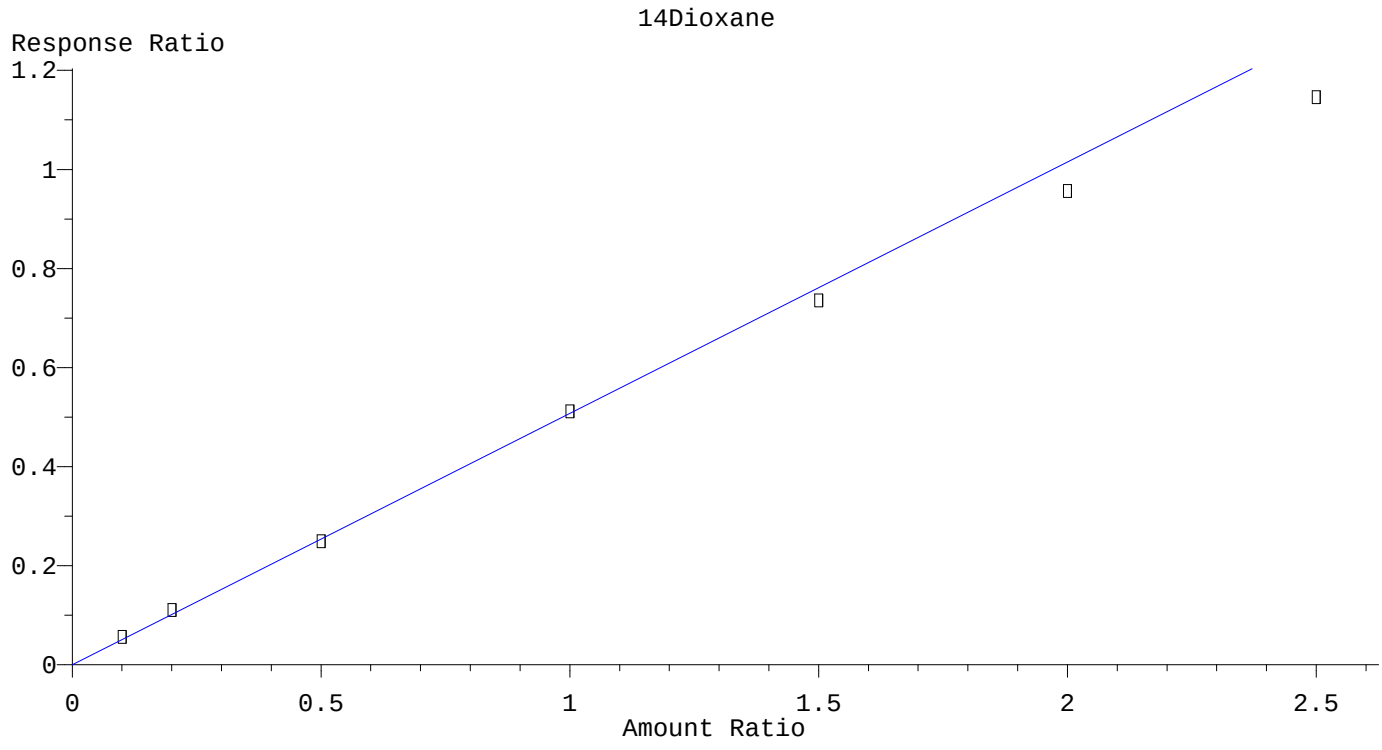
| | Compound | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) I | 14Diclbenzd4 | ----------ISTD---------- | | | | | | | | |
| 2) S | SURR14Dioxaned8 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 6.97 |
| 3) CT | 14Dioxane | 0.563 | 0.551 | 0.499 | 0.512 | 0.490 | 0.478 | 0.458 | 0.507 | 7.49 |

(#) = Out of Range

Calibration Plot Report




Resp Ratio = 5.211e-003 * Amt
RF Rel Std Dev = 6.972% Curve Fit: Avg RF




Resp Ratio = 5.073e-001 * Amt
RF Rel Std Dev = 7.489% Curve Fit: Avg RF

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2IB02.D Vial: 99
Acq On : 21 Nov 2019 18:05 Operator: RPN
Sample : Instrument blank Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:23:20 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

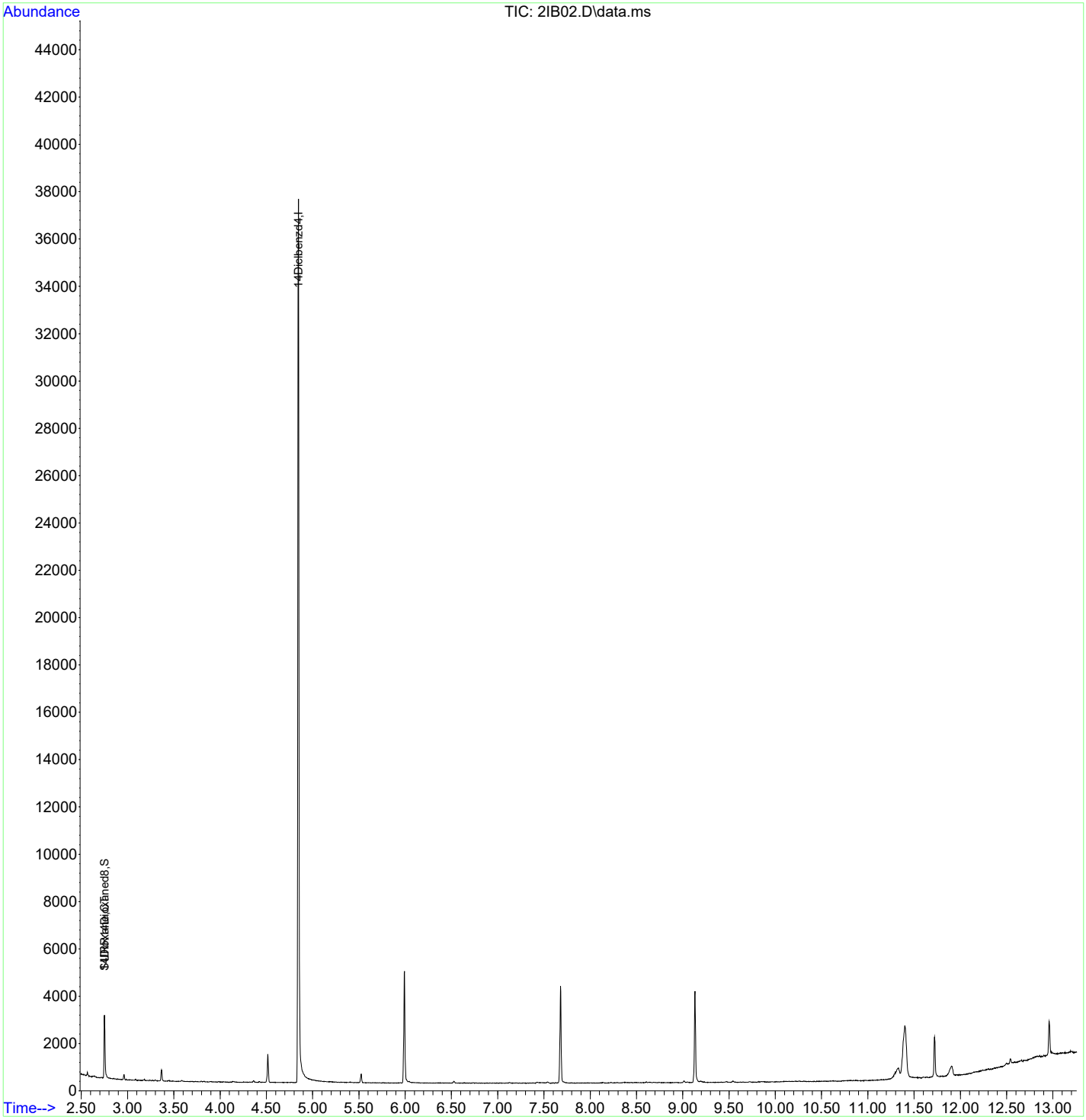
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 32802 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.751 | 64 | 296 | 1.73 | %REC | 0.07 |
| Spiked Amount 100.000 | | | Recovery = | 1.73% | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.751 | 58 | 1824 | 0.1096 | ug/mL# | 1 |

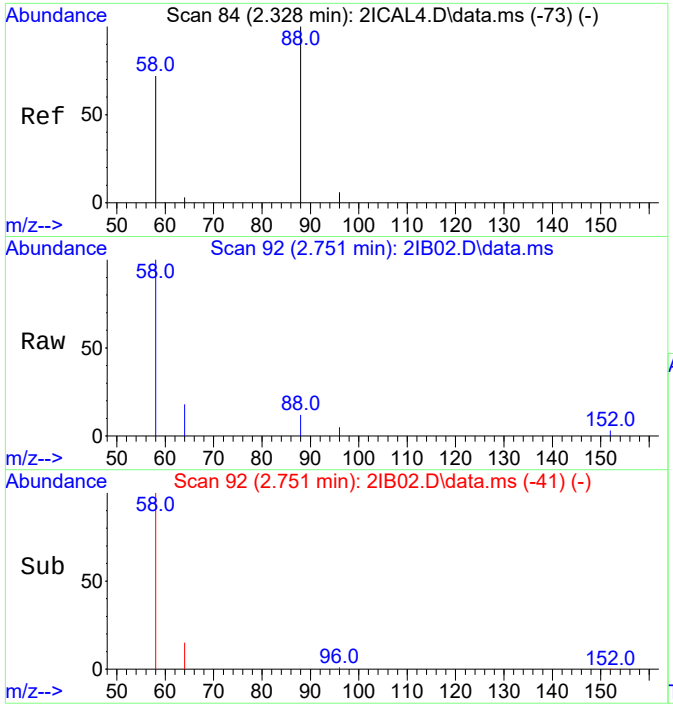
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2IB02.D Vial: 99
Acq On : 21 Nov 2019 18:05 Operator: RPN
Sample : Instrument blank Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:23:20 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

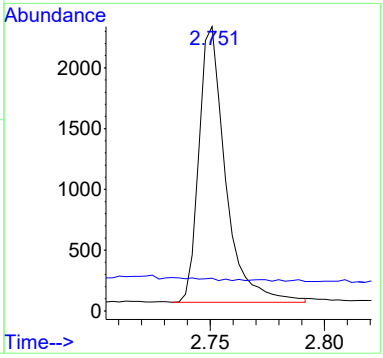





#3
14Dioxane
Concen: 0.11 ug/mL
RT: 2.751 min Scan# 92
Delta R.T. 0.049 min
Lab File: 2IB02.D
Acq: 21 Nov 2019 18:05

Tgt Ion: 58 Resp: 1824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 88 | 3.9 | 100.1 | 160.1# |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL1.D Vial: 2
Acq On : 21 Nov 2019 18:25 Operator: RPN
Sample : ICAL 0.1 ug/ml SVMS8543 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:40 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

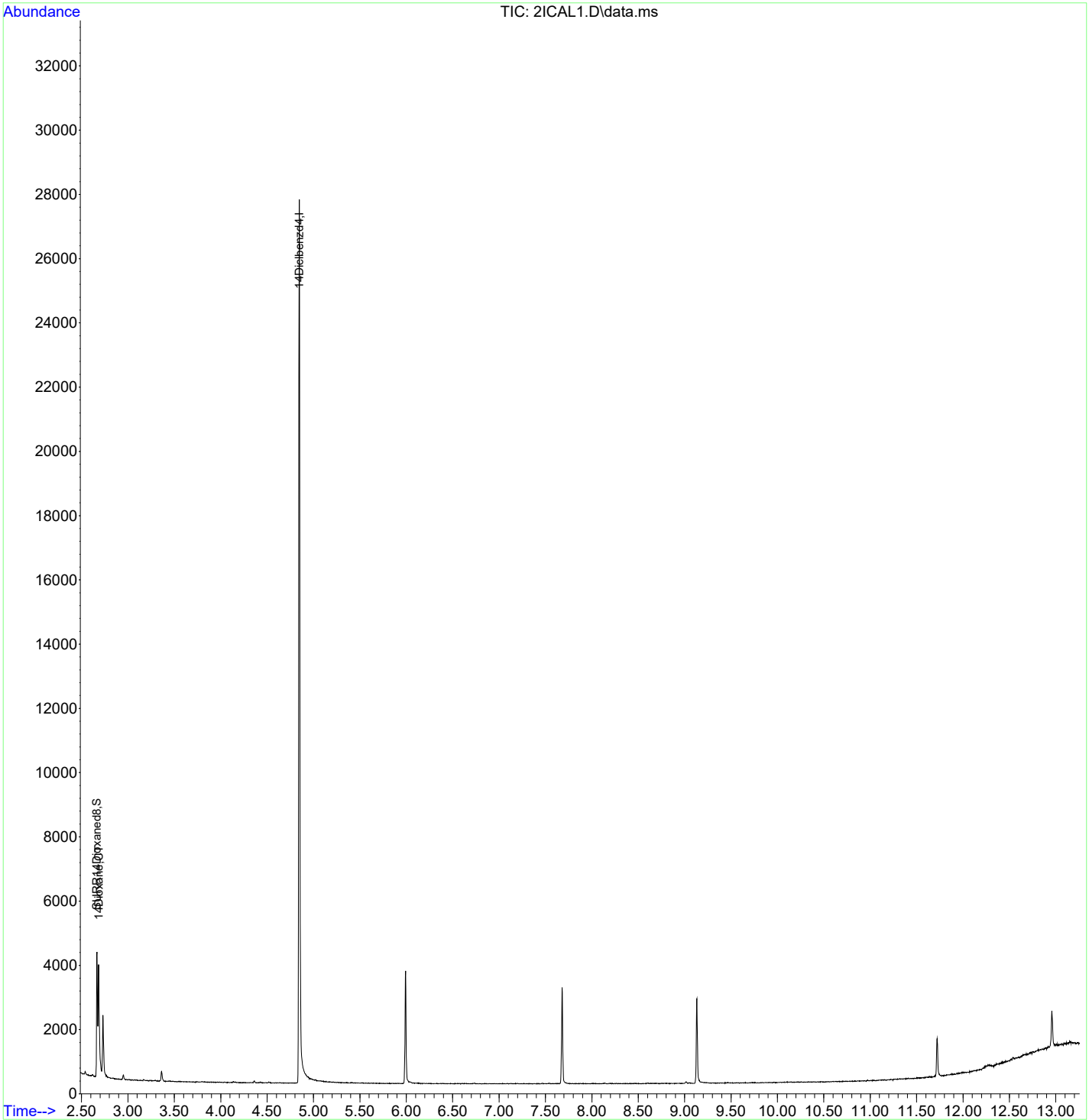
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 23942 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.664 | 64 | 1420 | 11.38 | %REC | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 11.38% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.684 | 58 | 1349 | 0.1111 | ug/mL | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL1.D Vial: 2
Acq On : 21 Nov 2019 18:25 Operator: RPN
Sample : ICAL 0.1 ug/ml SVMS8543 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:40 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL2R.D Vial: 3
Acq On : 22 Nov 2019 10:33 Operator: RPN
Sample : ICAL 0.2 ug/ml SVMS8544 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:43 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

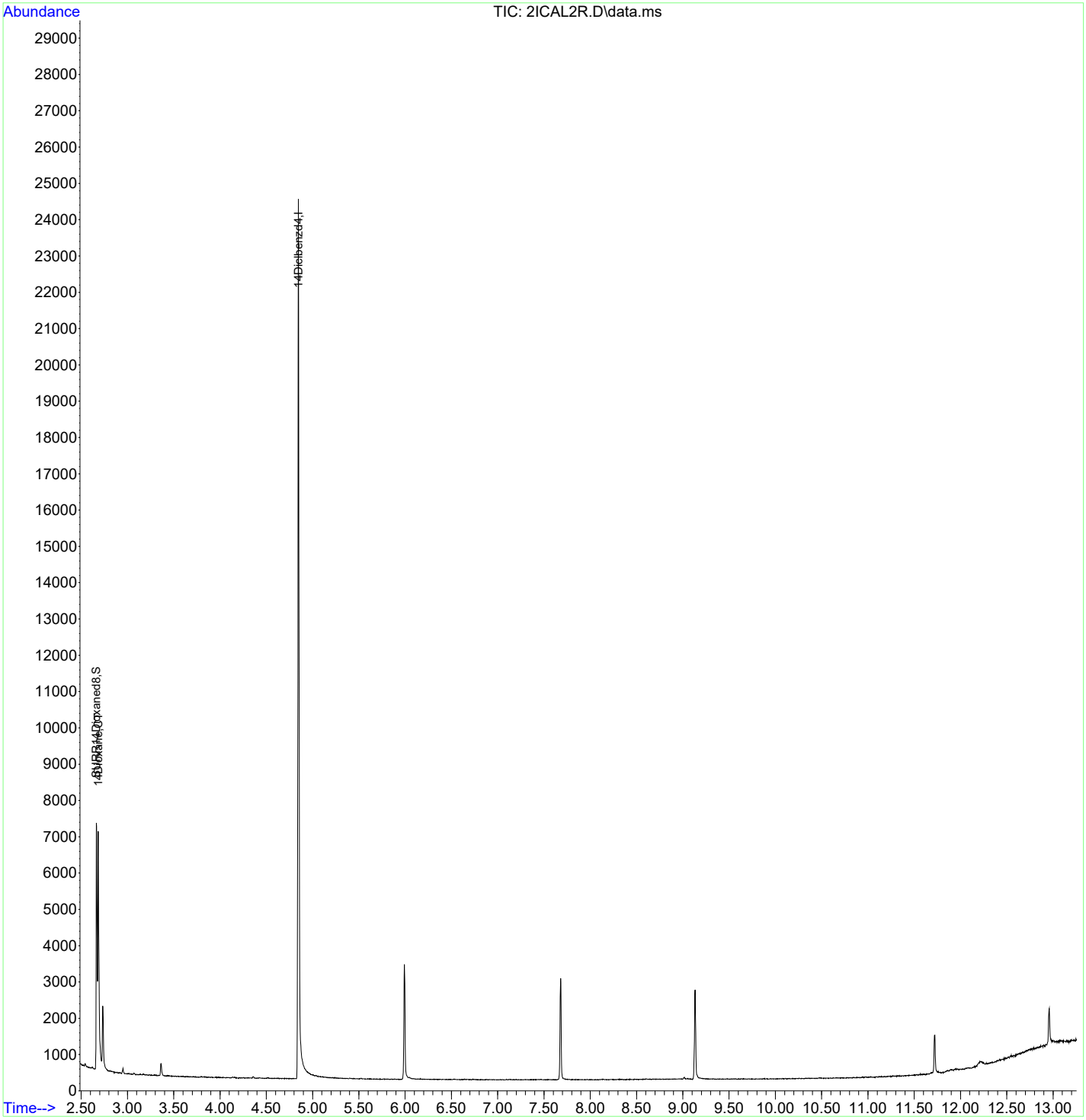
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 21935 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.664 | 64 | 2357 | 20.62 | %REC | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 20.62% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.684 | 58 | 2416 | 0.2171 | ug/mL | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL2R.D Vial: 3
Acq On : 22 Nov 2019 10:33 Operator: RPN
Sample : ICAL 0.2 ug/ml SVMS8544 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:43 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL3R.D Vial: 4
Acq On : 22 Nov 2019 11:09 Operator: RPN
Sample : ICAL 0.5 ug/ml SVMS8545 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:46 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

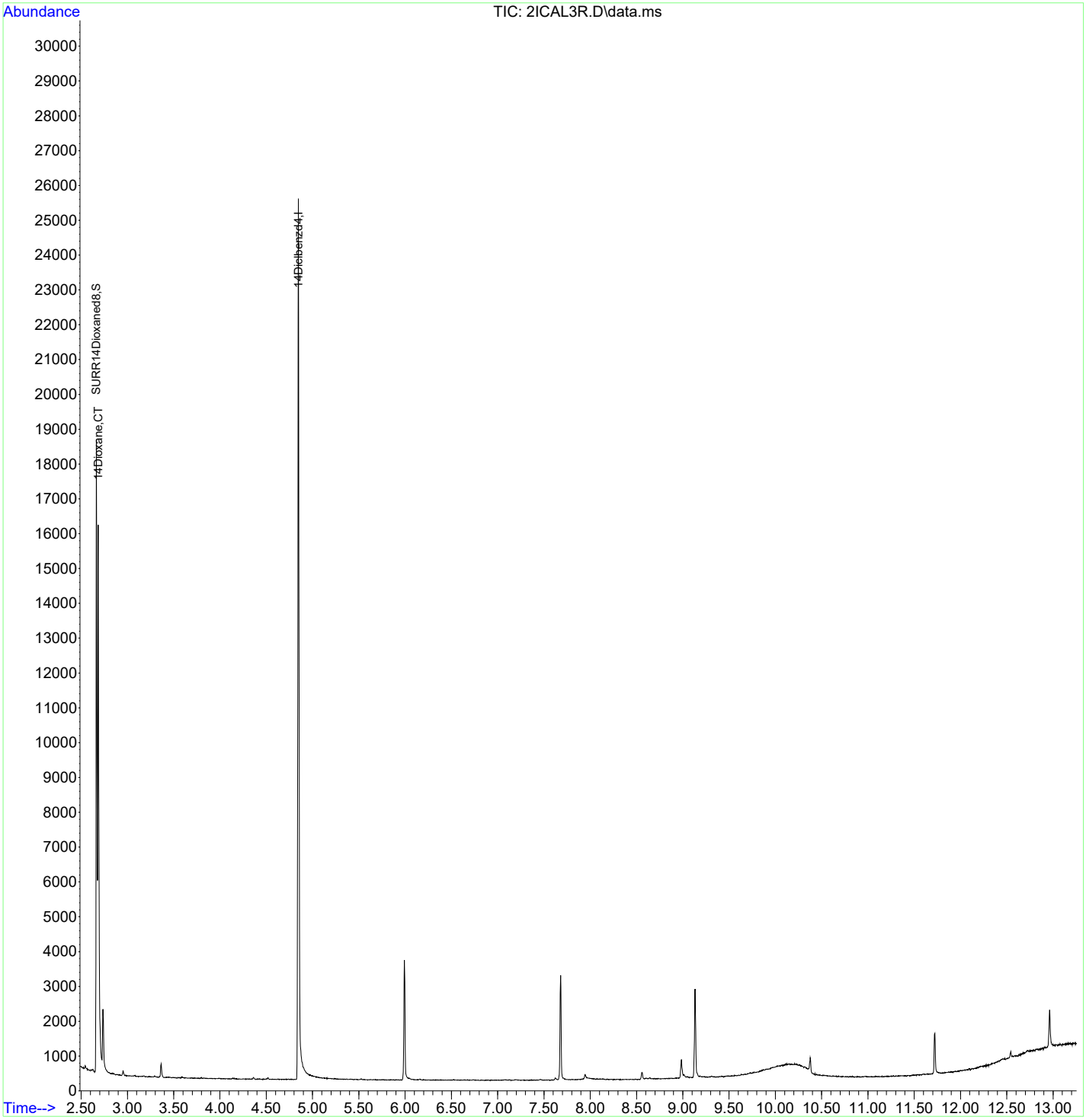
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 23007 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.664 | 64 | 5722 | 47.73 | %REC | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 47.73% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.684 | 58 | 5741 | 0.4918 | ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL3R.D Vial: 4
Acq On : 22 Nov 2019 11:09 Operator: RPN
Sample : ICAL 0.5 ug/ml SVMS8545 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:46 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL4.D Vial: 5
Acq On : 21 Nov 2019 19:25 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8546 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

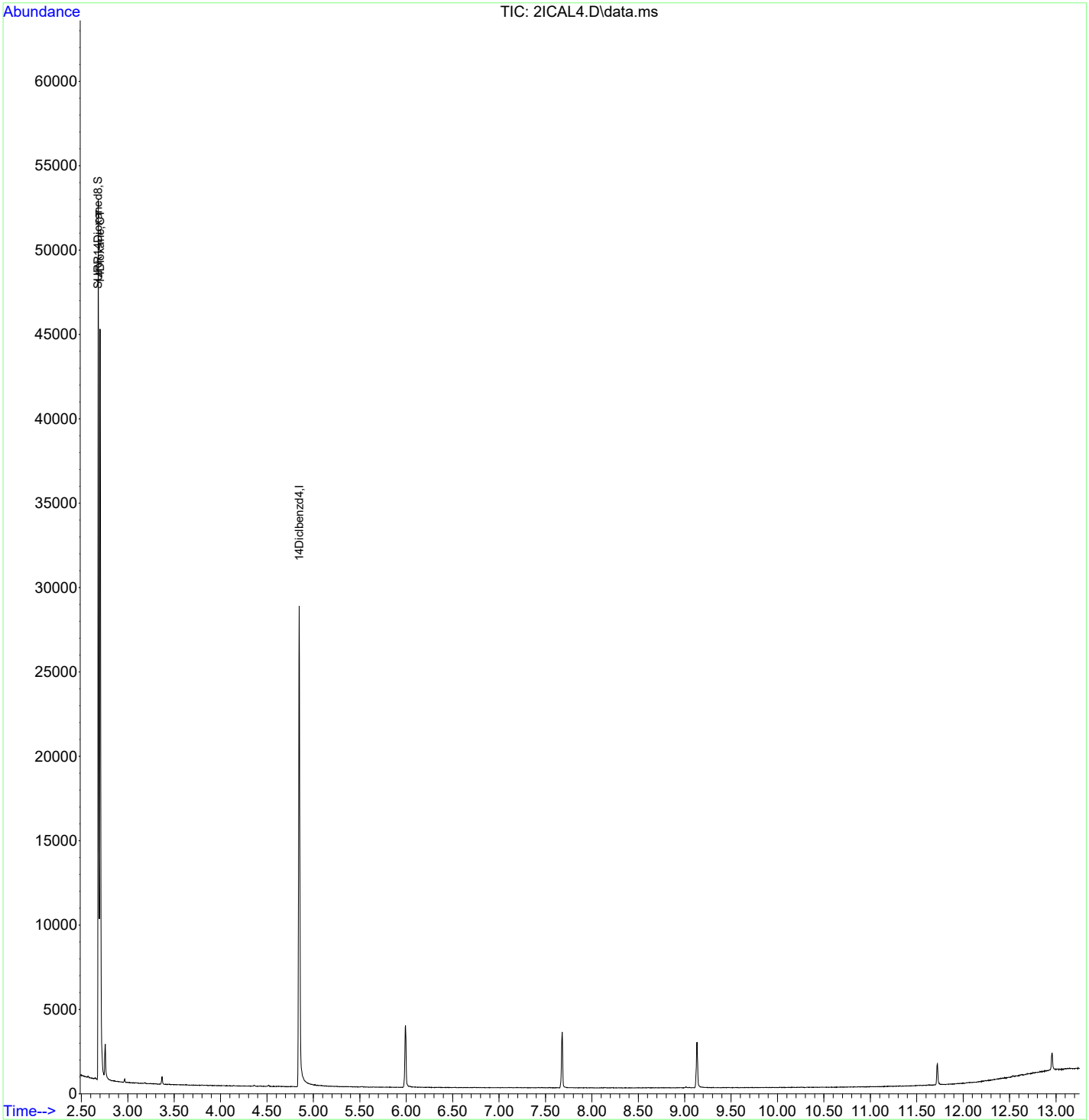
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 27022 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.681 | 64 | 14166 | 100.61 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.61% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.702 | 58 | 13822 | 1.0082 | ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL4.D Vial: 5
Acq On : 21 Nov 2019 19:25 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8546 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL5.D Vial: 6
Acq On : 21 Nov 2019 19:45 Operator: RPN
Sample : ICAL 1.5 ug/ml SVMS8547 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:51 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

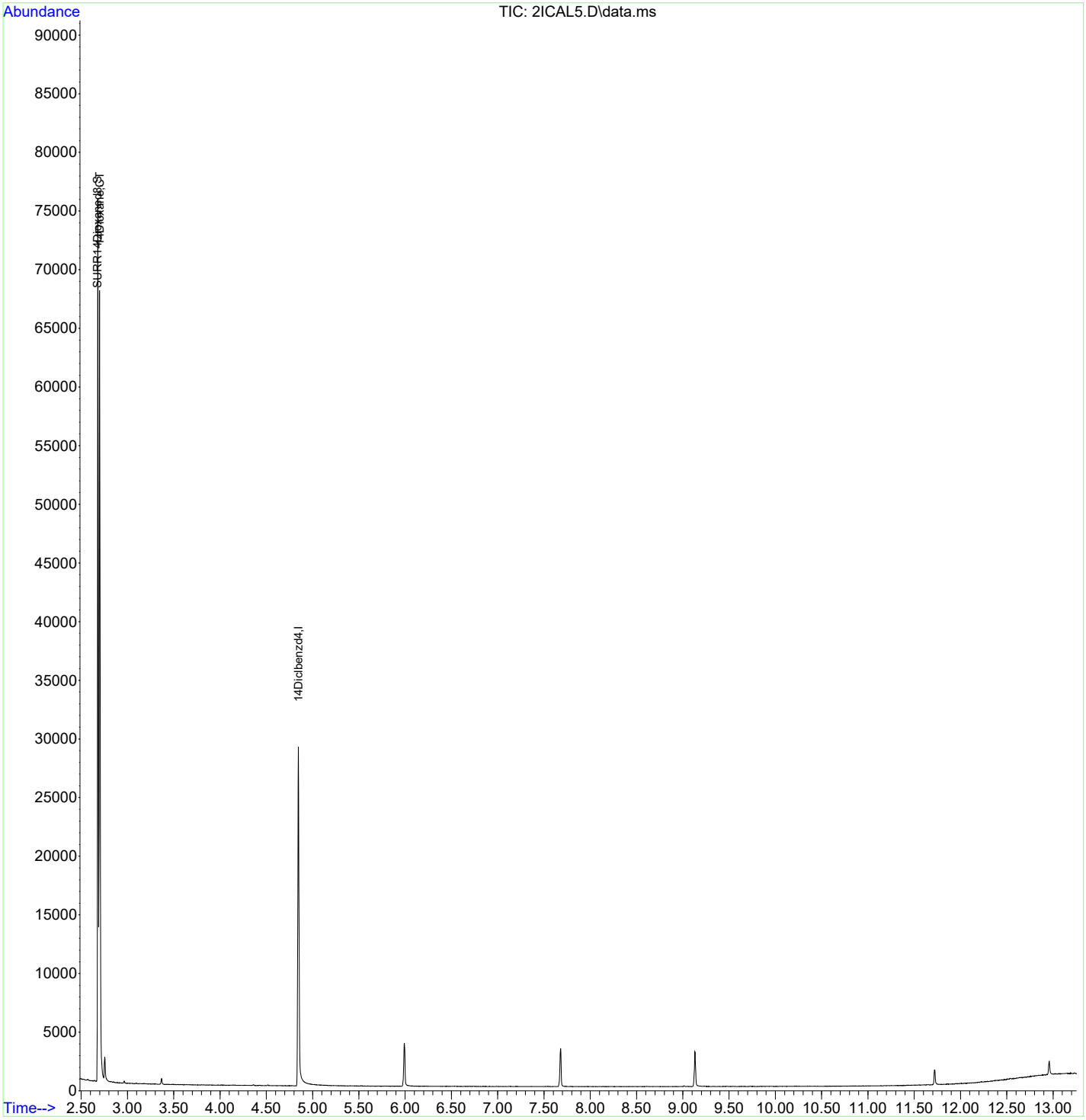
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 27550 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.678 | 64 | 21134 | 147.22 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 147.22% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.699 | 58 | 20253 | 1.4490 | ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL5.D Vial: 6
Acq On : 21 Nov 2019 19:45 Operator: RPN
Sample : ICAL 1.5 ug/ml SVMS8547 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:51 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL6.D Vial: 7
Acq On : 21 Nov 2019 20:06 Operator: RPN
Sample : ICAL 2.0 ug/ml SVMS8548 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:54 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

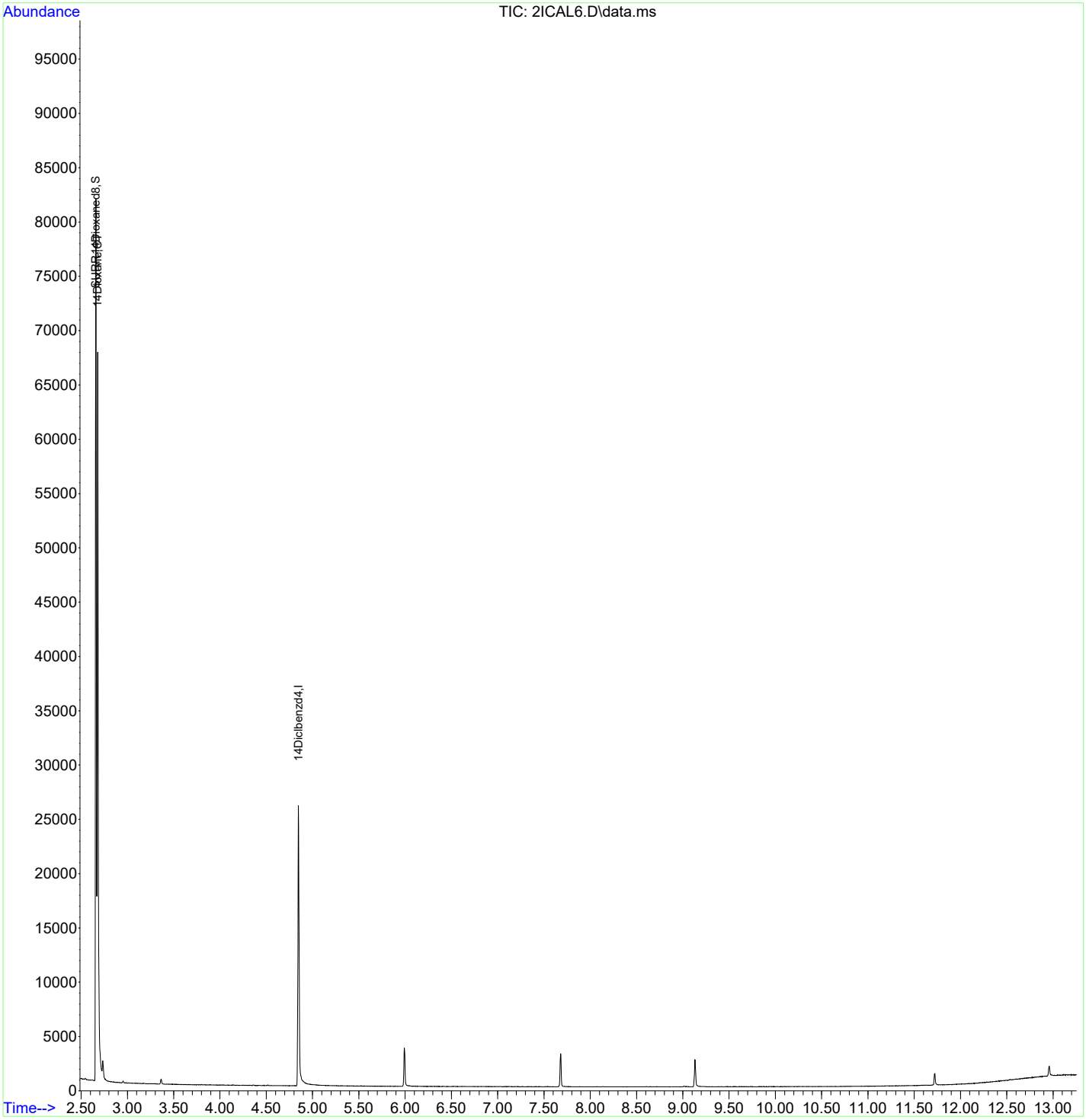
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 23903 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.658 | 64 | 23891 | 191.82 | %REC | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 191.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.679 | 58 | 22863 | 1.8853 | ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL6.D Vial: 7
Acq On : 21 Nov 2019 20:06 Operator: RPN
Sample : ICAL 2.0 ug/ml SVMS8548 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:54 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL7.D Vial: 8
Acq On : 21 Nov 2019 20:26 Operator: RPN
Sample : ICAL 2.5 ug/ml SVMS8549 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:56 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

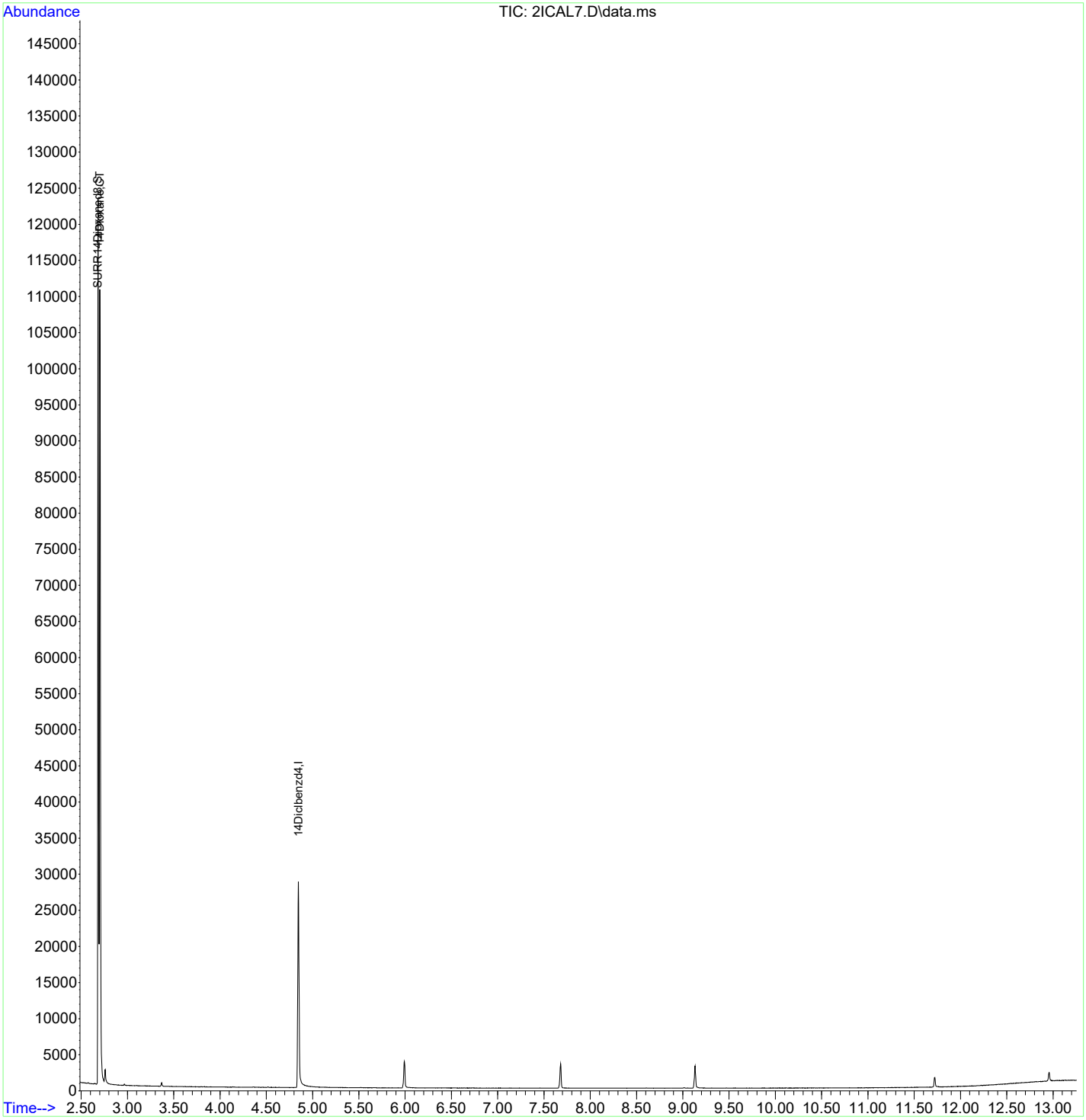
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 28127 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.681 | 64 | 34057 | 232.37 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 232.37% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.702 | 58 | 32229 | 2.2585 | ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICAL7.D Vial: 8
Acq On : 21 Nov 2019 20:26 Operator: RPN
Sample : ICAL 2.5 ug/ml SVMS8549 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:11:56 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:04:52 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112119\2ICV1.D Vial: 9
Acq On : 21 Nov 2019 20:46 Operator: RPN
Sample : ICV 1.0 ug/ml SVMS8550 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:27:05 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 1 I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 74 | 0.00 |
| 2 S | SURR14Dioxaned8 | 100.000 | 102.719 | -2.7 | 76 | -0.04 |
| 3 CT | 14Dioxane | 1.000 | 0.921 | 7.9 | 68 | -0.04 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICV1.D Vial: 9
Acq On : 21 Nov 2019 20:46 Operator: RPN
Sample : ICV 1.0 ug/ml SVMS8550 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:27:05 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

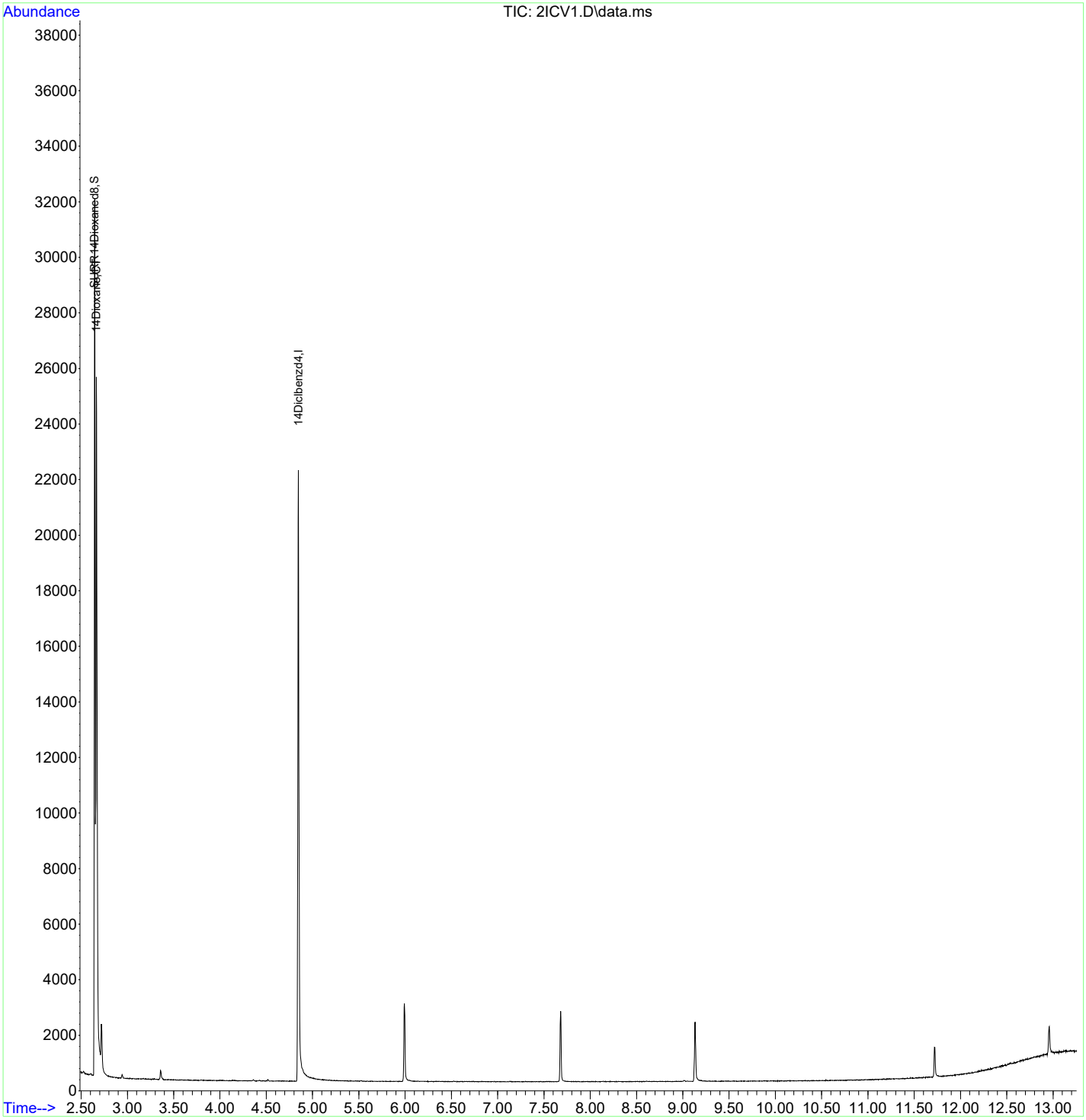
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 19991 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.644 | 64 | 10700 | 102.72 | %REC | -0.04 |
| Spiked Amount 100.000 | | | Recovery = 102.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.664 | 58 | 9341 | 0.9210 | ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112119\2ICV1.D Vial: 9
Acq On : 21 Nov 2019 20:46 Operator: RPN
Sample : ICV 1.0 ug/ml SVMS8550 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 10:27:05 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

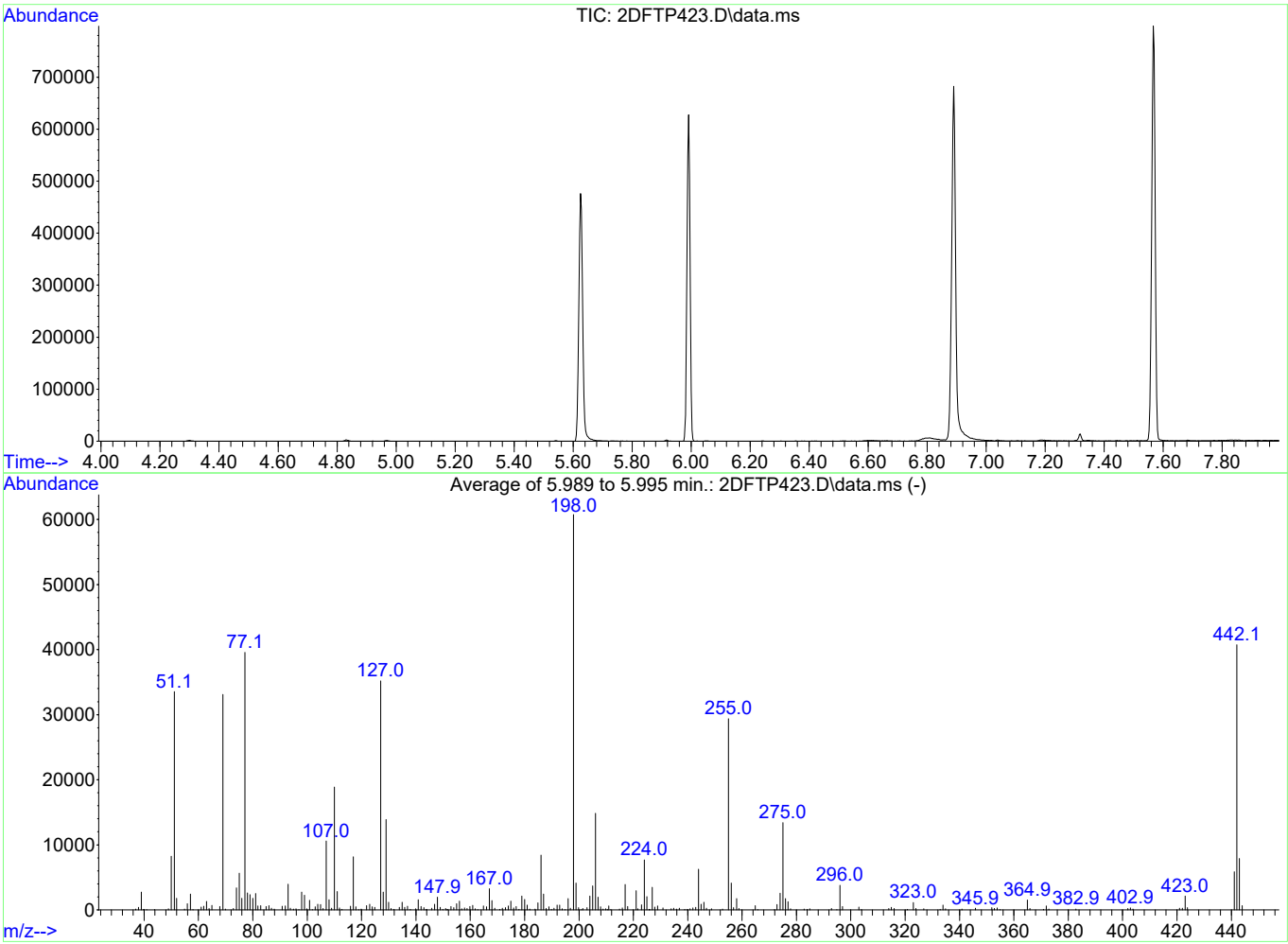


# SEMI - VOLATILE ORGANIC ANALYSIS
# CONTINUING CALIBRATION
# DOCUMENTS

DFTPP

Data File : C:\INSTARCH\DATA\2S112019\2DFTP423.D  Vial: 1
Acq On : 21 Nov 2019 9:48  Operator: RPN
Sample : DFTPP TUNE SVMS8538  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTPP2.M
Title : DFTPP TUNE
Last Update : Fri Nov 22 10:40:45 2019



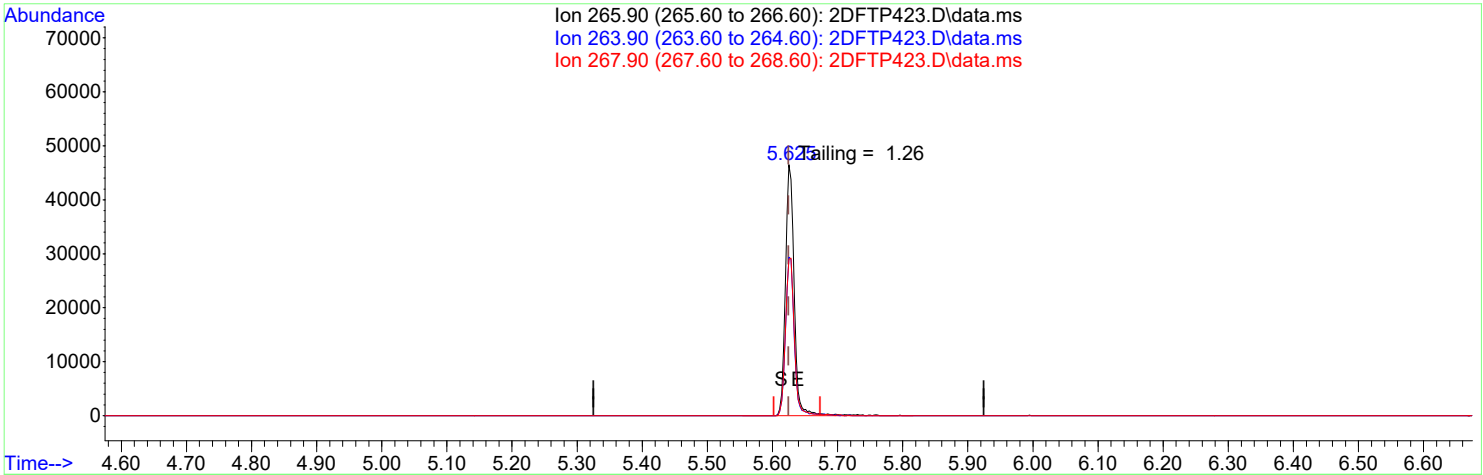

AutoFind: Scans 952, 953, 954; Background Corrected with Scan 944

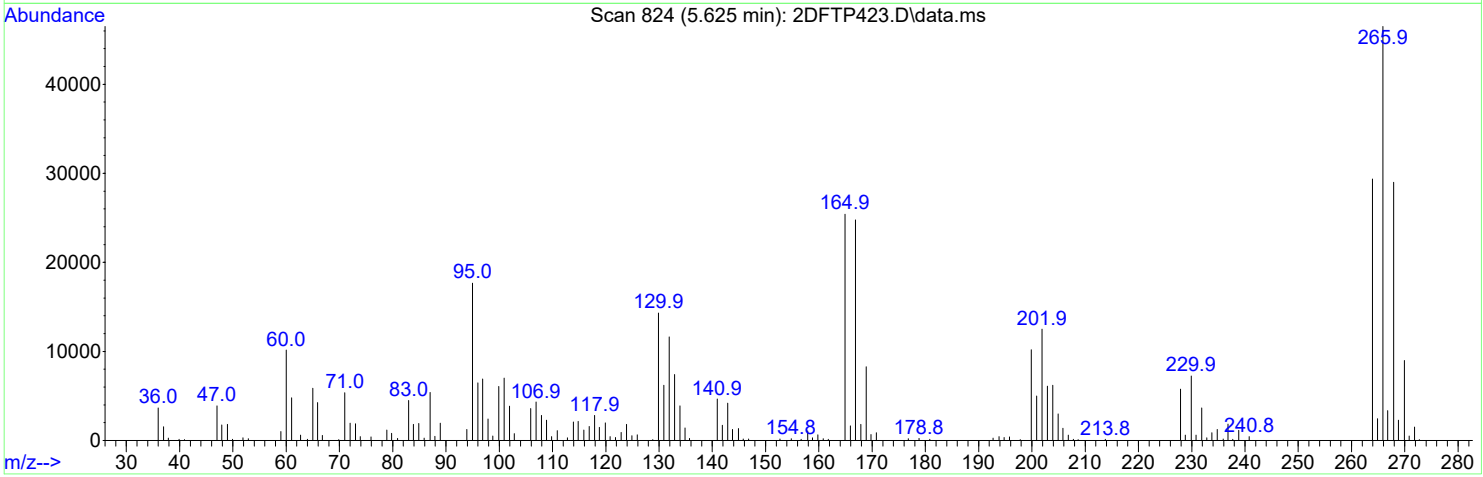
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 55.2 | 33536 | PASS |
| 68 | 69 | 0.00 | 2 | 1.6 | 538 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 138 | PASS |
| 127 | 198 | 10 | 80 | 58.0 | 35213 | PASS |
| 197 | 198 | 0.00 | 2 | 0.5 | 279 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 60749 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 4113 | PASS |
| 275 | 198 | 10 | 60 | 22.0 | 13393 | PASS |
| 365 | 198 | 1 | 100 | 2.5 | 1506 | PASS |
| 441 | 442 | 0.01 | 24 | 14.4 | 5868 | PASS |
| 442 | 198 | 50 | 100 | 67.0 | 40731 | PASS |
| 443 | 442 | 15 | 24 | 19.4 | 7895 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112019\2DFTP423.D  Vial: 1
Acq On : 21 Nov 2019 9:48  Operator: RPN
Sample : DFTPP TUNE SVMS8538  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 10:42:49 2019

Quant Method : C:\INSTARCH\METHOD\2DFTPP2.M
Quant Title : DFTPP TUNE
QLast Update : Fri Nov 22 10:40:45 2019
Response via : Initial Calibration
DataAcq Meth:2DFTPP2.M




TIC: 2DFTP423.D\data.ms

**(1) Pentachlorophenol**

**5.625min (+ 0.000) 2.46 ng**

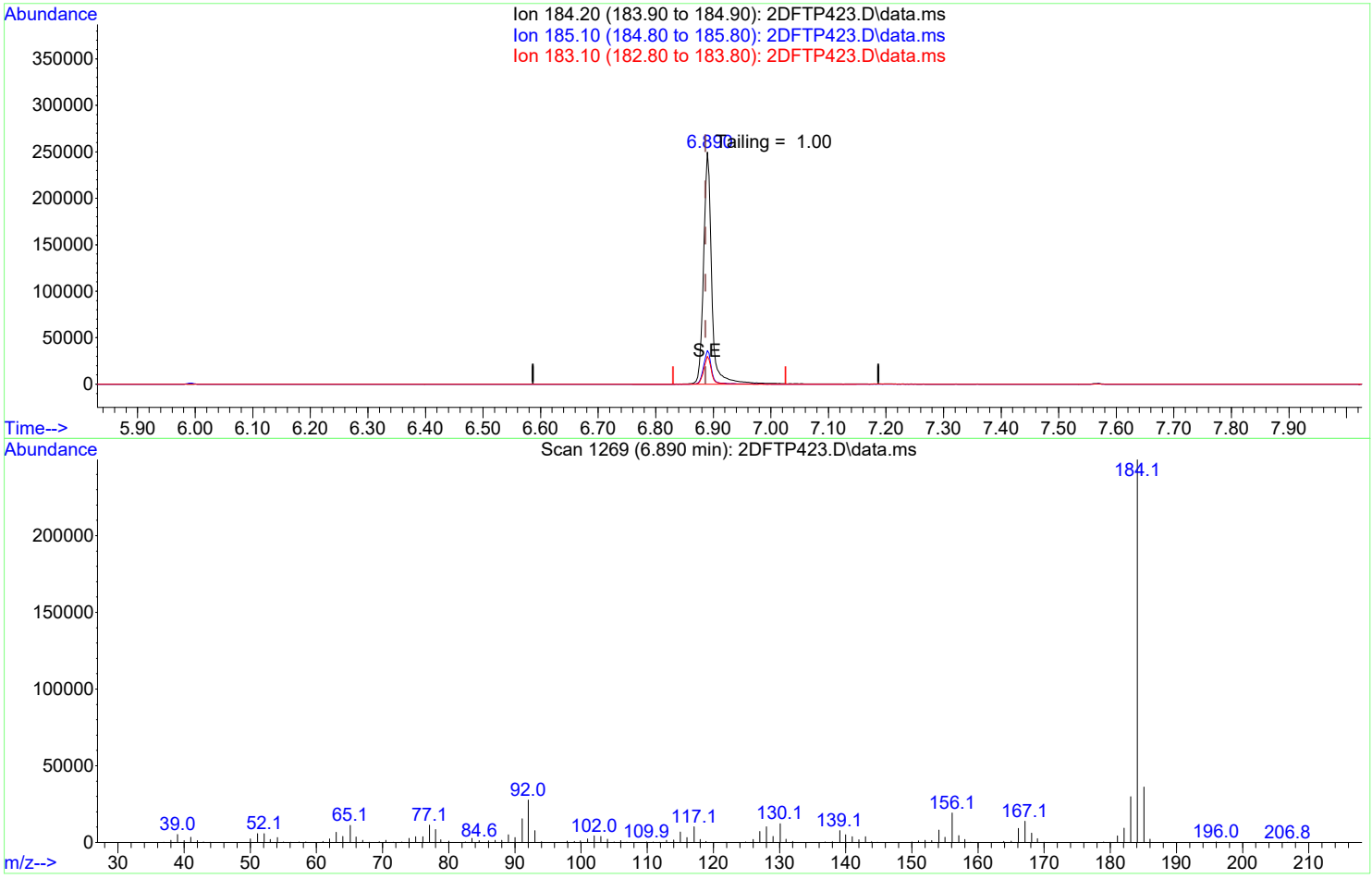
**response 42687**

| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 63.90 | 63.53 |
| 267.90 | 64.40 | 64.52 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112019\2DFTP423.D Vial: 1
Acq On : 21 Nov 2019 9:48 Operator: RPN
Sample : DFTPP TUNE SVMS8538 Inst : SVMS2
Misc : SVMS2, 50ng DFTPP Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 10:42:49 2019

Quant Method : C:\INSTARCH\METHOD\2DFTPP2.M
Quant Title : DFTPP TUNE
QLast Update : Fri Nov 22 10:40:45 2019
Response via : Initial Calibration
DataAcq Meth:2DFTPP2.M




TIC: 2DFTP423.D\data.ms

**(3) Benzidine**

**6.890min (+ 0.003) 3.80 ng**

**response 249685**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.80 | 13.97 |
| 183.10 | 11.70 | 11.30 |
| 0.00 | 0.00 | 0.00 |

| | |
|---|---|
| Data File Name | 2DFTP423.D |
| Vial Number | 1 |
| Data File Path | C:\INSTARCH\DATA\2S112019\ |
| Operator | RPN |
| Date Acquired | 11/21/2019 9:48 |
| Instrument Name | SVMS2 |
| Sample Name | DFTPP TUNE SVMS8538 |
| Sample Multiplier | 1 |
| Misc Info | SVMS2, 50ng DFTPP |
| Calibration Title | DFTPP TUNE |
| Last Calibration Update | Fri Nov 22 10:40:45 2019 |

| # | Name | Ret Time | Target Response |
|---|---|---|---|
| 1) | Pentachlorophenol | 5.63 | 42687 |
| 2) | DFTPP | 5.99 | 49827 |
| 3) | Benzidine | 6.89 | 249685 |
| 4) | DDE | 7.04 | 189 |
| 5) | DDD | 7.32 | 1931 |
| 6) | DDT | 7.57 | 108232 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 1.92\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 20.000 | 20.000 | 0.0 | 164 | -0.01 |
| 2 | CT | Ntrsdimeth | 20.000 | 20.938 | -4.7 | 166 | 0.04 |
| 3 | CT | Pyridine | 20.000 | 20.420 | -2.1 | 161 | 0.04 |
| 4 | S | SURR2Flphenol | 50.000 | 55.406 | -10.8 | 170 | 0.00 |
| 5 | CT | Aniline | 20.000 | 21.990 | -9.9 | 172 | -0.01 |
| 6 | CPT | bis2Clethletr | 20.000 | 20.895 | -4.5 | 158 | 0.00 |
| 7 | S | SURRPhenol-d5 | 50.000 | 53.202 | -6.4 | 162 | -0.01 |
| 8 | CPT | Phenol | 20.000 | 21.305 | -6.5 | 163 | -0.02 |
| 9 | CPT | 2-Cl-phenol | 20.000 | 21.627 | -8.1 | 163 | -0.01 |
| 10 | CT | 13Diclbenz | 20.000 | 21.047 | -5.2 | 164 | -0.01 |
| 11 | CT | 14Diclbenz | 20.000 | 20.835 | -4.2 | 161 | -0.01 |
| 12 | CT | 12Diclbenz | 20.000 | 20.994 | -5.0 | 161 | -0.01 |
| 13 | CT | Benzyl alcoho | 20.000 | 21.107 | -5.5 | 166 | 0.00 |
| 14 | CPT | bis2clispreth | 20.000 | 21.086 | -5.4 | 161 | -0.01 |
| 15 | CPT | 2Methylphenol | 20.000 | 21.072 | -5.4 | 156 | -0.01 |
| 16 | CT | Ntrspyrrol | 20.000 | 20.268 | -1.3 | 160 | 0.00 |
| 17 | CPT | Acetophenone | 20.000 | 20.743 | -3.7 | 159 | 0.00 |
| 18 | CPT | Hexaclethane | 20.000 | 20.997 | -5.0 | 161 | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 20.000 | 20.959 | -4.8 | 158 | 0.00 |
| 20 | CPT | 3&4Methylphenol | 20.000 | 21.097 | -5.5 | 157 | -0.01 |
| 21 | I | Naphthalened8 | 20.000 | 20.000 | 0.0 | 153 | 0.00 |
| 22 | S | SURRNitrbenzened5 | 100.000 | 109.834 | -9.8 | 159 | 0.00 |
| 23 | CPT | Nitrobenzene | 20.000 | 21.924 | -9.6 | 159 | 0.00 |
| 24 | CPT | Isophorone | 20.000 | 21.935 | -9.7 | 159 | 0.00 |
| 25 | CPT | 2-Nitrophenol | 20.000 | 22.503 | -12.5 | 157 | 0.00 |
| 26 | CPT | 24Dimthpheno | 20.000 | 21.278 | -6.4 | 156 | 0.00 |
| 27 | CPT | bis2clethoxym | 20.000 | 21.530 | -7.7 | 157 | 0.00 |
| 28 | CPT | 24Diclphenol | 20.000 | 21.876 | -9.4 | 153 | 0.00 |
| 29 | CT | 124Triclbenz | 20.000 | 21.575 | -7.9 | 158 | 0.00 |
| 30 | CT | Benzoic acid | 20.000 | 22.219 | -11.1 | 184 | 0.00 |
| 31 | CPT | Naphthalene | 20.000 | 20.970 | -4.8 | 153 | 0.00 |
| 32 | CPT | 4-Cl-aniline | 20.000 | 20.698 | -3.5 | 153 | 0.00 |
| 33 | CT | 26Diclphenol | 20.000 | 21.384 | -6.9 | 150 | 0.00 |
| 34 | CT | Hexaclprop | 20.000 | 21.937 | -9.7 | 156 | 0.00 |
| 35 | CPT | Hexaclbutdien | 20.000 | 21.480 | -7.4 | 157 | 0.00 |
| 36 | CPT | 4Cl3methylphe | 20.000 | 22.190 | -11.0 | 159 | 0.00 |
| 37 | CPT | 2Methylnaphth | 20.000 | 21.140 | -5.7 | 153 | 0.00 |
| 38 | CT | 1Methylnaphth | 20.000 | 20.798 | -4.0 | 151 | 0.00 |
| 39 | I | Acenaphthened10 | 20.000 | 20.000 | 0.0 | 148 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 20.000 | 21.548 | -7.7 | 151 | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 20.000 | 21.692 | -8.5 | 151 | 0.00 |
| 42 | CPT | 246Triclpheno | 20.000 | 22.065 | -10.3 | 159 | 0.00 |
| 43 | CPT | 245Triclpheno | 20.000 | 22.959 | -14.8 | 149 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 100.000 | 108.738 | -8.7 | 153 | 0.00 |
| 45 | CPT | 2Clnaphthalen | 20.000 | 21.717 | -8.6 | 152 | 0.00 |
| 46 | CPT | 2Nitroaniline | 20.000 | 22.230 | -11.2 | 160 | 0.00 |
| 47 | CPT | Acnaphthylene | 20.000 | 21.462 | -7.3 | 148 | 0.00 |
| 48 | CPT | Dimethylphtha | 20.000 | 19.827 | 0.9 | 132 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 20.000 | 20.021 | -0.1 | 129 | 0.00 |
| 50 | CPT | Acenaphthene | 20.000 | 21.567 | -7.8 | 150 | 0.00 |
| 51 | CPT | 3Nitroaniline | 20.000 | 17.778 | 11.1 | 125 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 20.000 | 19.418 | 2.9 | 145 | 0.00 |
| 53 | CPT | Dibenzofuran | 20.000 | 21.768 | -8.8 | 149 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 20.000 | 20.768 | -3.8 | 133 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 20.000 | 17.566 | 12.2 | 117 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 20.000 | 22.772 | -13.9 | 172 | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 20.000 | 21.183 | -5.9 | 135 | 0.00 |
| 58 | CPT | Fluorene | 20.000 | 21.613 | -8.1 | 148 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 20.000 | 20.804 | -4.0 | 148 | 0.00 |
| 60 | CPT | Diethylphthal | 20.000 | 19.709 | 1.5 | 133 | 0.00 |
| 61 | CPT | 4Nitroaniline | 20.000 | 20.919 | -4.6 | 135 | 0.00 |
| 62 | S | SURR246Tribrphenl | 50.000 | 47.959 | 4.1 | 121 | 0.00 |
| 63 | I | Phenanthrd10 | 20.000 | 20.000 | 0.0 | 130 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 20.000 | 21.134 | -5.7 | 127 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 40.000 | 42.310 | -5.8 | 121 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 40.000 | 42.081 | -5.2 | 121 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 20.000 | 21.658 | -8.3 | 126 | 0.00 |
| 68 | CPT | Hexaclbenzene | 20.000 | 21.469 | -7.3 | 132 | 0.00 |
| 69 | CPT | Pentaclphenol | 20.000 | 22.936 | -14.7 | 157 | 0.00 |
| 70 | CPT | Phenanthrene | 20.000 | 20.860 | -4.3 | 132 | 0.00 |
| 71 | CPT | Anthracene | 20.000 | 21.819 | -9.1 | 131 | 0.00 |
| 72 | CPT | Carbazole | 20.000 | 20.976 | -4.9 | 138 | 0.00 |
| 73 | CPT | Dinbtylphthal | 20.000 | 21.883 | -9.4 | 134 | 0.00 |
| 74 | CPT | Fluoranthene | 20.000 | 21.292 | -6.5 | 130 | 0.00 |
| 75 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 118 | 0.00 |
| 76 | CT | Benzidine | 20.000 | 21.413 | -7.1 | 121 | 0.00 |
| 77 | CPT | Pyrene | 20.000 | 22.140 | -10.7 | 129 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 100.000 | 110.478 | -10.5 | 127 | 0.00 |
| 79 | CPT | Btylbzylphth | 20.000 | 23.069 | -15.3 | 125 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 20.000 | 23.529 | -17.6 | 131 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 20.000 | 17.279 | 13.6 | 98 | 0.00 |
| 82 | CPT | B[a]anthracen | 20.000 | 21.446 | -7.2 | 121 | 0.00 |
| 83 | CPT | Chrysene | 20.000 | 21.765 | -8.8 | 123 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 20.000 | 23.024 | -15.1 | 125 | 0.00 |
| 85 | CPT | Dinoctylphthl | 20.000 | 21.882 | -9.4 | 125 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 118 | 0.00 |
| 87 | CPT | B[b]fluoranth | 20.000 | 21.240 | -6.2 | 119 | 0.00 |
| 88 | CPT | B[k]fluoranth | 20.000 | 21.450 | -7.2 | 123 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 20.000 | 21.497 | -7.5 | 119 | 0.00 |
| 90 | CPT | Indeno-pyrene | 20.000 | 23.559 | -17.8 | 123 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 20.000 | 23.323 | -16.6 | 122 | 0.00 |
| 92 | CPT | B[ghi]perylen | 20.000 | 23.959 | -19.8 | 125 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 164# | -0.01 |
| 2 | CT | Ntrsdimeth | 1.115 | 1.204 | -8.0 | 166# | 0.04 |
| 3 | CT | Pyridine | 1.623 | 1.730 | -6.6 | 161# | 0.04 |
| 4 | S | SURR2Flphenol | 0.570 | 0.632 | -10.9 | 170# | 0.00 |
| 5 | CT | Aniline | 2.266 | 2.492 | -10.0 | 172# | -0.01 |
| 6 | CPT | bis2Clethletr | 1.696 | 1.772 | -4.5 | 158# | 0.00 |
| 7 | S | SURRPhenol-d5 | 0.733 | 0.780 | -6.4 | 162# | -0.01 |
| 8 | CPT | Phenol | 1.897 | 2.021 | -6.5 | 163# | -0.02 |
| 9 | CPT | 2-Cl-phenol | 1.448 | 1.566 | -8.1 | 163# | -0.01 |
| 10 | CT | 13Diclbenz | 1.570 | 1.652 | -5.2 | 164# | -0.01 |
| 11 | CT | 14Diclbenz | 1.565 | 1.630 | -4.2 | 161# | -0.01 |
| 12 | CT | 12Diclbenz | 1.420 | 1.491 | -5.0 | 161# | -0.01 |
| 13 | CT | Benzyl alcoho | 0.852 | 0.984 | -15.5 | 166# | 0.00 |
| 14 | CPT | bis2clispreth | 2.361 | 2.489 | -5.4 | 161# | -0.01 |
| 15 | CPT | 2Methylphenol | 1.103 | 1.162 | -5.3 | 156# | -0.01 |
| 16 | CT | Ntrspyrrol | 0.700 | 0.758 | -8.3 | 160# | 0.00 |
| 17 | CPT | Acetophenone | 1.875 | 1.944 | -3.7 | 159# | 0.00 |
| 18 | CPT | Hexaclethane | 0.586 | 0.615 | -4.9 | 161# | 0.00 |
| 19 | CPT | N-Ntrsdinprop | 1.167 | 1.223 | -4.8 | 158# | 0.00 |
| 20 | CPT | 3&4Methylphenol | 1.345 | 1.419 | -5.5 | 157# | -0.01 |
| 21 | I | Naphthalened8 | 1.000 | 1.000 | 0.0 | 153# | 0.00 |
| 22 | S | SURRNitrbenzened5 | 0.088 | 0.096 | -9.1 | 159# | 0.00 |
| 23 | CPT | Nitrobenzene | 0.459 | 0.503 | -9.6 | 159# | 0.00 |
| 24 | CPT | Isophorone | 0.809 | 0.888 | -9.8 | 159# | 0.00 |
| 25 | CPT | 2-Nitrophenol | 0.196 | 0.220 | -12.2 | 157# | 0.00 |
| 26 | CPT | 24Dimthpheno | 0.319 | 0.339 | -6.3 | 156# | 0.00 |
| 27 | CPT | bis2clethoxym | 0.463 | 0.498 | -7.6 | 157# | 0.00 |
| 28 | CPT | 24Diclphenol | 0.268 | 0.294 | -9.7 | 153# | 0.00 |
| 29 | CT | 124Triclbenz | 0.294 | 0.317 | -7.8 | 158# | 0.00 |
| 30 | CT | Benzoic acid | 0.171 | 0.208 | -21.6# | 184# | 0.00 |
| 31 | CPT | Naphthalene | 1.059 | 1.111 | -4.9 | 153# | 0.00 |
| 32 | CPT | 4-Cl-aniline | 0.363 | 0.376 | -3.6 | 153# | 0.00 |
| 33 | CT | 26Diclphenol | 0.201 | 0.215 | -7.0 | 150# | 0.00 |
| 34 | CT | Hexaclprop | 0.175 | 0.192 | -9.7 | 156# | 0.00 |
| 35 | CPT | Hexaclbutdien | 0.140 | 0.151 | -7.9 | 157# | 0.00 |
| 36 | CPT | 4Cl3methylphe | 0.315 | 0.349 | -10.8 | 159# | 0.00 |
| 37 | CPT | 2Methylnaphth | 0.718 | 0.759 | -5.7 | 153# | 0.00 |
| 38 | CT | 1Methylnaphth | 0.590 | 0.614 | -4.1 | 151# | 0.00 |
| 39 | I | Acenaphthened10 | 1.000 | 1.000 | 0.0 | 148 | 0.00 |
| 40 | CPT | Hxclcycpentdi | 0.281 | 0.324 | -15.3 | 151# | 0.00 |
| 41 | CPT | 1245Tetrclbenz | 0.521 | 0.565 | -8.4 | 151# | 0.00 |
| 42 | CPT | 246Triclpheno | 0.356 | 0.410 | -15.2 | 159# | 0.00 |
| 43 | CPT | 245Triclpheno | 0.360 | 0.413 | -14.7 | 149 | 0.00 |
| 44 | S | SURR2Flbiphenyl | 0.273 | 0.297 | -8.8 | 153# | 0.00 |
| 45 | CPT | 2Clnaphthalen | 1.185 | 1.286 | -8.5 | 152# | 0.00 |
| 46 | CPT | 2Nitroaniline | 0.476 | 0.563 | -18.3 | 160# | 0.00 |
| 47 | CPT | Acnaphthylene | 1.893 | 2.032 | -7.3 | 148 | 0.00 |
| 48 | CPT | Dimethylphtha | 1.238 | 1.227 | 0.9 | 132 | 0.00 |
| 49 | CPT | 26Dinitrotolu | 0.299 | 0.299 | 0.0 | 129 | 0.00 |
| 50 | CPT | Acenaphthene | 1.256 | 1.354 | -7.8 | 150 | 0.00 |
| 51 | CPT | 3Nitroaniline | 0.313 | 0.278 | 11.2 | 125 | 0.00 |

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | CPT | 24Dinitphenol | 0.149 | 0.164 | -10.1 | 145 | 0.00 |
| 53 | CPT | Dibenzofuran | 1.620 | 1.763 | -8.8 | 149 | 0.00 |
| 54 | CPT | 24Dinitrotolu | 0.381 | 0.396 | -3.9 | 133 | 0.00 |
| 55 | CPT | 4-Nitrophenol | 0.339 | 0.298 | 12.1 | 117 | 0.00 |
| 56 | CT | 2,3,5,6-Tetrachlorop | 0.285 | 0.342 | -20.0# | 172# | 0.00 |
| 57 | CPT | 2,3,4,6-Tetrachlorop | 0.260 | 0.276 | -6.2 | 135 | 0.00 |
| 58 | CPT | Fluorene | 1.332 | 1.439 | -8.0 | 148 | 0.00 |
| 59 | CPT | 4Clphlphlethr | 0.614 | 0.638 | -3.9 | 148 | 0.00 |
| 60 | CPT | Diethylphthal | 1.303 | 1.284 | 1.5 | 133 | 0.00 |
| 61 | CPT | 4Nitroaniline | 0.324 | 0.339 | -4.6 | 135 | 0.00 |
| 62 | S | SURR246Tribrphenl | 0.047 | 0.045 | 4.3 | 121 | 0.00 |
| 63 | I | Phenanthrd10 | 1.000 | 1.000 | 0.0 | 130 | 0.00 |
| 64 | CPT | 46Dinit2mylph | 0.163 | 0.176 | -8.0 | 127 | 0.00 |
| 65 | CPT | Ntrsdiphlam&Diphlam | 0.599 | 0.634 | -5.8 | 121 | 0.00 |
| 66 | CT | Azobenz&12Diphlhyd | 0.263 | 0.276 | -4.9 | 121 | 0.00 |
| 67 | CPT | 4Brphlphlethr | 0.201 | 0.217 | -8.0 | 126 | 0.00 |
| 68 | CPT | Hexaclbenzene | 0.200 | 0.214 | -7.0 | 132 | 0.00 |
| 69 | CPT | Pentaclphenol | 0.108 | 0.140 | -29.6# | 157# | 0.00 |
| 70 | CPT | Phenanthrene | 1.233 | 1.286 | -4.3 | 132 | 0.00 |
| 71 | CPT | Anthracene | 1.152 | 1.257 | -9.1 | 131 | 0.00 |
| 72 | CPT | Carbazole | 0.897 | 0.941 | -4.9 | 138 | 0.00 |
| 73 | CPT | Dinbtylphthal | 1.358 | 1.486 | -9.4 | 134 | 0.00 |
| 74 | CPT | Fluoranthene | 1.230 | 1.310 | -6.5 | 130 | 0.00 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 118 | 0.00 |
| 76 | CT | Benzidine | 0.423 | 0.428 | -1.2 | 121 | 0.00 |
| 77 | CPT | Pyrene | 1.500 | 1.661 | -10.7 | 129 | 0.00 |
| 78 | S | SURRTerphenyl-d14 | 0.185 | 0.204 | -10.3 | 127 | 0.00 |
| 79 | CPT | Btylbzylphth | 1.038 | 1.197 | -15.3 | 125 | 0.00 |
| 80 | CT | bis2Ethlhxlad | 0.669 | 0.787 | -17.6 | 131 | 0.00 |
| 81 | CPT | 33Diclbnzidin | 0.365 | 0.316 | 13.4 | 98 | 0.00 |
| 82 | CPT | B[a]anthracen | 1.316 | 1.411 | -7.2 | 121 | 0.00 |
| 83 | CPT | Chrysene | 1.287 | 1.401 | -8.9 | 123 | 0.00 |
| 84 | CPT | bis2Ethlhxlph | 1.025 | 1.180 | -15.1 | 125 | 0.00 |
| 85 | CPT | Dinoctylphthl | 1.793 | 2.120 | -18.2 | 125 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 118 | 0.00 |
| 87 | CPT | B[b]fluoranth | 1.105 | 1.174 | -6.2 | 119 | 0.00 |
| 88 | CPT | B[k]fluoranth | 1.086 | 1.164 | -7.2 | 123 | 0.00 |
| 89 | CPT | Benz[a]pyrene | 1.059 | 1.139 | -7.6 | 119 | 0.00 |
| 90 | CPT | Indeno-pyrene | 1.203 | 1.417 | -17.8 | 123 | 0.00 |
| 91 | CPT | Dib[ah]anthr | 0.964 | 1.125 | -16.7 | 122 | 0.00 |
| 92 | CPT | B[ghi]perylen | 1.050 | 1.258 | -19.8 | 125 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 3

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 14Diclbenzd4 | 5.090 | 152 | 44889 | 20.00 | ug/mL | -0.01 |
| 21) Naphthalened8 | 6.414 | 136 | 153971 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.761 | 164 | 75159 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.593 | 188 | 89420 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.071 | 240 | 72950 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 11.125 | 264 | 90733 | 20.00 | ug/mL | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) SURR2Flphenol | 3.740 | 112 | 70897 | 55.41 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 55.41% | | | |
| 7) SURRPhenol-d5 | 4.632 | 99 | 87528 | 53.20 | %REC | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 53.20% | | | |
| 22) SURRNitrbenzened5 | 5.712 | 82 | 73993 | 109.83 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 109.83% | | | |
| 44) SURR2Flbiphenyl | 7.292 | 172 | 111497 | 108.74 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 108.74% | | | |
| 62) SURR246Tribrphenl | 8.258 | 330 | 8529 | 47.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 47.96% | | | |
| 78) SURRTerphenyl-d14 | 9.397 | 244 | 74517 | 110.48 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 110.48% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.845 | 74 | 54039 | 20.9381 | ug/mL | 98 |
| 3) Pyridine | 2.879 | 79 | 77667 | 20.4200 | ug/mL | 95 |
| 5) Aniline | 4.695 | 93 | 111846 | 21.9897 | ug/mL | 99 |
| 6) bis2Clethletr | 4.757 | 93 | 79533 | 20.8950 | ug/mL | 98 |
| 8) Phenol | 4.646 | 94 | 90703 | 21.3048 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.840 | 128 | 70312 | 21.6273 | ug/mL | 98 |
| 10) 13Diclbenz | 5.021 | 146 | 74155 | 21.0468 | ug/mL | 97 |
| 11) 14Diclbenz | 5.112 | 146 | 73166 | 20.8351 | ug/mL | 98 |
| 12) 12Diclbenz | 5.294 | 146 | 66926 | 20.9935 | ug/mL | 98 |
| 13) Benzyl alcoho | 5.254 | 108 | 44155 | 21.1071 | ug/mL | 99 |
| 14) bis2clispreth | 5.405 | 45 | 111720 | 21.0858 | ug/mL | 98 |
| 15) 2Methylphenol | 5.380 | 107 | 52168 | 21.0721 | ug/mL | 98 |
| 16) Ntrspyrrol | 5.530 | 100 | 34036 | 20.2682 | ug/mL | 82 |
| 17) Acetophenone | 5.553 | 105 | 87271 | 20.7428 | ug/mL | 97 |
| 18) Hexaclethane | 5.666 | 117 | 27601 | 20.9975 | ug/mL | 97 |
| 19) N-Ntrsdinprop | 5.553 | 70 | 54891 | 20.9588 | ug/mL | 98 |
| 20) 3&4Methylphenol | 5.550 | 107 | 63689 | 21.0965 | ug/mL | 92 |
| 23) Nitrobenzene | 5.732 | 77 | 77518 | 21.9235 | ug/mL | 99 |
| 24) Isophorone | 5.979 | 82 | 136652 | 21.9354 | ug/mL | 99 |
| 25) 2-Nitrophenol | 6.053 | 139 | 33932 | 22.5027 | ug/mL | 99 |
| 26) 24Dimthpheno | 6.101 | 122 | 52273 | 21.2785 | ug/mL | 96 |
| 27) bis2clethoxym | 6.192 | 93 | 76733 | 21.5300 | ug/mL | 97 |
| 28) 24Diclphenol | 6.289 | 162 | 45203 | 21.8757 | ug/mL | 98 |
| 29) 124Triclbenz | 6.363 | 180 | 48799 | 21.5753 | ug/mL | 97 |
| 30) Benzoic acid | 6.201 | 122 | 32017 | 22.2188 | ug/mL | 99 |
| 31) Naphthalene | 6.431 | 128 | 170991 | 20.9704 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.488 | 127 | 57871 | 20.6978 | ug/mL | 98 |
| 33) 26Diclphenol | 6.490 | 162 | 33111 | 21.3842 | ug/mL | 96 |
| 34) Hexaclprop | 6.510 | 213 | 29596 | 21.9374 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.545 | 225 | 23189 | 21.4798 | ug/mL | 98 |
| 36) 4Cl3methylphe | 6.905 | 107 | 53776 | 22.1897 | ug/mL | 95 |
| 37) 2Methylnaphth | 7.016 | 142 | 116836 | 21.1400 | ug/mL | 99 |
| 38) 1Methylnaphth | 7.090 | 141 | 94531 | 20.7985 | ug/mL | 97 |
| 40) Hxclcycpentdi | 7.136 | 237 | 24323 | 21.5479 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

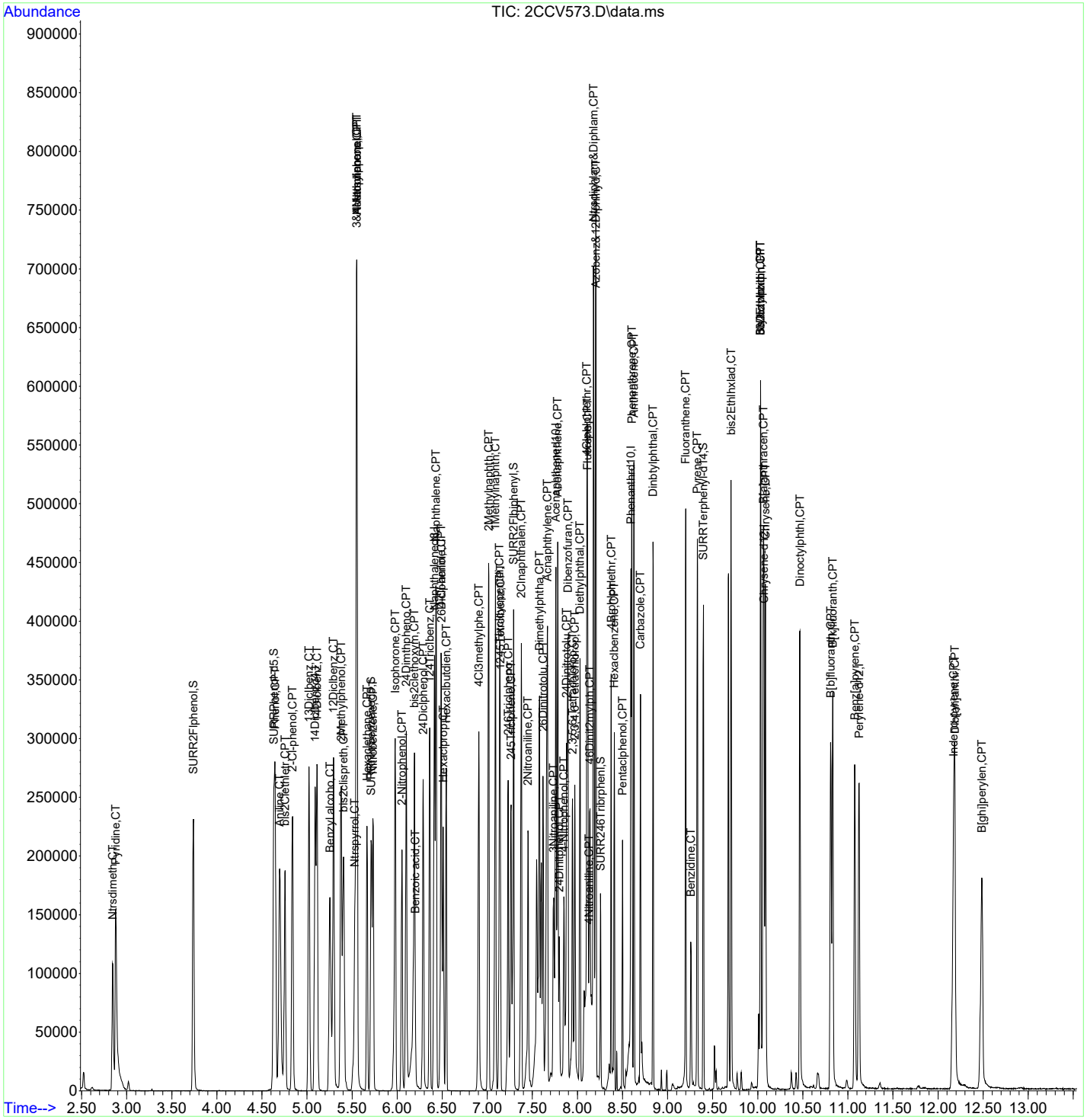
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.144 | 216 | 42498 | 21.6921 ug/mL | 99 |
| 42) 246Triclpheno | 7.232 | 196 | 30793 | 22.0647 ug/mL | 98 |
| 43) 245Triclpheno | 7.263 | 196 | 31019 | 22.9591 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.377 | 162 | 96675 | 21.7165 ug/mL | 98 |
| 46) 2Nitroaniline | 7.451 | 65 | 42298 | 22.2299 ug/mL | 98 |
| 47) Acnaphthylene | 7.667 | 152 | 152694 | 21.4618 ug/mL | 99 |
| 48) Dimethylphtha | 7.579 | 163 | 92232 | 19.8274 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.619 | 165 | 22500 | 20.0209 ug/mL | 88 |
| 50) Acenaphthene | 7.781 | 154 | 101759 | 21.5672 ug/mL | 99 |
| 51) 3Nitroaniline | 7.735 | 138 | 20909 | 17.7784 ug/mL | 96 |
| 52) 24Dinitphenol | 7.798 | 184 | 12321 | 19.4177 ug/mL | 87 |
| 53) Dibenzofuran | 7.894 | 168 | 132512 | 21.7678 ug/mL | 99 |
| 54) 24Dinitrotolu | 7.880 | 165 | 29748 | 20.7679 ug/mL | 90 |
| 55) 4-Nitrophenol | 7.849 | 65 | 22401 | 17.5658 ug/mL | 94 |
| 56) 2,3,5,6-Tetrachlorop | 7.945 | 232 | 25726 | 22.7721 ug/mL | 97 |
| 57) 2,3,4,6-Tetrachlorop | 7.971 | 232 | 20712 | 21.1828 ug/mL | 95 |
| 58) Fluorene | 8.113 | 166 | 108156 | 21.6131 ug/mL | 98 |
| 59) 4Clphlphlethr | 8.104 | 204 | 47971 | 20.8036 ug/mL | 96 |
| 60) Diethylphthal | 8.028 | 149 | 96512 | 19.7091 ug/mL | 98 |
| 61) 4Nitroaniline | 8.127 | 138 | 25494 | 20.9195 ug/mL | 99 |
| 64) 46Dinit2mylph | 8.139 | 198 | 15772 | 21.1340 ug/mL# | 51 |
| 65) Ntrsdiphlam&Diphlam | 8.178 | 169 | 113340 | 42.3102 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.204 | 182 | 49435 | 42.0808 ug/mL | 96 |
| 67) 4Brphlphlethr | 8.374 | 248 | 19423 | 21.6576 ug/mL | 94 |
| 68) Hexaclbenzene | 8.408 | 284 | 19174 | 21.4687 ug/mL | 93 |
| 69) Pentaclphenol | 8.499 | 266 | 12488 | 22.9363 ug/mL | 95 |
| 70) Phenanthrene | 8.605 | 178 | 115019 | 20.8598 ug/mL | 99 |
| 71) Anthracene | 8.627 | 178 | 112409 | 21.8192 ug/mL | 99 |
| 72) Carbazole | 8.698 | 167 | 84164 | 20.9764 ug/mL | 99 |
| 73) Dinbtylphthal | 8.838 | 149 | 132906 | 21.8832 ug/mL | 100 |
| 74) Fluoranthene | 9.201 | 202 | 117117 | 21.2922 ug/mL | 99 |
| 76) Benzidine | 9.258 | 184 | 31246 | 21.4129 ug/mL | 99 |
| 77) Pyrene | 9.329 | 202 | 121168 | 22.1402 ug/mL | 99 |
| 79) Btylbzylphth | 10.031 | 149 | 87309 | 23.0693 ug/mL | 97 |
| 80) bis2Ethlhxlad | 9.704 | 129 | 57385 | 23.5294 ug/mL | 99 |
| 81) 33Diclbnzidin | 10.031 | 252 | 23033 | 17.2789 ug/mL | 99 |
| 82) B[a]anthracen | 10.062 | 228 | 102928 | 21.4459 ug/mL | 98 |
| 83) Chrysene | 10.085 | 228 | 102189 | 21.7650 ug/mL | 100 |
| 84) bis2Ethlhxlph | 10.031 | 149 | 86074 | 23.0239 ug/mL | 99 |
| 85) Dinoctylphthl | 10.469 | 149 | 154640 | 21.8820 ug/mL | 98 |
| 87) B[b]fluoranth | 10.810 | 252 | 106520 | 21.2401 ug/mL | 99 |
| 88) B[k]fluoranth | 10.832 | 252 | 105655 | 21.4500 ug/mL | 99 |
| 89) Benz[a]pyrene | 11.077 | 252 | 103304 | 21.4971 ug/mL | 97 |
| 90) Indeno-pyrene | 12.173 | 276 | 128614 | 23.5591 ug/mL | 98 |
| 91) Dib[ah]anthr | 12.188 | 278 | 102050 | 23.3230 ug/mL | 99 |
| 92) B[ghi]perylen | 12.486 | 276 | 114111 | 23.9589 ug/mL | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV573.D Vial: 2
Acq On : 21 Nov 2019 10:04 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:10:34 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Ending CCV %Recovery Report

| | |
|---|---|
| Data File Name | 2CCV574.D |
| Data File Path | C:\INSTARCH\DATA\2S112019\ |
| Operator | RPN |
| Date Acquired | 11/21/2019 14:44 |
| Acq. Method File | 2S111919.M |
| Sample Name | CCV 20ug/mL SVMS8535 |
| Misc Info | 500ul+5ul IS S4170B |
| Vial Number | 2 |
| Instrument Name | SVMS2 |
| Sample Multiplier | 1 |

| # | Name | Ret Time | Amount | Units | Response | 50-150 %REC |
|---|---|---|---|---|---|---|
| 1 | 14Diclbenzd4 | 5.09 | 20.00 | ug/mL | 33663 | ISTD |
| 2 | Ntrsdimeth | 2.83 | 20.55 | ug/mL | 39714 | 103 |
| 3 | Pyridine | 2.86 | 20.05 | ug/mL | 57134 | 100 |
| 4 | SURR2Flphenol | 3.74 | 53.55 | %REC | 51389 | 107 |
| 5 | Aniline | 4.70 | 22.00 | ug/mL | 83924 | 110 |
| 6 | bis2Clethletr | 4.76 | 20.87 | ug/mL | 59586 | 104 |
| 7 | SURRPhenol-d5 | 4.63 | 53.65 | %REC | 66186 | 107 |
| 8 | Phenol | 4.65 | 21.28 | ug/mL | 67951 | 106 |
| 9 | 2-Cl-phenol | 4.84 | 21.61 | ug/mL | 52695 | 108 |
| 10 | 13Diclbenz | 5.02 | 21.26 | ug/mL | 56170 | 106 |
| 11 | 14Diclbenz | 5.11 | 20.92 | ug/mL | 55100 | 105 |
| 12 | 12Diclbenz | 5.30 | 20.99 | ug/mL | 50178 | 105 |
| 13 | Benzyl alcoho | 5.25 | 20.68 | ug/mL | 32395 | 103 |
| 14 | bis2clispreth | 5.41 | 21.27 | ug/mL | 84501 | 106 |
| 15 | 2Methylphenol | 5.38 | 21.17 | ug/mL | 39310 | 106 |
| 16 | Ntrspyrrol | 5.53 | 20.74 | ug/mL | 26134 | 104 |
| 17 | Acetophenone | 5.55 | 21.16 | ug/mL | 66771 | 106 |
| 18 | Hexaclethane | 5.66 | 21.01 | ug/mL | 20715 | 105 |
| 19 | N-Ntrsdinprop | 5.55 | 21.60 | ug/mL | 42418 | 108 |
| 20 | 3&4Methylphenol | 5.55 | 21.60 | ug/mL | 48897 | 108 |
| 21 | Naphthalened8 | 6.41 | 20.00 | ug/mL | 117722 | ISTD |
| 22 | SURRNitrbenzened5 | 5.71 | 109.36 | %REC | 56328 | 109 |
| 23 | Nitrobenzene | 5.73 | 21.92 | ug/mL | 59257 | 110 |
| 24 | Isophorone | 5.97 | 22.10 | ug/mL | 105244 | 110 |
| 25 | 2-Nitrophenol | 6.05 | 22.19 | ug/mL | 25583 | 111 |
| 26 | 24Dimthpheno | 6.10 | 21.06 | ug/mL | 39562 | 105 |
| 27 | bis2clethoxym | 6.19 | 21.62 | ug/mL | 58914 | 108 |
| 28 | 24Diclphenol | 6.28 | 22.04 | ug/mL | 34819 | 110 |
| 29 | 124Triclbenz | 6.36 | 21.56 | ug/mL | 33663 | 108 |
| 30 | Benzoic acid | 6.19 | 21.12 | ug/mL | 37286 | 106 |
| 31 | Naphthalene | 6.43 | 21.43 | ug/mL | 133577 | 107 |
| 32 | 4-Cl-aniline | 6.48 | 22.81 | ug/mL | 48769 | 114 |
| 33 | 26Diclphenol | 6.48 | 22.00 | ug/mL | 26046 | 110 |
| 34 | Hexaclprop | 6.50 | 21.93 | ug/mL | 22622 | 110 |
| 35 | Hexaclbutdien | 6.54 | 21.73 | ug/mL | 17940 | 109 |
| 36 | 4Cl3methylphe | 6.90 | 22.30 | ug/mL | 41319 | 111 |
| 37 | 2Methylnaphth | 7.01 | 21.45 | ug/mL | 90631 | 107 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 38 | 1Methylnaphth | 7.08 | 21.33 | ug/mL | 74118 | 107 |
| 39 | Acenaphthened10 | 7.75 | 20.00 | ug/mL | 33663 | ISTD |
| 40 | Hxclcycpentdi | 7.13 | 21.08 | ug/mL | 59707 | 105 |
| 41 | 1245Tetrclbenz | 7.14 | 21.25 | ug/mL | 33073 | 106 |
| 42 | 246Triclpheno | 7.22 | 20.73 | ug/mL | 22857 | 104 |
| 43 | 245Triclpheno | 7.25 | 23.27 | ug/mL | 24977 | 116 |
| 44 | SURR2Flbiphenyl | 7.28 | 107.49 | %REC | 87560 | 107 |
| 45 | 2Clnaphthalen | 7.37 | 21.35 | ug/mL | 75510 | 107 |
| 46 | 2Nitroaniline | 7.45 | 21.63 | ug/mL | 32637 | 108 |
| 47 | Acnaphthylene | 7.66 | 21.45 | ug/mL | 33663 | 107 |
| 48 | Dimethylphtha | 7.57 | 20.14 | ug/mL | 121225 | 101 |
| 49 | 26Dinitrotolu | 7.61 | 20.81 | ug/mL | 18576 | 104 |
| 50 | Acenaphthene | 7.77 | 21.14 | ug/mL | 79231 | 106 |
| 51 | 3Nitroaniline | 7.72 | 19.49 | ug/mL | 18210 | 97 |
| 52 | 24Dinitphenol | 7.79 | 16.30 | ug/mL | 7817 | 82 |
| 53 | Dibenzofuran | 7.89 | 21.69 | ug/mL | 104875 | 108 |
| 54 | 24Dinitrotolu | 7.87 | 20.90 | ug/mL | 33663 | 105 |
| 55 | 4-Nitrophenol | 7.84 | 20.49 | ug/mL | 23784 | 102 |
| 56 | 2,3,5,6-Tetrachlorop | 7.94 | 21.66 | ug/mL | 19360 | 108 |
| 57 | 2,3,4,6-Tetrachlorop | 7.96 | 21.14 | ug/mL | 16417 | 106 |
| 58 | Fluorene | 8.10 | 21.86 | ug/mL | 86921 | 109 |
| 59 | 4Clphlphlethr | 8.10 | 20.83 | ug/mL | 38161 | 104 |
| 60 | Diethylphthal | 8.02 | 20.08 | ug/mL | 78113 | 100 |
| 61 | 4Nitroaniline | 8.12 | 20.51 | ug/mL | 19853 | 103 |
| 62 | SURR246Tribrphenl | 8.25 | 54.75 | %REC | 7735 | 110 |
| 63 | Phenanthrd10 | 8.58 | 20.00 | ug/mL | 73725 | ISTD |
| 64 | 46Dinit2mylph | 8.13 | 19.48 | ug/mL | 11887 | 97 |
| 65 | Ntrsdiphlam&Diphlam | 8.17 | 42.44 | ug/mL | 93726 | 106 |
| 66 | Azobenz&12Diphlhyd | 8.20 | 42.50 | ug/mL | 41160 | 106 |
| 67 | 4Brphlphlethr | 8.37 | 21.73 | ug/mL | 16071 | 109 |
| 68 | Hexaclbenzene | 8.40 | 21.27 | ug/mL | 15665 | 106 |
| 69 | Pentaclphenol | 8.49 | 20.83 | ug/mL | 9212 | 104 |
| 70 | Phenanthrene | 8.60 | 20.87 | ug/mL | 94882 | 104 |
| 71 | Anthracene | 8.62 | 21.92 | ug/mL | 93109 | 110 |
| 72 | Carbazole | 8.69 | 20.74 | ug/mL | 68598 | 104 |
| 73 | Dinbtylphthal | 8.83 | 21.29 | ug/mL | 106596 | 106 |
| 74 | Fluoranthene | 9.19 | 21.34 | ug/mL | 96800 | 107 |
| 75 | Chrysene-d12 | 10.06 | 20.00 | ug/mL | 63830 | ISTD |
| 76 | Benzidine | 9.25 | 20.97 | ug/mL | 26601 | 105 |
| 77 | Pyrene | 9.32 | 21.09 | ug/mL | 100973 | 105 |
| 78 | SURRTerphenyl-d14 | 9.39 | 104.29 | %REC | 61547 | 104 |
| 79 | Btylbzylphth | 10.03 | 22.04 | ug/mL | 72985 | 110 |
| 80 | bis2Ethlhxlad | 9.70 | 21.85 | ug/mL | 46637 | 109 |
| 81 | 33Diclbnzidin | 10.02 | 19.44 | ug/mL | 22676 | 97 |
| 82 | B[a]anthracen | 10.05 | 21.28 | ug/mL | 89383 | 106 |
| 83 | Chrysene | 10.08 | 20.88 | ug/mL | 85793 | 104 |
| 84 | bis2Ethlhxlph | 10.03 | 21.96 | ug/mL | 71826 | 110 |
| 85 | Dinoctylphthl | 10.46 | 21.34 | ug/mL | 131891 | 107 |
| 86 | Perylene-d12 | 11.11 | 20.00 | ug/mL | 79498 | ISTD |
| 87 | B[b]fluoranth | 10.80 | 21.31 | ug/mL | 93626 | 107 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 88 | B[k]fluoranth | 10.82 | 21.05 | ug/mL | 90837 | 105 |
| 89 | Benz[a]pyrene | 11.07 | 21.32 | ug/mL | 89746 | 107 |
| 90 | Indeno-pyrene | 12.16 | 23.92 | ug/mL | 114421 | 120 |
| 91 | Dib[ah]anthr | 12.17 | 23.88 | ug/mL | 91549 | 119 |
| 92 | B[ghi]perylen | 12.47 | 23.72 | ug/mL | 98985 | 119 |

(#) = recovery out of range Average Percent Recovery = 106

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV574.D Vial: 2
Acq On : 21 Nov 2019 14:44 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 13:27:44 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Nov 27 13:27:31 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 5.093 | 152 | 33663 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.408 | 136 | 117722 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.752 | 164 | 59707 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.585 | 188 | 73725 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.062 | 240 | 63830 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 11.114 | 264 | 79498 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.737 | 112 | 51389 | 53.55 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.55% | | | |
| 7) SURRPhenol-d5 | 4.632 | 99 | 66186 | 53.65 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.65% | | | |
| 22) SURRNitrbenzened5 | 5.709 | 82 | 56328 | 109.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 109.36% | | | |
| 44) SURR2Flbiphenyl | 7.283 | 172 | 87560 | 107.49 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 107.49% | | | |
| 62) SURR246Tribrphenl | 8.249 | 330 | 7735 | 54.75 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 54.75% | | | |
| 78) SURRTerphenyl-d14 | 9.392 | 244 | 61547 | 104.29 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 104.29% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.831 | 74 | 39714 | 20.5542 | ug/mL | 98 |
| 3) Pyridine | 2.862 | 79 | 57134 | 20.0548 | ug/mL | 100 |
| 5) Aniline | 4.698 | 93 | 83924 | 22.0025 | ug/mL | 99 |
| 6) bis2Clethletr | 4.757 | 93 | 59586 | 20.8750 | ug/mL | 98 |
| 8) Phenol | 4.646 | 94 | 67951 | 21.2832 | ug/mL | 98 |
| 9) 2-Cl-phenol | 4.840 | 128 | 52695 | 21.6137 | ug/mL | 99 |
| 10) 13Diclbenz | 5.022 | 146 | 56170 | 21.2587 | ug/mL | 97 |
| 11) 14Diclbenz | 5.112 | 146 | 55100 | 20.9231 | ug/mL | 97 |
| 12) 12Diclbenz | 5.297 | 146 | 50178 | 20.9890 | ug/mL | 98 |
| 13) Benzyl alcoho | 5.255 | 108 | 32395 | 20.6791 | ug/mL | 99 |
| 14) bis2clispreth | 5.405 | 45 | 84501 | 21.2670 | ug/mL | 99 |
| 15) 2Methylphenol | 5.377 | 107 | 39310 | 21.1735 | ug/mL | 98 |
| 16) Ntrspyrrol | 5.527 | 100 | 26134 | 20.7426 | ug/mL | 87 |
| 17) Acetophenone | 5.550 | 105 | 66771 | 21.1628 | ug/mL | 96 |
| 18) Hexaclethane | 5.664 | 117 | 20715 | 21.0143 | ug/mL | 95 |
| 19) N-Ntrsdinprop | 5.550 | 70 | 42418 | 21.5974 | ug/mL | 99 |
| 20) 3&4Methylphenol | 5.550 | 107 | 48897 | 21.5981 | ug/mL | 98 |
| 23) Nitrobenzene | 5.729 | 77 | 59257 | 21.9194 | ug/mL | 96 |
| 24) Isophorone | 5.973 | 82 | 105244 | 22.0958 | ug/mL | 98 |
| 25) 2-Nitrophenol | 6.050 | 139 | 25583 | 22.1901 | ug/mL | 96 |
| 26) 24Dimthpheno | 6.098 | 122 | 39562 | 21.0631 | ug/mL | 96 |
| 27) bis2clethoxym | 6.187 | 93 | 58914 | 21.6203 | ug/mL | 98 |
| 28) 24Diclphenol | 6.283 | 162 | 34819 | 22.0390 | ug/mL | 100 |
| 29) 124Triclbenz | 6.357 | 180 | 37286 | 21.5612 | ug/mL | 94 |
| 30) Benzoic acid | 6.189 | 122 | 22924 | 21.1191 | ug/mL | 95 |
| 31) Naphthalene | 6.425 | 128 | 133577 | 21.4263 | ug/mL | 100 |
| 32) 4-Cl-aniline | 6.479 | 127 | 48769 | 22.8133 | ug/mL | 94 |
| 33) 26Diclphenol | 6.485 | 162 | 26046 | 22.0010 | ug/mL | 98 |
| 34) Hexaclprop | 6.505 | 213 | 22622 | 21.9313 | ug/mL | 99 |
| 35) Hexaclbutdien | 6.539 | 225 | 17940 | 21.7347 | ug/mL | 97 |
| 36) 4Cl3methylphe | 6.900 | 107 | 41319 | 22.2994 | ug/mL | 98 |
| 37) 2Methylnaphth | 7.008 | 142 | 90631 | 21.4480 | ug/mL | 100 |
| 38) 1Methylnaphth | 7.084 | 141 | 74118 | 21.3286 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.127 | 237 | 18889 | 21.0810 | ug/mL | 99 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV574.D Vial: 2
Acq On : 21 Nov 2019 14:44 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 13:27:44 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Nov 27 13:27:31 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

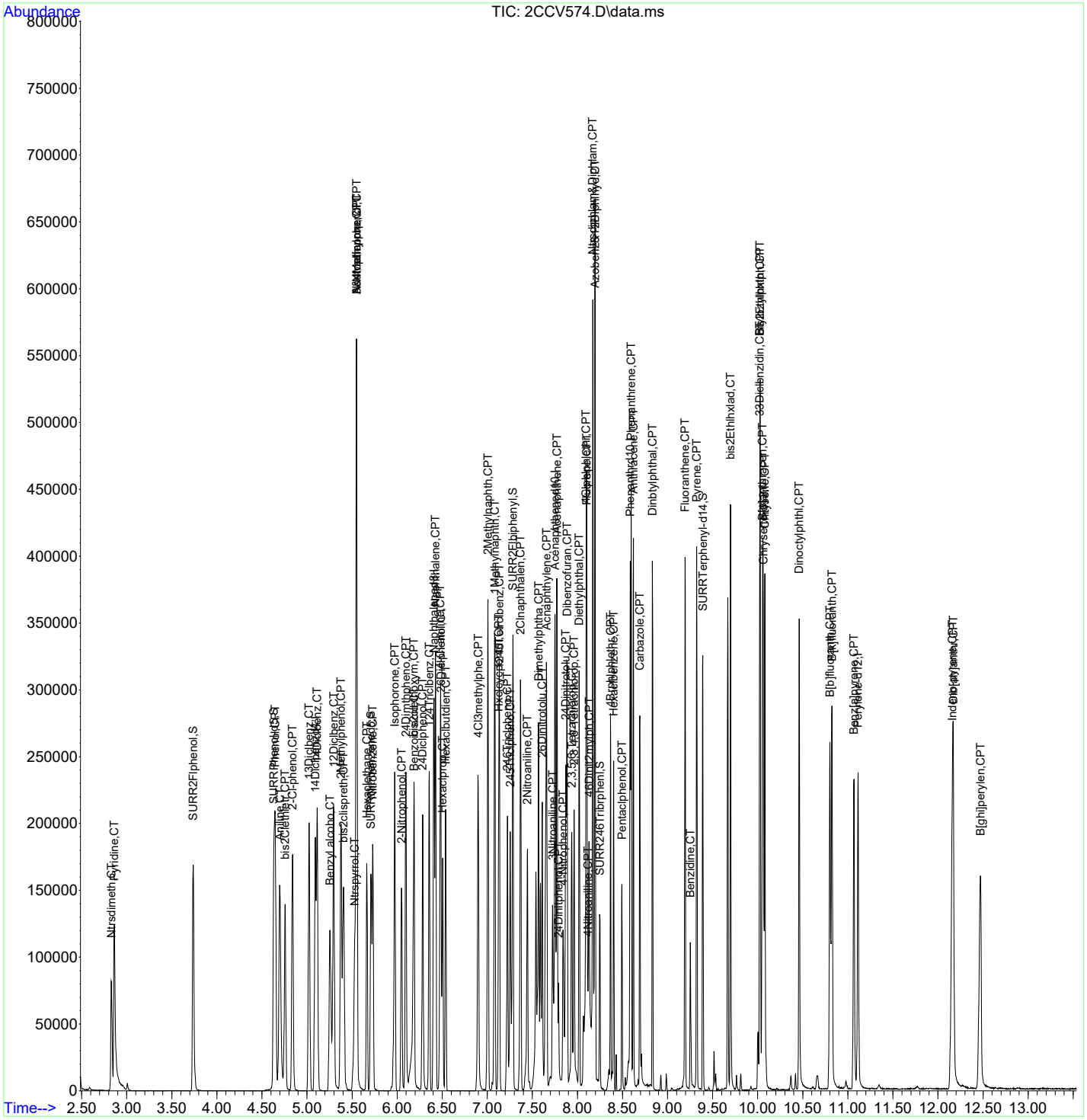
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.136 | 216 | 33073 | 21.2501 ug/mL | 98 |
| 42) 246Triclpheno | 7.224 | 196 | 22857 | 20.7321 ug/mL | 95 |
| 43) 245Triclpheno | 7.255 | 196 | 24977 | 23.2715 ug/mL | 97 |
| 45) 2Clnaphthalen | 7.369 | 162 | 75510 | 21.3519 ug/mL | 97 |
| 46) 2Nitroaniline | 7.445 | 65 | 32637 | 21.6342 ug/mL | 99 |
| 47) Acnaphthylene | 7.658 | 152 | 121225 | 21.4483 ug/mL | 99 |
| 48) Dimethylphtha | 7.570 | 163 | 74429 | 20.1410 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.610 | 165 | 18576 | 20.8070 ug/mL | 97 |
| 50) Acenaphthene | 7.772 | 154 | 79231 | 21.1384 ug/mL | 100 |
| 51) 3Nitroaniline | 7.724 | 138 | 18210 | 19.4906 ug/mL | 88 |
| 52) 24Dinitphenol | 7.789 | 184 | 7817 | 16.3004 ug/mL# | 76 |
| 53) Dibenzofuran | 7.886 | 168 | 104875 | 21.6864 ug/mL | 100 |
| 54) 24Dinitrotolu | 7.872 | 165 | 23784 | 20.9014 ug/mL | 94 |
| 55) 4-Nitrophenol | 7.840 | 65 | 20761 | 20.4930 ug/mL | 93 |
| 56) 2,3,5,6-Tetrachlorop | 7.937 | 232 | 19360 | 21.6646 ug/mL | 93 |
| 57) 2,3,4,6-Tetrachlorop | 7.962 | 232 | 16417 | 21.1354 ug/mL | 95 |
| 58) Fluorene | 8.105 | 166 | 86921 | 21.8649 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.096 | 204 | 38161 | 20.8322 ug/mL | 97 |
| 60) Diethylphthal | 8.019 | 149 | 78113 | 20.0800 ug/mL | 99 |
| 61) 4Nitroaniline | 8.119 | 138 | 19853 | 20.5066 ug/mL | 95 |
| 64) 46Dinit2mylph | 8.130 | 198 | 11887 | 19.4799 ug/mL | 90 |
| 65) Ntrsdiphlam&Diphlam | 8.170 | 169 | 93726 | 42.4367 ug/mL | 100 |
| 66) Azobenz&12Diphlhyd | 8.195 | 182 | 41160 | 42.4956 ug/mL | 96 |
| 67) 4Brphlphlethr | 8.369 | 248 | 16071 | 21.7348 ug/mL | 97 |
| 68) Hexaclbenzene | 8.403 | 284 | 15665 | 21.2737 ug/mL | 96 |
| 69) Pentaclphenol | 8.494 | 266 | 9212 | 20.8314 ug/mL | 93 |
| 70) Phenanthrene | 8.596 | 178 | 94882 | 20.8710 ug/mL | 99 |
| 71) Anthracene | 8.622 | 178 | 93109 | 21.9204 ug/mL | 99 |
| 72) Carbazole | 8.693 | 167 | 68598 | 20.7366 ug/mL | 99 |
| 73) Dinbtylphthal | 8.832 | 149 | 106596 | 21.2876 ug/mL | 100 |
| 74) Fluoranthene | 9.193 | 202 | 96800 | 21.3450 ug/mL | 99 |
| 76) Benzidine | 9.252 | 184 | 26601 | 20.9650 ug/mL | 99 |
| 77) Pyrene | 9.323 | 202 | 100973 | 21.0862 ug/mL | 99 |
| 79) Btylbzylphth | 10.025 | 149 | 72985 | 22.0398 ug/mL | 99 |
| 80) bis2Ethlhxlad | 9.699 | 129 | 46637 | 21.8547 ug/mL | 98 |
| 81) 33Diclbnzidin | 10.022 | 252 | 22676 | 19.4416 ug/mL | 99 |
| 82) B[a]anthracen | 10.054 | 228 | 89383 | 21.2846 ug/mL | 100 |
| 83) Chrysene | 10.079 | 228 | 85793 | 20.8837 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.025 | 149 | 71826 | 21.9578 ug/mL | 100 |
| 85) Dinoctylphthl | 10.460 | 149 | 131891 | 21.3447 ug/mL | 99 |
| 87) B[b]fluoranth | 10.801 | 252 | 93626 | 21.3074 ug/mL | 100 |
| 88) B[k]fluoranth | 10.824 | 252 | 90837 | 21.0479 ug/mL | 99 |
| 89) Benz[a]pyrene | 11.068 | 252 | 89746 | 21.3151 ug/mL | 99 |
| 90) Indeno-pyrene | 12.159 | 276 | 114421 | 23.9214 ug/mL | 96 |
| 91) Dib[ah]anthr | 12.171 | 278 | 91549 | 23.8800 ug/mL | 98 |
| 92) B[ghi]perylen | 12.472 | 276 | 98985 | 23.7202 ug/mL | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2CCV574.D Vial: 2
Acq On : 21 Nov 2019 14:44 Operator: RPN
Sample : CCV 20ug/mL SVMS8535 Inst : SVMS2
Misc : 500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 27 13:27:44 2019

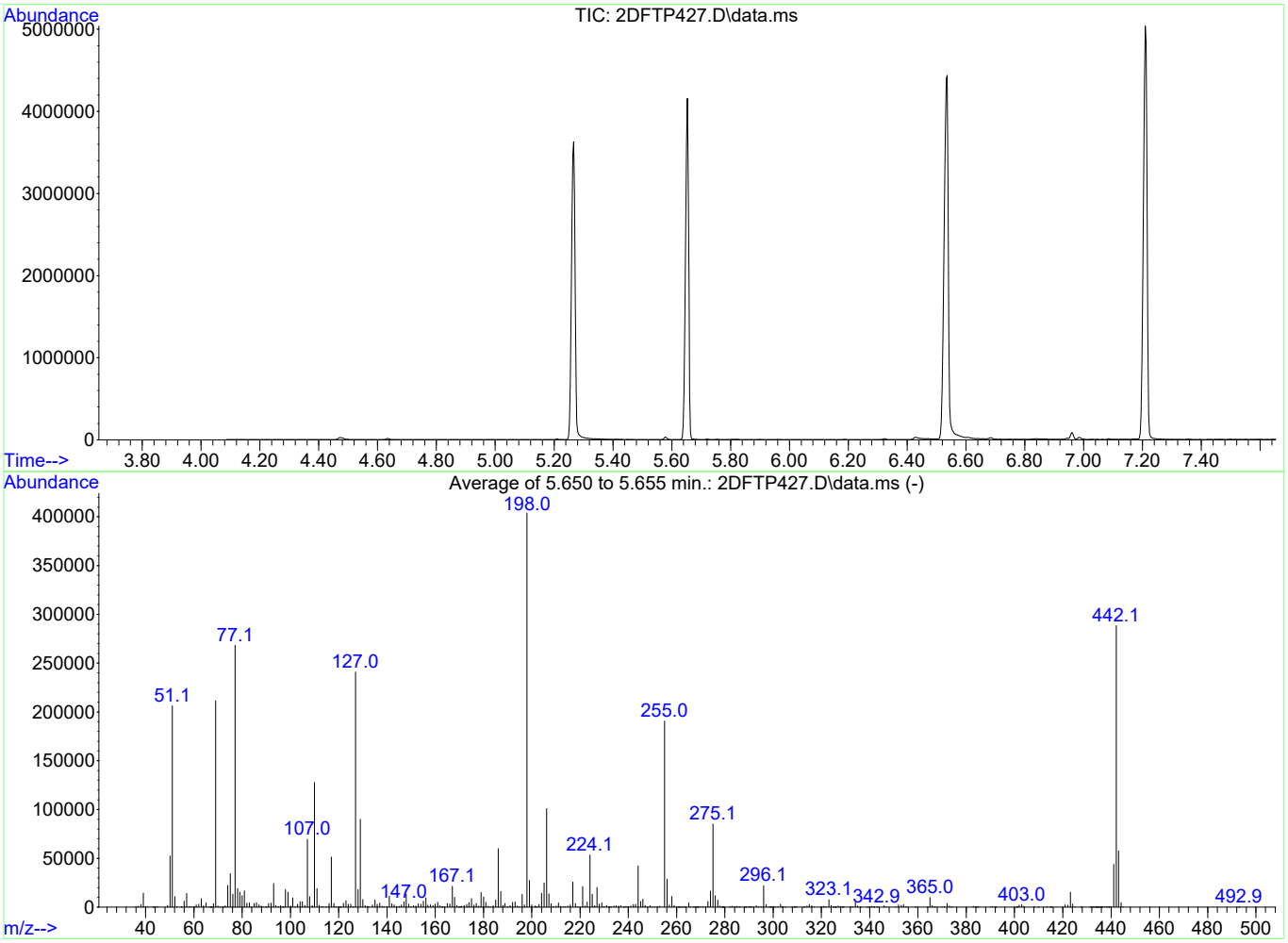
Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Wed Nov 27 13:27:31 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



DFTPP

Data File : C:\INSTARCH\DATA\2S112219\2DFTP427.D  Vial: 1
Acq On : 22 Nov 2019 12:17  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



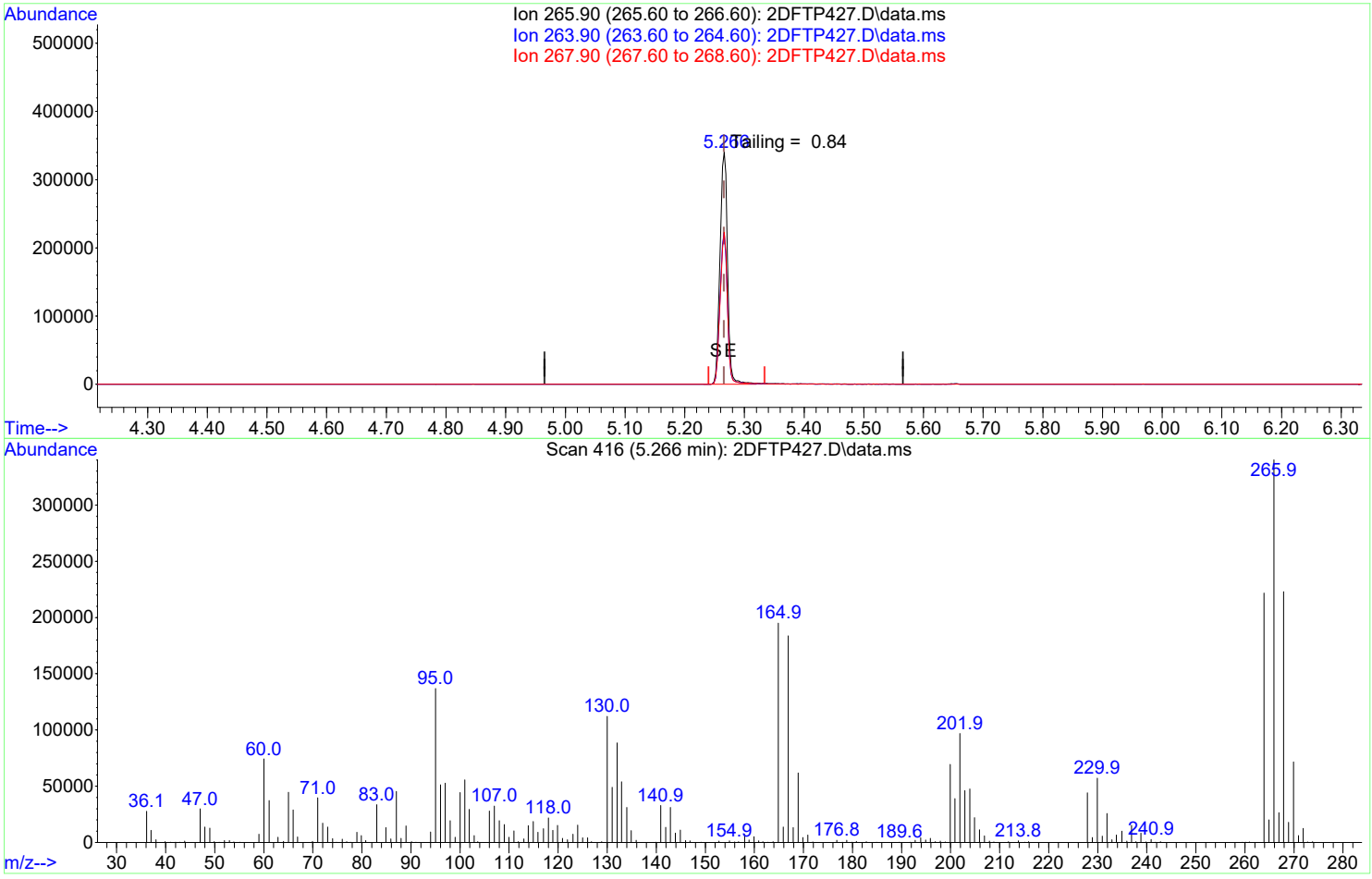

AutoFind: Scans 551, 552, 553; Background Corrected with Scan 542

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 51.1 | 206379 | PASS |
| 68 | 69 | 0.00 | 2 | 1.7 | 3615 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 1256 | PASS |
| 127 | 198 | 10 | 80 | 59.6 | 240792 | PASS |
| 197 | 198 | 0.00 | 2 | 0.6 | 2328 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 403840 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 27437 | PASS |
| 275 | 198 | 10 | 60 | 21.1 | 85117 | PASS |
| 365 | 198 | 1 | 100 | 2.4 | 9713 | PASS |
| 441 | 442 | 0.01 | 24 | 15.2 | 43784 | PASS |
| 442 | 198 | 50 | 100 | 71.4 | 288405 | PASS |
| 443 | 442 | 15 | 24 | 20.0 | 57696 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP427.D  Vial: 1
Acq On : 22 Nov 2019 12:17  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 04 08:07:50 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M




TIC: 2DFTP427.D\data.ms

**(1) Pentachlorophenol**

**5.266min (+ 0.000) 17.23 ng**

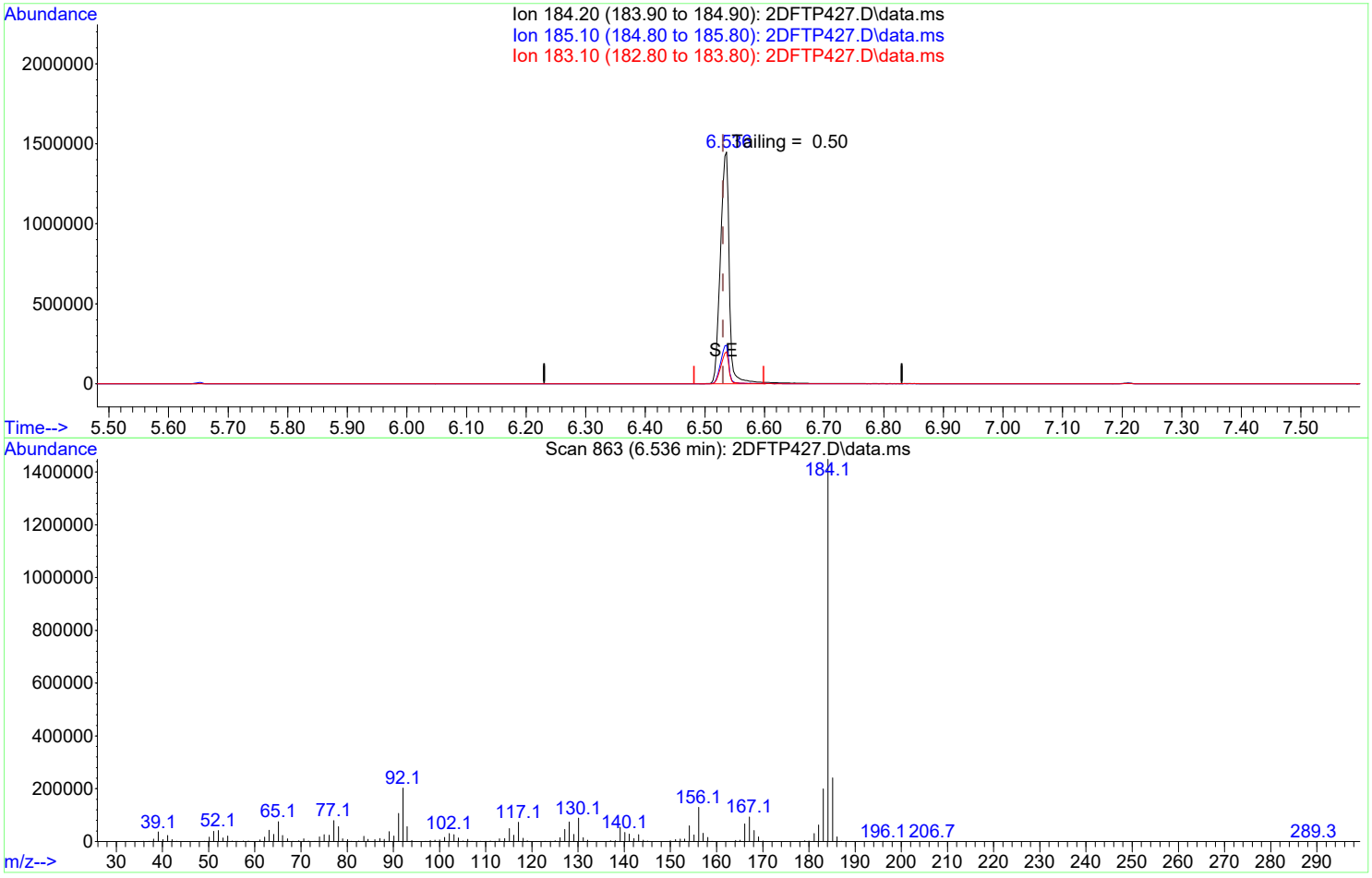
**response 298536**

| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 64.60 | 63.92 |
| 267.90 | 65.00 | 63.36 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP427.D  Vial: 1
Acq On : 22 Nov 2019 12:17  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 04 08:07:50 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M







TIC: 2DFTP427.D\data.ms

**(3) Benzidine**

**6.536min (+ 0.006) 22.89 ng**

**response 1504430**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.90 | 15.73 |
| 183.10 | 12.20 | 12.63 |
| 0.00 | 0.00 | 0.00 |

C:\INSTARCH\DATA\2S112219\2DFTP427.D

| | | | |
|---|---|---|---|
| Data File | : 2DFTP427.D | Vial Number | : 1 |
| Data File Path | : C:\INSTARCH\DATA\2S112219\ | Operator | : RPN |
| Date Aquired | : 11/22/2019 12:17 | Instrument Name | : SVMS2 |
| Sample Name | : DFTPP TUNE SVMS8353 | Sample Multiplier | : 1 |
| Misc Info | : SVMS2, 50ng DFTPP | | |

Calibration Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019

| # | Compound | R.T. | QIon | Response |
|---|---|---|---|---|
| 1) | Pentachlorophenol | 5.27 | 266 | 298536.00 |
| 2) | DFTPP | 5.65 | 198 | 334395.00 |
| 3) | Benzidine | 6.54 | 184 | 1504430.00 |
| 4) | DDE | 6.68 | 246 | 1640.00 |
| 5) | DDD | 6.96 | 235 | 13171.00 |
| 6) | DDT | 7.21 | 235 | 700200.00 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 2.07\ \%$$

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\DATA\2S112219\2CCV575.D Vial: 2
Acq On : 22 Nov 2019 12:32 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:15:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 1 I | 14Diclbenzd4 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 2 S | SURR14Dioxaned8 | 100.000 | 100.080 | -0.1 | 98 | 0.00 |
| 3 CT | 14Dioxane | 1.000 | 1.000 | 0.0 | 98 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV575.D Vial: 2
Acq On : 22 Nov 2019 12:32 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:15:48 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

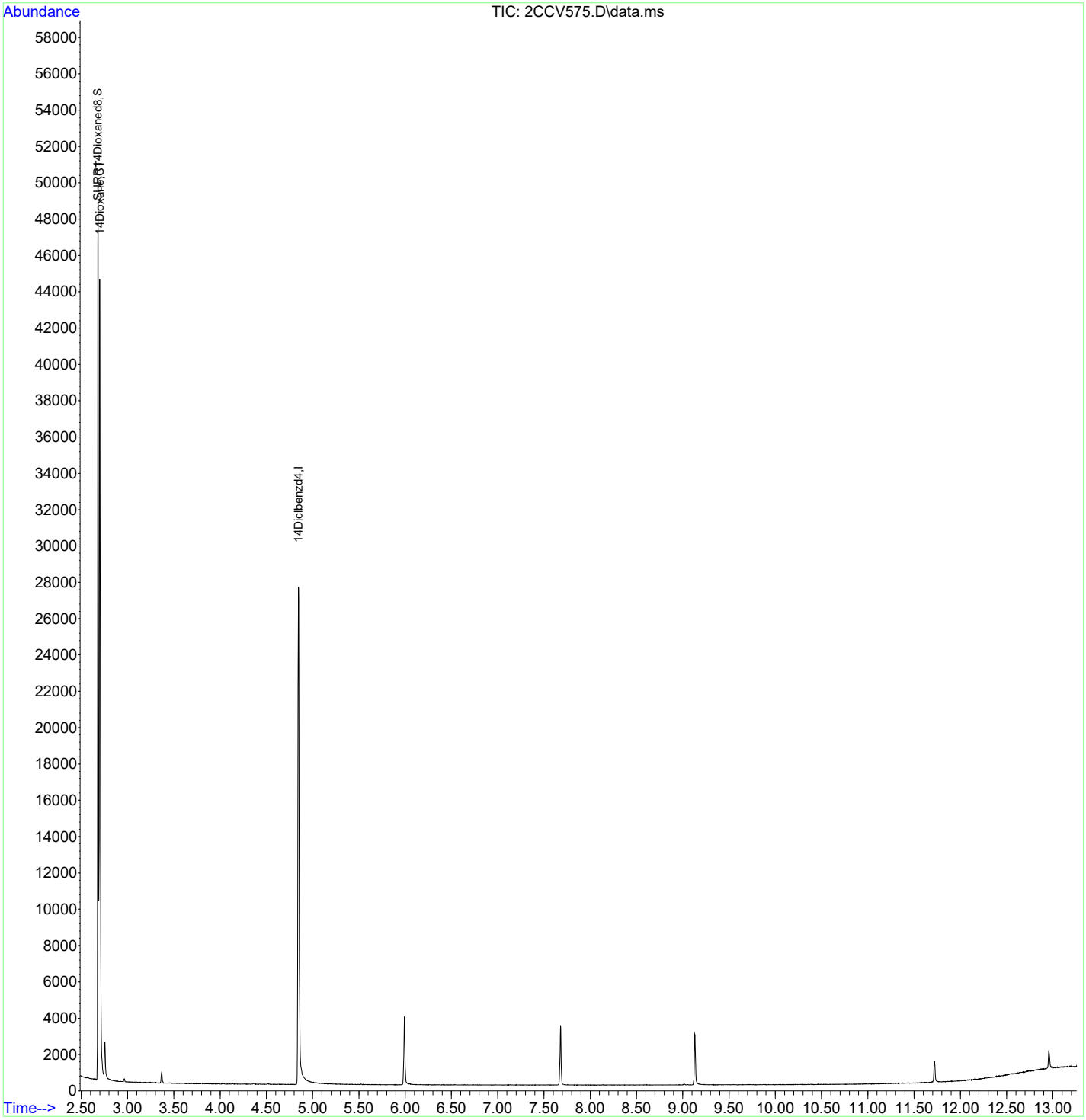
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 26662 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.678 | 64 | 13904 | 100.08 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 100.08% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.699 | 58 | 13521 | 0.9996 | ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV575.D Vial: 2
Acq On : 22 Nov 2019 12:32 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:15:48 2019

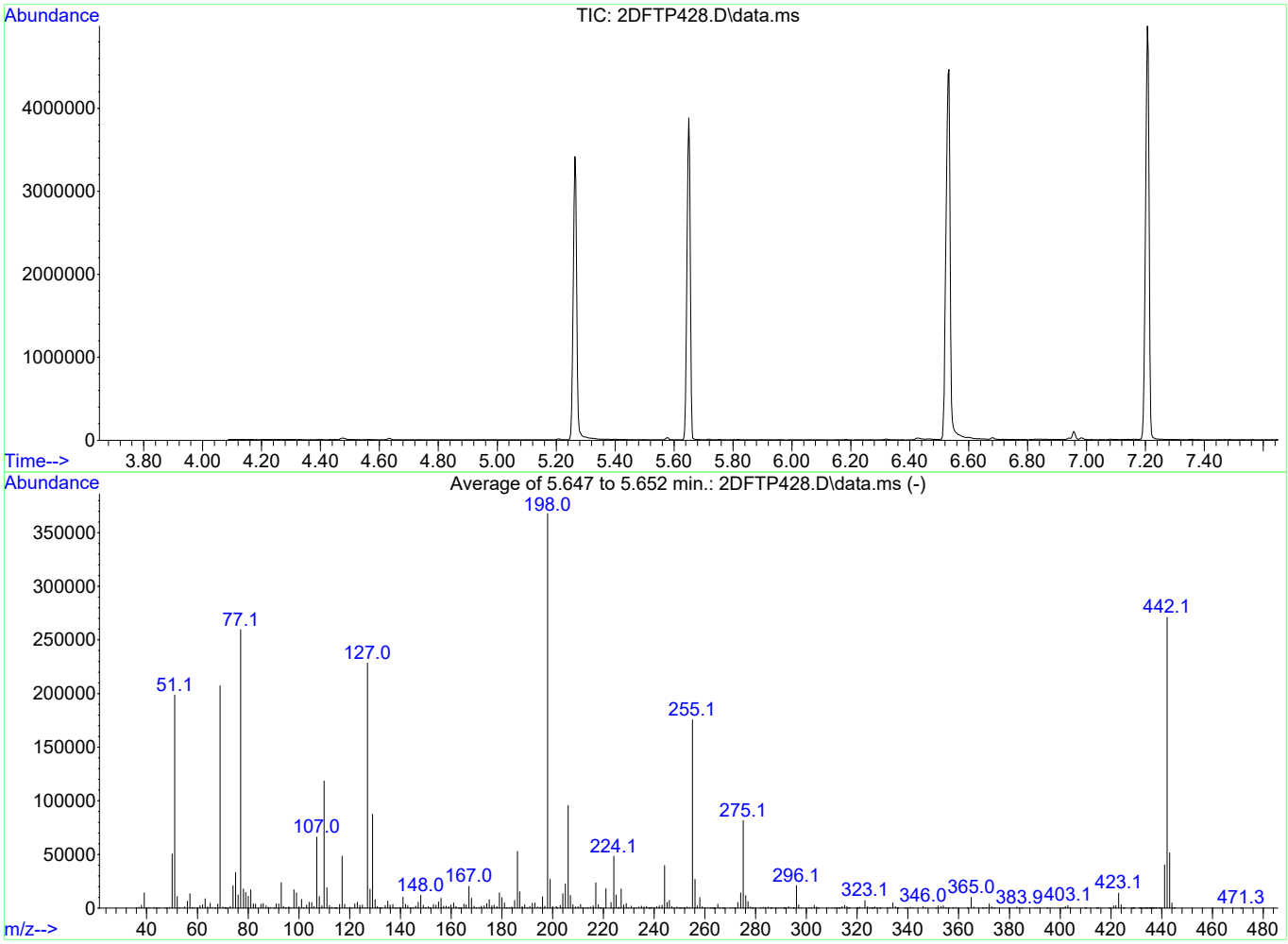
Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



DFTPP

Data File : C:\INSTARCH\DATA\2S112219\2DFTP428.D  Vial: 1
Acq On : 22 Nov 2019 16:49  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE

Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019



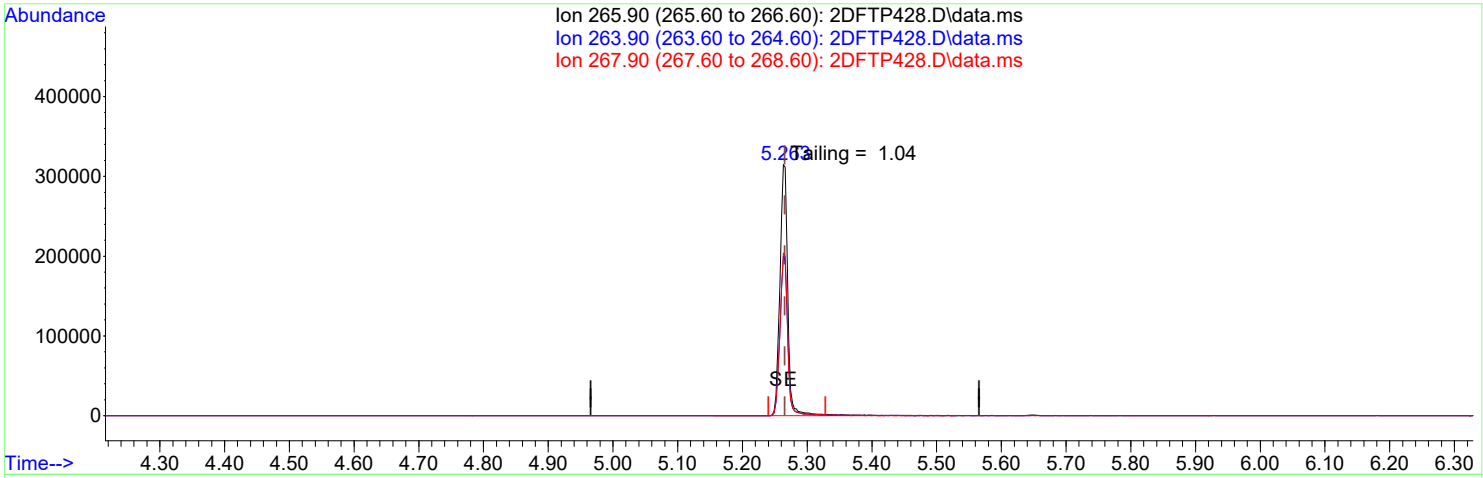

AutoFind: Scans 550, 551, 552; Background Corrected with Scan 541

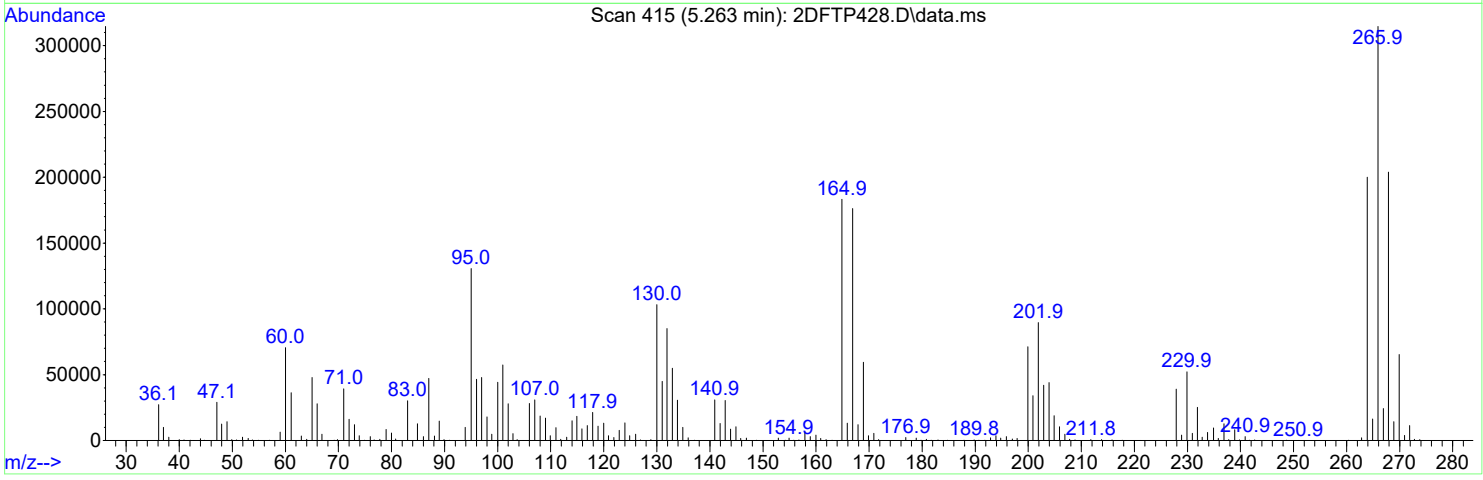
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 54.0 | 198741 | PASS |
| 68 | 69 | 0.00 | 2 | 1.7 | 3606 | PASS |
| 70 | 69 | 0.00 | 2 | 0.5 | 1004 | PASS |
| 127 | 198 | 10 | 80 | 62.1 | 228459 | PASS |
| 197 | 198 | 0.00 | 2 | 0.5 | 1826 | PASS |
| 198 | 198 | 50 | 100 | 100.0 | 367808 | PASS |
| 199 | 198 | 5 | 9 | 7.3 | 26720 | PASS |
| 275 | 198 | 10 | 60 | 22.2 | 81629 | PASS |
| 365 | 198 | 1 | 100 | 2.7 | 9983 | PASS |
| 441 | 442 | 0.01 | 24 | 14.8 | 40187 | PASS |
| 442 | 198 | 50 | 100 | 73.7 | 271083 | PASS |
| 443 | 442 | 15 | 24 | 19.0 | 51616 | PASS |

Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP428.D  Vial: 1
Acq On : 22 Nov 2019 16:49  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 11:13:41 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M




TIC: 2DFTP428.D\data.ms

**(1) Pentachlorophenol**

**5.263min (-0.003) 15.38 ng**

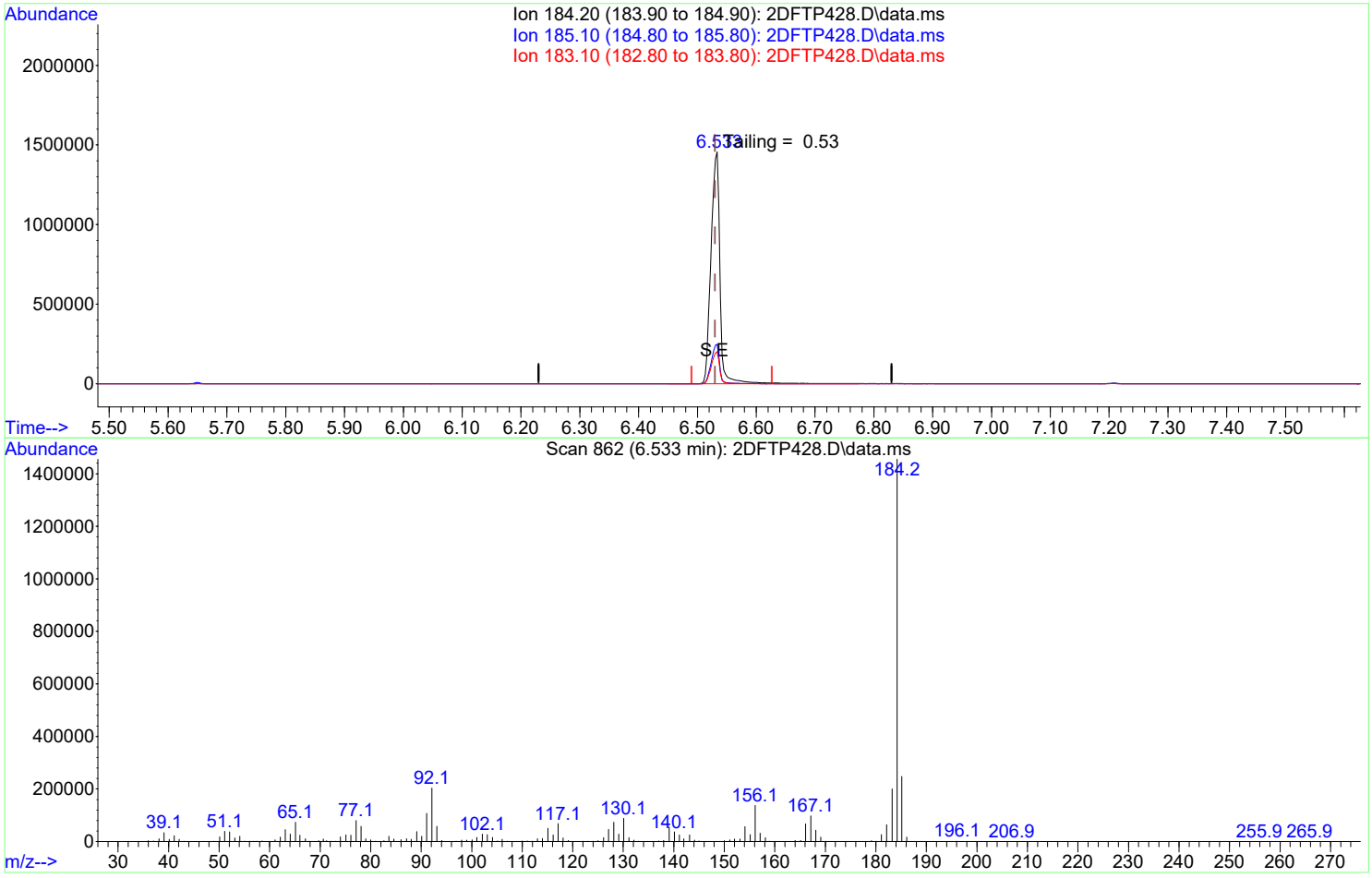
**response 266568**

| Ion | Exp% | Act% |
|---|---|---|
| 265.90 | 100.00 | 100.00 |
| 263.90 | 64.60 | 63.45 |
| 267.90 | 65.00 | 63.14 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data File : C:\INSTARCH\DATA\2S112219\2DFTP428.D  Vial: 1
Acq On : 22 Nov 2019 16:49  Operator: RPN
Sample : DFTPP TUNE SVMS8353  Inst : SVMS2
Misc : SVMS2, 50ng DFTPP  Multiplr: 1.00
Integrator: RTE
Quant Time: Dec 05 11:13:41 2019

Quant Method : C:\INSTARCH\METHOD\2DFTDIOX.M
Quant Title : DFTPP TUNE
QLast Update : Thu Nov 21 17:35:43 2019
Response via : Initial Calibration
DataAcq Meth:2DFTDIOX.M




TIC: 2DFTP428.D\data.ms

**(3) Benzidine**

**6.533min (+ 0.003) 23.22 ng**

**response 1526256**

| Ion | Exp% | Act% |
|---|---|---|
| 184.20 | 100.00 | 100.00 |
| 185.10 | 15.90 | 16.06 |
| 183.10 | 12.20 | 12.75 |
| 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| Data File | : 2DFTP428.D | Vial Number | : 1 |
| Data File Path | : C:\INSTARCH\DATA\2S112219\ | Operator | : RPN |
| Date Aquired | : 11/22/2019 16:49 | Instrument Name | : SVMS2 |
| Sample Name | : DFTPP TUNE SVMS8353 | Sample Multiplier | : 1 |
| Misc Info | : SVMS2, 50ng DFTPP | | |

Calibration Title : DFTPP TUNE
Last Update : Thu Nov 21 17:35:43 2019

| # | Compound | R.T. | QIon | Response |
|---|---|---|---|---|
| 1) | Pentachlorophenol | 5.26 | 266 | 266568.00 |
| 2) | DFTPP | 5.65 | 198 | 307192.00 |
| 3) | Benzidine | 6.53 | 184 | 1526256.00 |
| 4) | DDE | 6.68 | 246 | 1436.00 |
| 5) | DDD | 6.96 | 235 | 13686.00 |
| 6) | DDT | 7.21 | 235 | 661123.00 |

DDT % Degradation

$$\frac{DDD+DDEx100}{DDD+DDE+DDT} \quad 2.24\ \%$$

Ending CCV %Recovery Report

| | |
|---|---|
| Data File Name | 2CCV576.D |
| Data File Path | C:\INSTARCH\DATA\2S112219\ |
| Operator | RPN |
| Date Acquired | 11/22/2019 17:05 |
| Acq. Method File | 2DIOXN07.M |
| Sample Name | ICAL 1.0 ug/ml SVMS8552 |
| Misc Info | 1000ul+10ul IS SVMS8553 |
| Vial Number | 2 |
| Instrument Name | SVMS2 |
| Sample Multiplier | 1 |

| # | Name | Ret Time | Amount | Units | Response | 50-150 %REC |
|---|---|---|---|---|---|---|
| 1 | 14Diclbenzd4 | 4.85 | 1.00 | ug/mL | 27842 | ISTD |
| 2 | SURR14Dioxaned8 | 2.68 | 99.36 | %REC | 14415 | 99 |
| 3 | 14Dioxane | 2.70 | 0.99 | ug/mL | 13966 | 99 |

(#) = recovery out of range  Average Percent Recovery = 99

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV576.D Vial: 2
Acq On : 22 Nov 2019 17:05 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:17:07 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

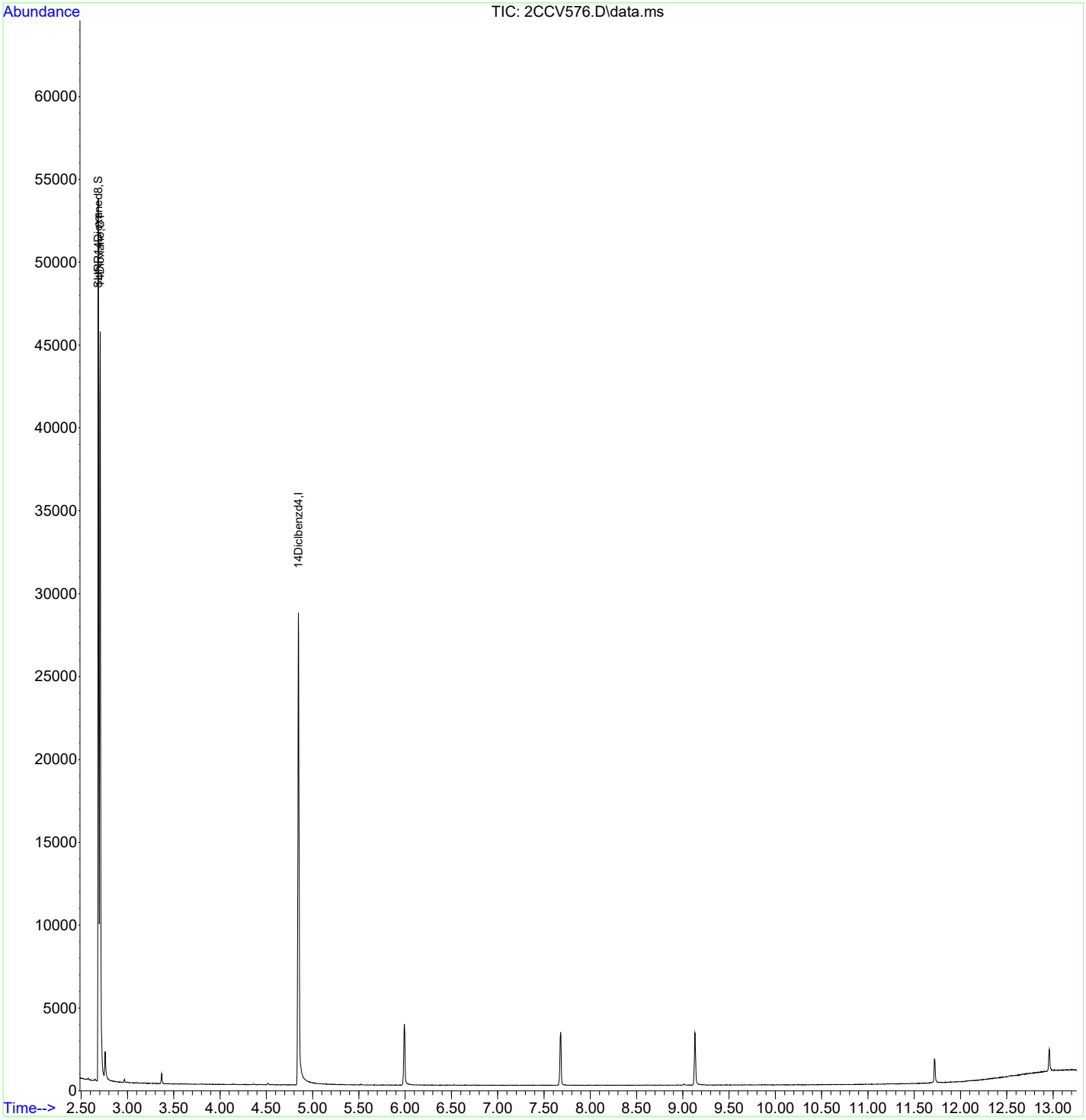
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 27842 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.684 | 64 | 14415 | 99.36 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 99.36% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.705 | 58 | 13966 | 0.9887 | ug/mL | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2CCV576.D Vial: 2
Acq On : 22 Nov 2019 17:05 Operator: RPN
Sample : ICAL 1.0 ug/ml SVMS8552 Inst : SVMS2
Misc : 1000ul+10ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:17:07 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



# SEMI - VOLATILE ORGANIC ANALYSIS
# QUALITY CONTROL
# DOCUMENTS

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBW02.D Vial: 30
Acq On : 21 Nov 2019 11:54 Operator: RPN
Sample : 166847,MBW, Inst : SVMS2
Misc : 360330,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:55:51 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

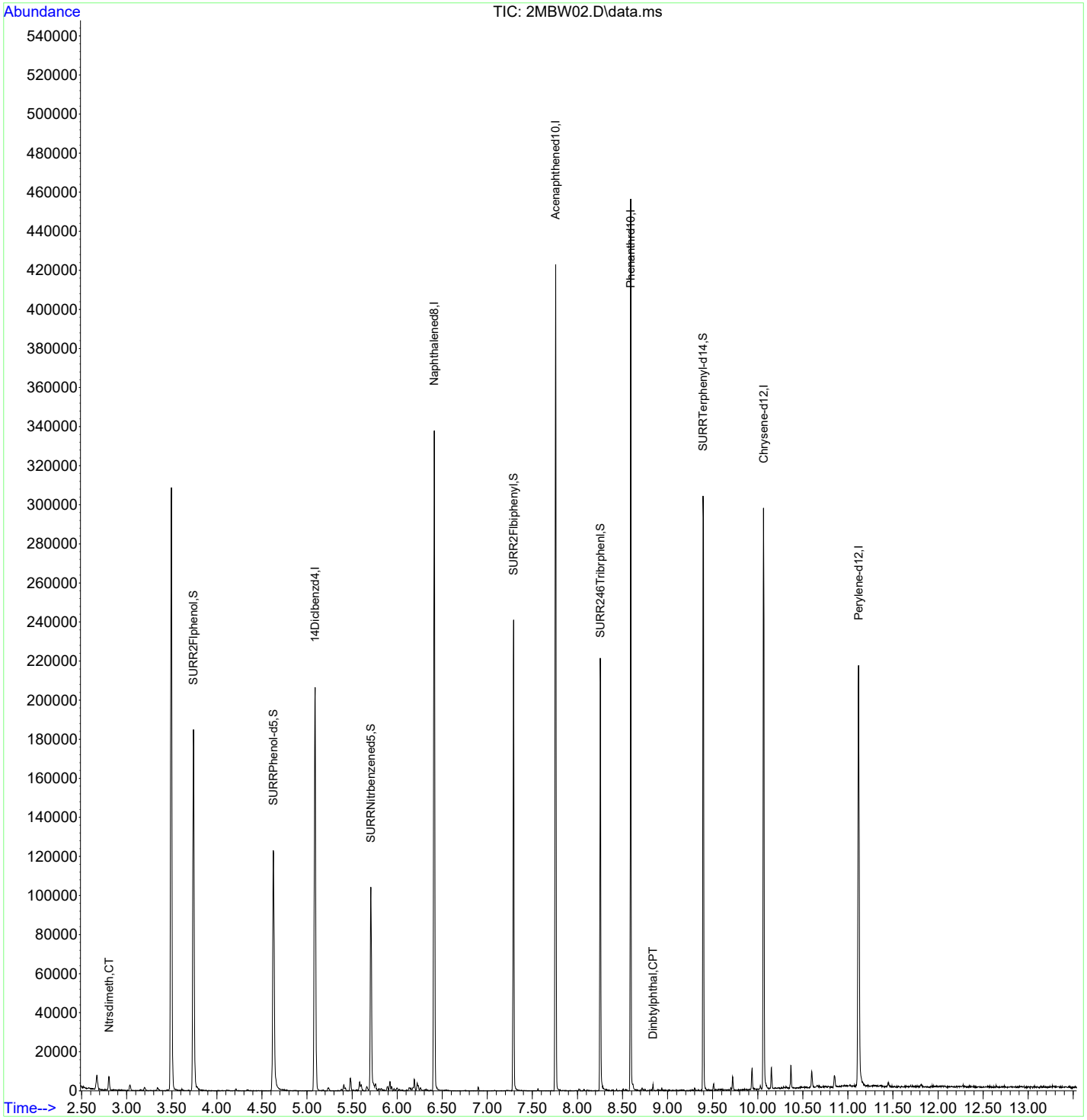
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 5.090 | 152 | 36043 | 20.00 | ug/mL | -0.01 |
| 21) Naphthalened8 | 6.411 | 136 | 130932 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.758 | 164 | 67431 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.590 | 188 | 94003 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.065 | 240 | 68286 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 11.119 | 264 | 76155 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.740 | 112 | 53216 | 51.80 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.80% | | | |
| 7) SURRPhenol-d5 | 4.626 | 99 | 53633 | 40.60 | %REC | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 40.60% | | | |
| 22) SURRNitrbenzened5 | 5.709 | 82 | 36121 | 63.05 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 63.05% | | | |
| 44) SURR2Flbiphenyl | 7.292 | 172 | 56521 | 61.44 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 61.44% | | | |
| 62) SURR246Tribrphenl | 8.255 | 330 | 13437 | 84.22 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 84.22% | | | |
| 78) SURRTerphenyl-d14 | 9.394 | 244 | 61218 | 96.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 96.96% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.805 | 74 | 519 | 0.5146 | ug/mL# | 1 |
| 73) Dinbtylphthal | 8.837 | 149 | 1040 | 0.1629 | ug/mL | 94 |

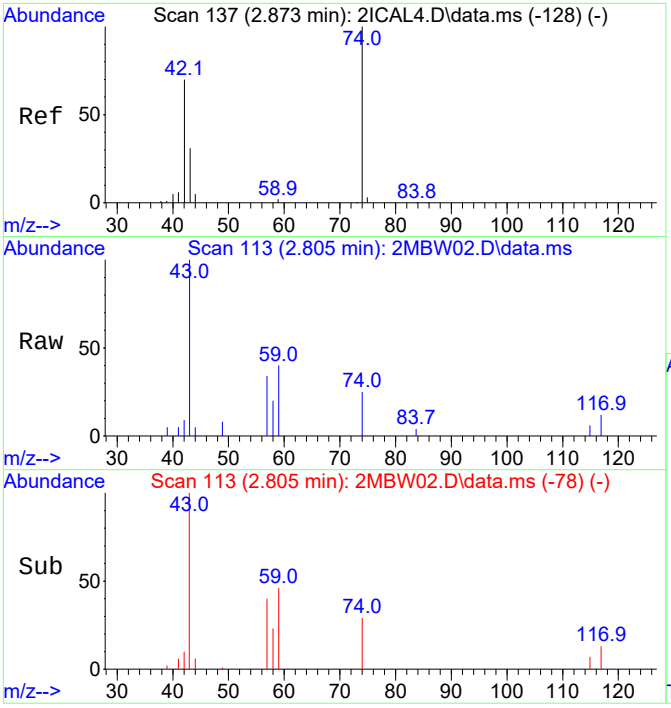
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBW02.D Vial: 30
Acq On : 21 Nov 2019 11:54 Operator: RPN
Sample : 166847,MBW, Inst : SVMS2
Misc : 360330,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:55:51 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

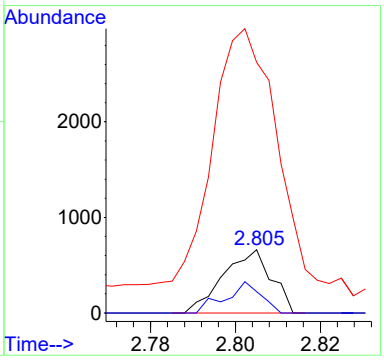


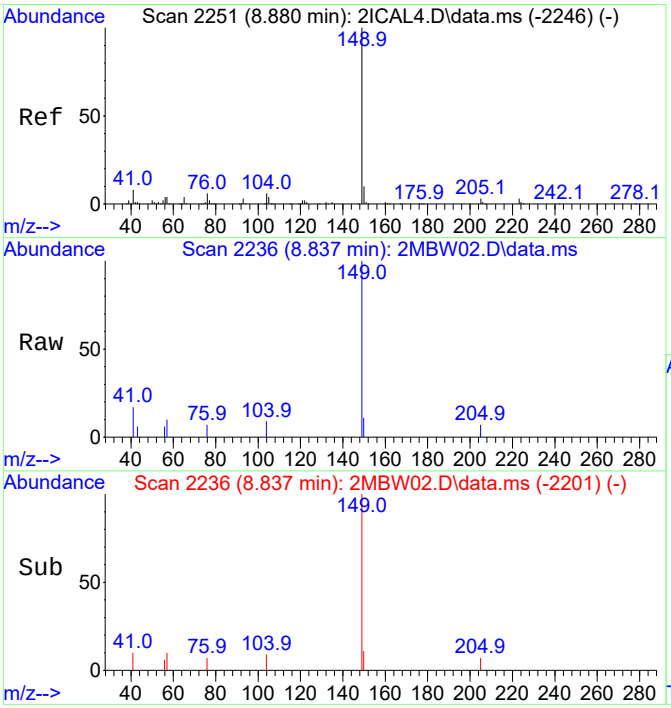



#2
Ntrsdimeth
Concen: 0.51 ug/mL
RT: 2.805 min Scan# 113
Delta R.T. 0.000 min
Lab File: 2MBW02.D
Acq: 21 Nov 2019 11:54

Tgt Ion: 74 Resp: 519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 33.8 | 52.4 | 112.4# |
| 43 | 345.8 | 7.2 | 67.2# |

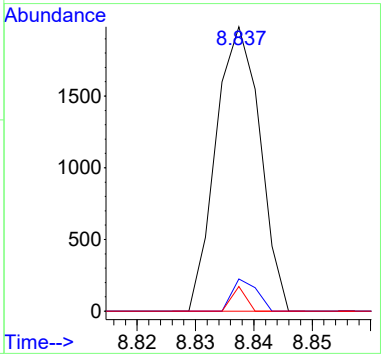



#73
Dinbtylphthal
Concen: 0.16 ug/mL
RT: 8.837 min Scan# 2236
Delta R.T. 0.000 min
Lab File: 2MBW02.D
Acq: 21 Nov 2019 11:54

Tgt Ion:149 Resp: 1040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 11.3 | 0.0 | 39.6 |
| 104 | 8.7 | 0.0 | 36.1 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTV02.D Vial: 31
Acq On : 21 Nov 2019 12:15 Operator: RPN
Sample : 166847,MBTV, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:52:30 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

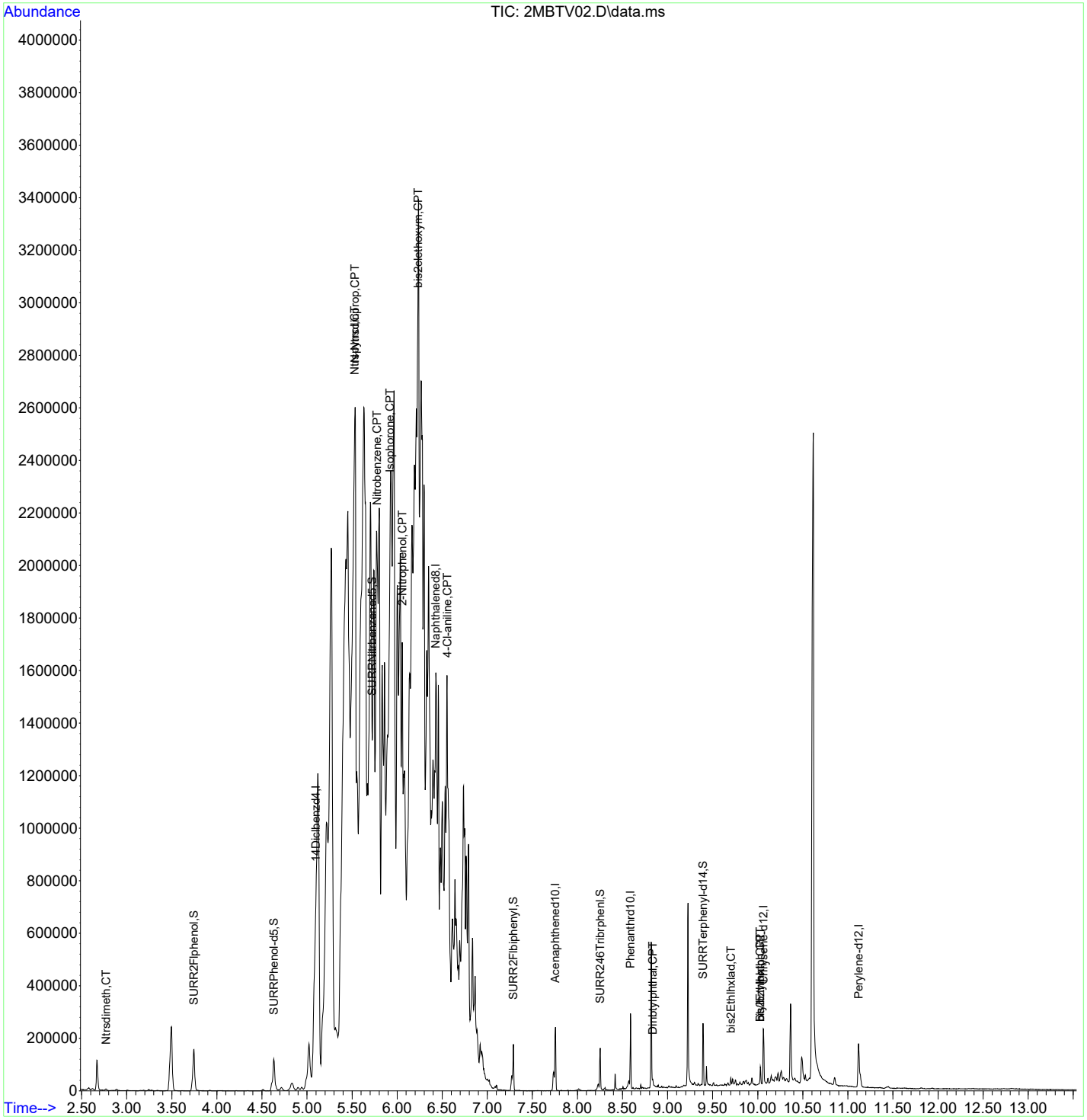
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 5.098 | 152 | 27782 | 20.00 | ug/mL | 0.00 |
| 21) Naphthalened8 | 6.428 | 136 | 55654 | 20.00 | ug/mL | 0.01 |
| 39) Acenaphthened10 | 7.755 | 164 | 36635 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.588 | 188 | 58439 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.062 | 240 | 49313 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 11.119 | 264 | 58855 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.746 | 112 | 64613 | 81.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 81.59% | | | |
| 7) SURRPhenol-d5 | 4.632 | 99 | 66434 | 65.25 | %REC | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 65.25% | | | |
| 22) SURRNitrbenzened5 | 5.723 | 82 | 37300 | 153.18 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 153.18% | | | |
| 44) SURR2Flbiphenyl | 7.289 | 172 | 41658 | 83.35 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.35% | | | |
| 62) SURR246Tribrphenl | 8.252 | 330 | 9965 | 114.96 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 114.96% | | | |
| 78) SURRTerphenyl-d14 | 9.394 | 244 | 44279 | 97.11 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 97.11% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.771 | 74 | 536 | 0.6058 | ug/mL# | 1 |
| 16) Ntrspyrrol | 5.530 | 100 | 13144 | 12.8016 | ug/mL# | 1 |
| 19) N-Ntrsdinprop | 5.533 | 70 | 117810 | 72.6814 | ug/mL# | 56 |
| 23) Nitrobenzene | 5.777 | 77 | 1781 | 1.3935 | ug/mL# | 1 |
| 24) Isophorone | 5.922 | 82 | 2337 | 1.0378 | ug/mL | 84 |
| 25) 2-Nitrophenol | 6.059 | 139 | 1321 | 2.4237 | ug/mL# | 69 |
| 27) bis2clethoxym | 6.235 | 93 | 1978 | 1.5354 | ug/mL# | 1 |
| 32) 4-Cl-aniline | 6.556 | 127 | 35495 | 35.1215 | ug/mL# | 49 |
| 73) Dinbtylphthal | 8.835 | 149 | 3298 | 0.8309 | ug/mL | 98 |
| 79) Btylbzylphth | 10.028 | 149 | 12335 | 4.8214 | ug/mL | 90 |
| 80) bis2Ethlhxlad | 9.701 | 129 | 3511 | 2.1296 | ug/mL | 92 |
| 84) bis2Ethlhxlph | 10.028 | 149 | 11979 | 4.7401 | ug/mL | 93 |

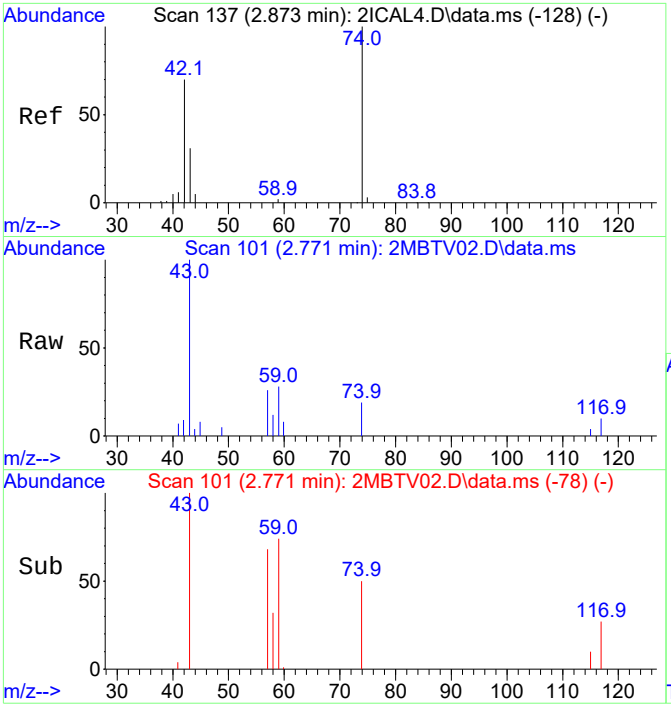
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTV02.D Vial: 31
Acq On : 21 Nov 2019 12:15 Operator: RPN
Sample : 166847,MBTV, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:52:30 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

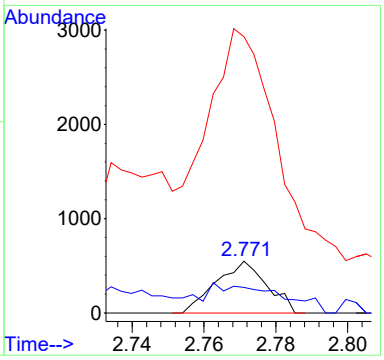


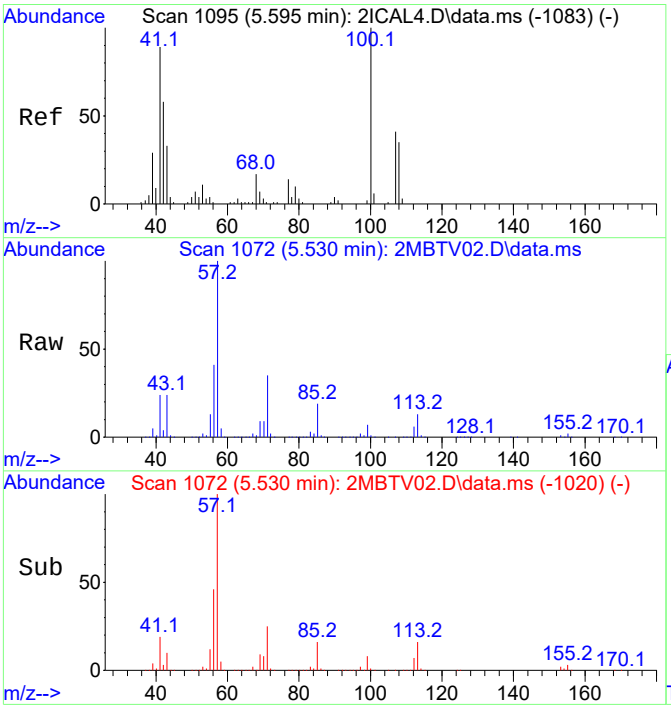



#2
Ntrsdimeth
Concen: 0.61 ug/mL
RT: 2.771 min Scan# 101
Delta R.T. -0.034 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 74 Resp: 536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 42 | 26.4 | 52.4 | 112.4# |
| 43 | 371.8 | 7.2 | 67.2# |

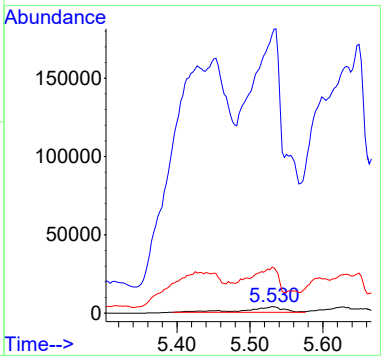


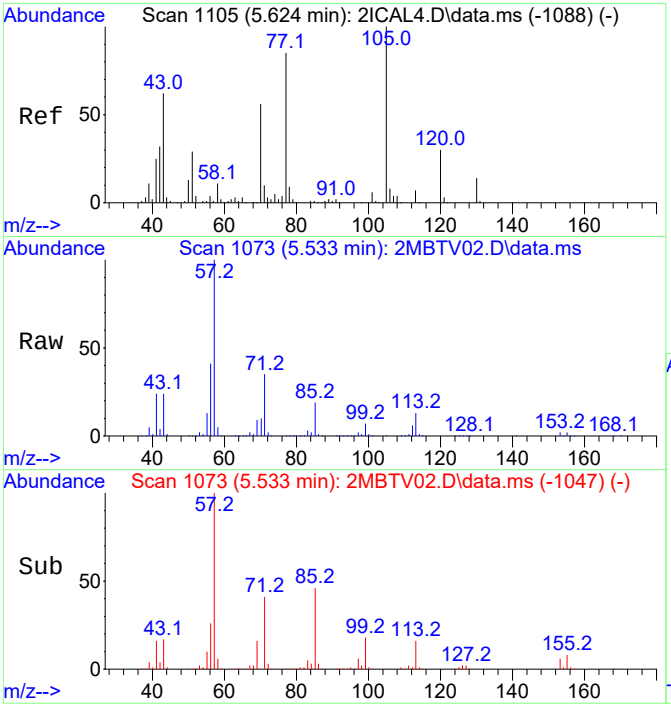




#16
Ntrspyrrol
Concen: 12.80 ug/mL
RT: 5.530 min Scan# 1072
Delta R.T. -0.003 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:100 Resp: 13144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 100 | 100 | | |
| 41 | 2377.2 | 66.8 | 126.8# |
| 42 | 382.6 | 37.0 | 97.0# |

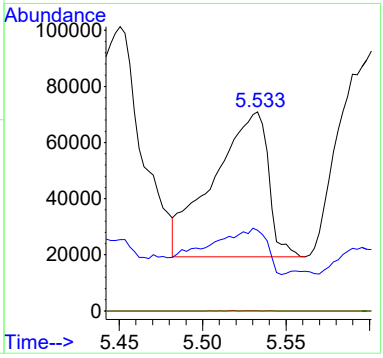


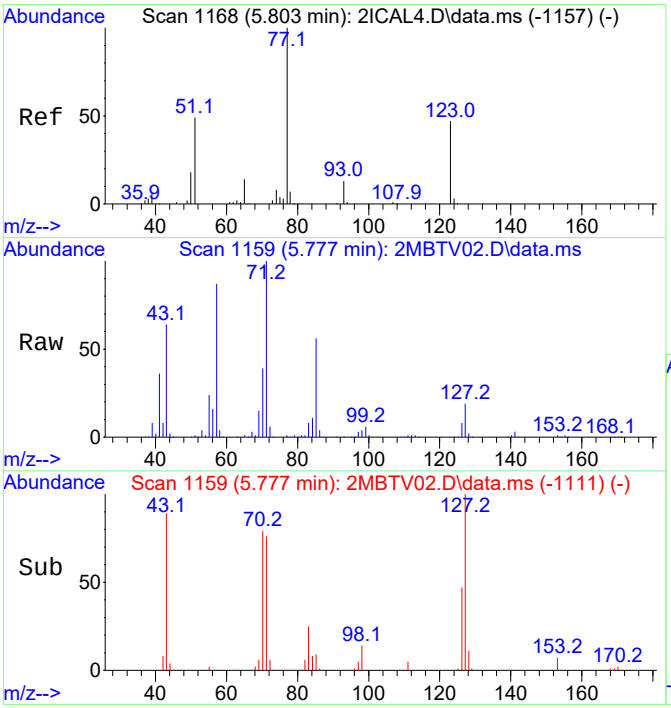



#19
N-Ntrsdinprop
Concen: 72.68 ug/mL
RT: 5.533 min Scan# 1073
Delta R.T. -0.025 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 70 Resp: 117810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 28.3 | 33.6 | 93.6# |
| 101 | 0.2 | 0.0 | 39.9 |
| 130 | 0.0 | 0.0 | 52.6 |

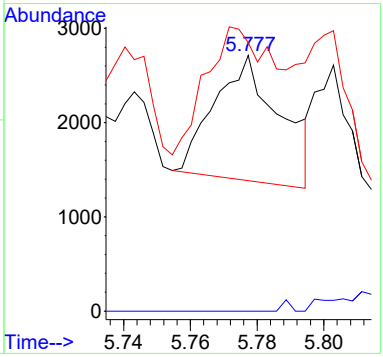


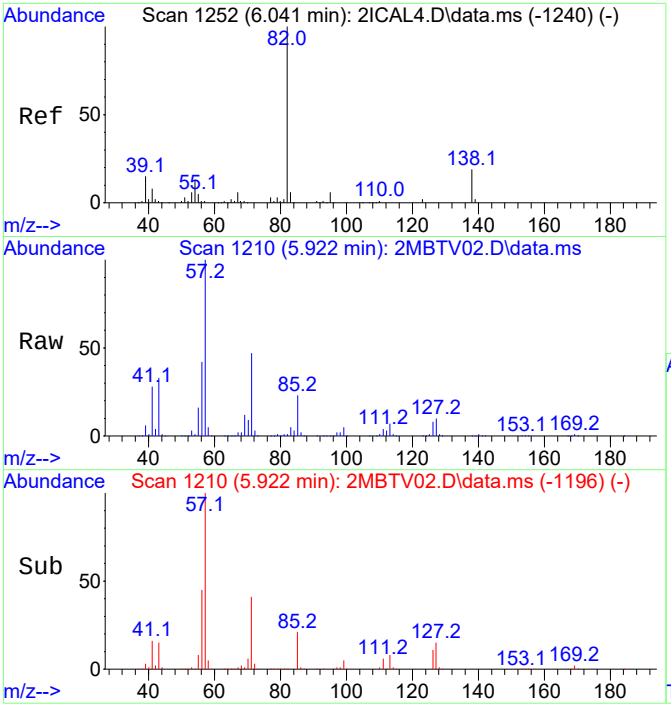




#23
Nitrobenzene
Concen: 1.39 ug/mL
RT: 5.777 min Scan# 1159
Delta R.T. 0.037 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 77 Resp: 1781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 0.0 | 11.8 | 71.8# |
| 65 | 98.0 | 0.0 | 43.1# |

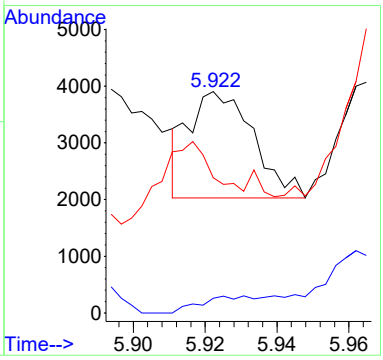


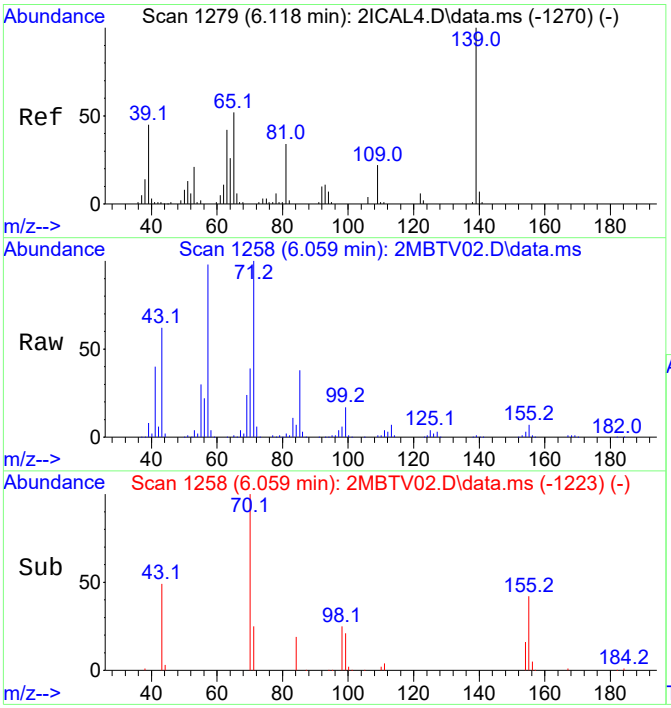



#24
Isophorone
Concen: 1.04 ug/mL
RT: 5.922 min Scan# 1210
Delta R.T. -0.060 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 82 Resp: 2337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 138 | 13.8 | 0.0 | 48.6 |
| 95 | 17.0 | 0.0 | 37.3 |

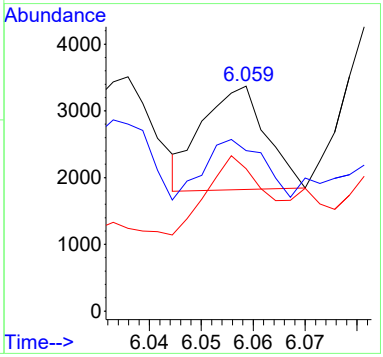


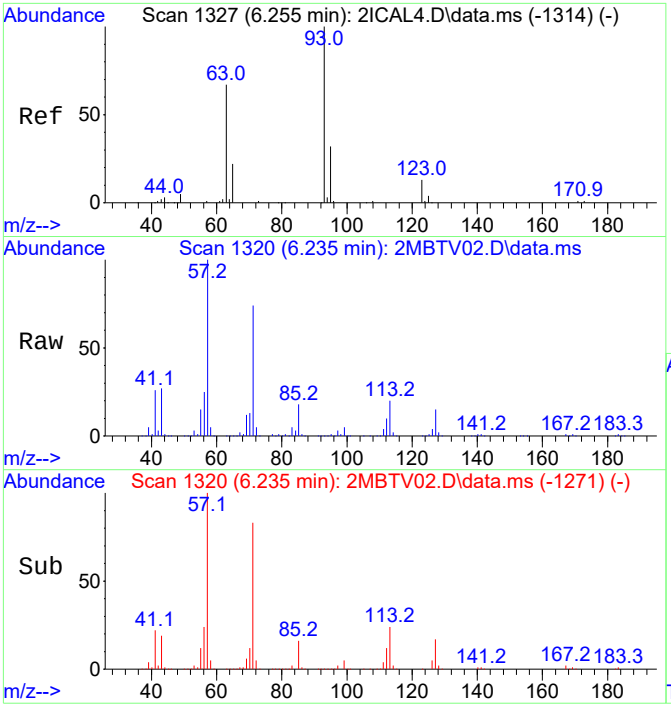




#25
2-Nitrophenol
Concen: 2.42 ug/mL
RT: 6.059 min Scan# 1258
Delta R.T. 0.001 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:139 Resp: 1321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 65 | 48.4 | 28.8 | 88.8 |
| 109 | 65.1 | 0.0 | 59.6# |

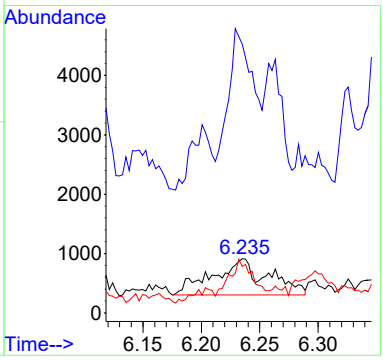


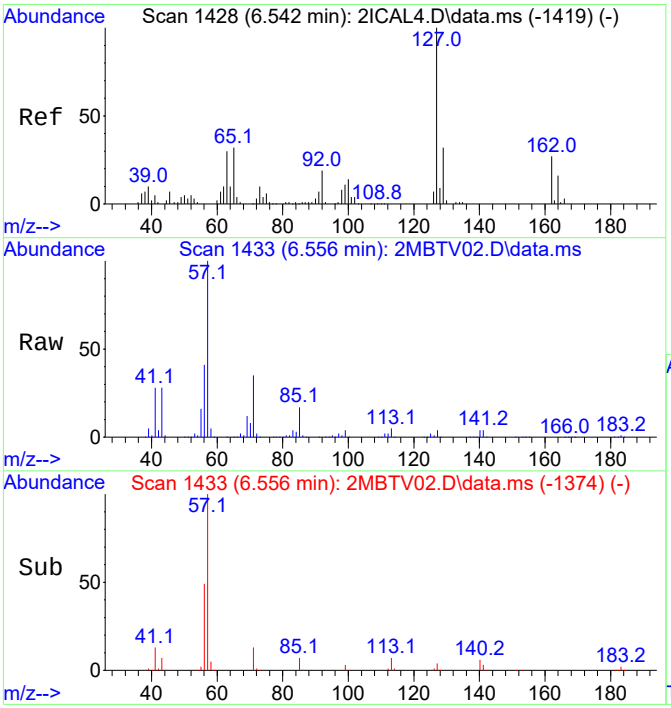



#27
bis2clethoxym
Concen: 1.54 ug/mL
RT: 6.235 min Scan# 1320
Delta R.T. 0.040 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion: 93 Resp: 1978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 401.5 | 3.0 | 63.0# |
| 123 | 96.2 | 0.0 | 44.8# |

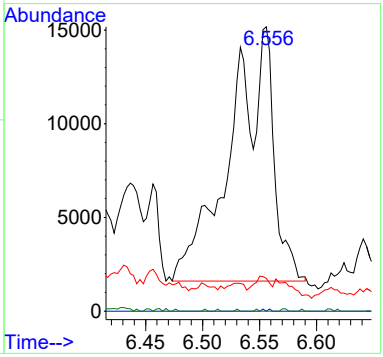


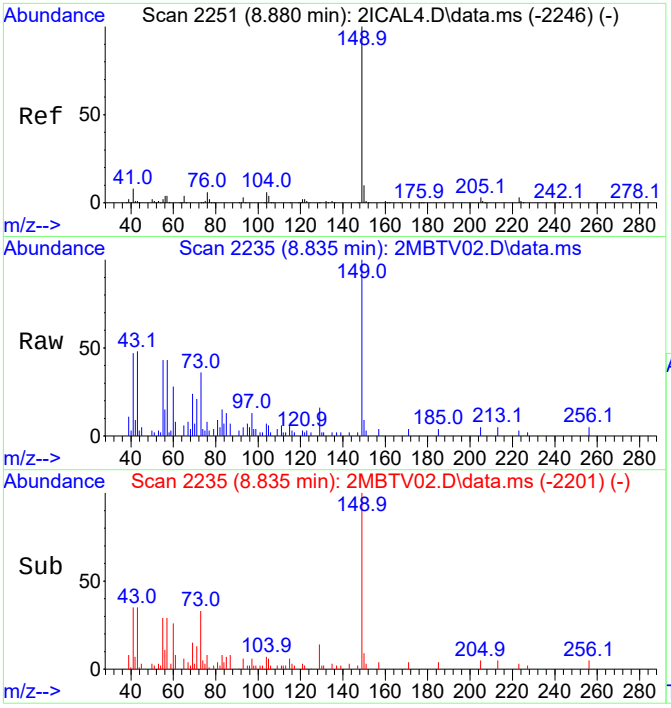




#32
4-Cl-aniline
Concen: 35.12 ug/mL
RT: 6.556 min Scan# 1433
Delta R.T. 0.069 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:127 Resp: 35495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 0.0 | 1.4 | 61.4# |
| 65 | 6.5 | 5.2 | 65.2 |
| 92 | 0.0 | 0.0 | 50.3 |

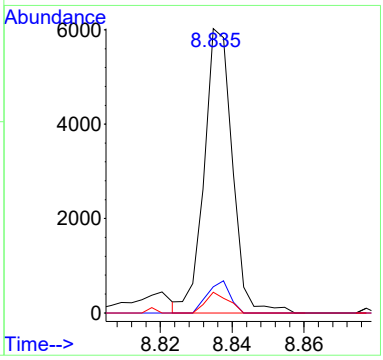


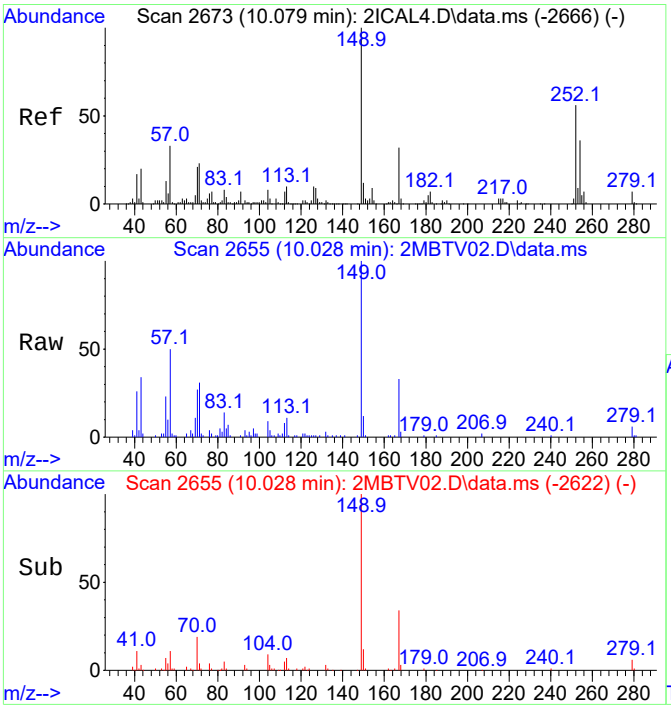



#73
Dinbtylphthal
Concen: 0.83 ug/mL
RT: 8.835 min Scan# 2235
Delta R.T. -0.002 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:149 Resp: 3298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.1 | 0.0 | 39.6 |
| 104 | 7.3 | 0.0 | 36.1 |

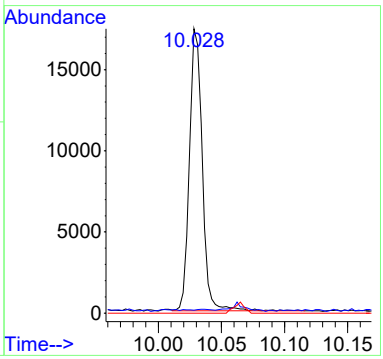


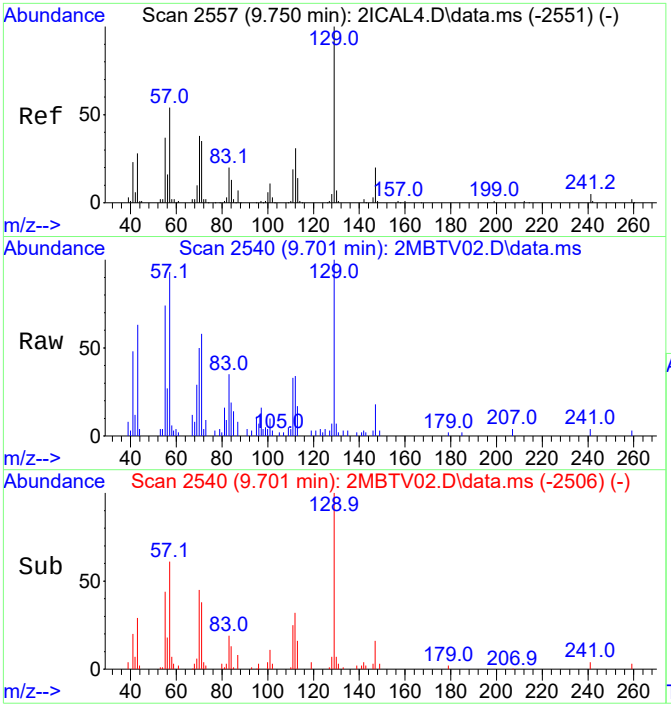




#79
Btylbzylphth
Concen: 4.82 ug/mL
RT: 10.028 min Scan# 2655
Delta R.T. -0.006 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:149 Resp: 12335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 0.0 | 0.0 | 33.2 |
| 206 | 0.0 | 0.0 | 30.0 |

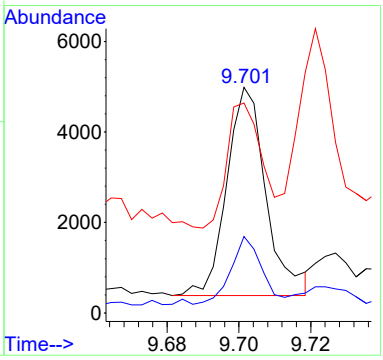


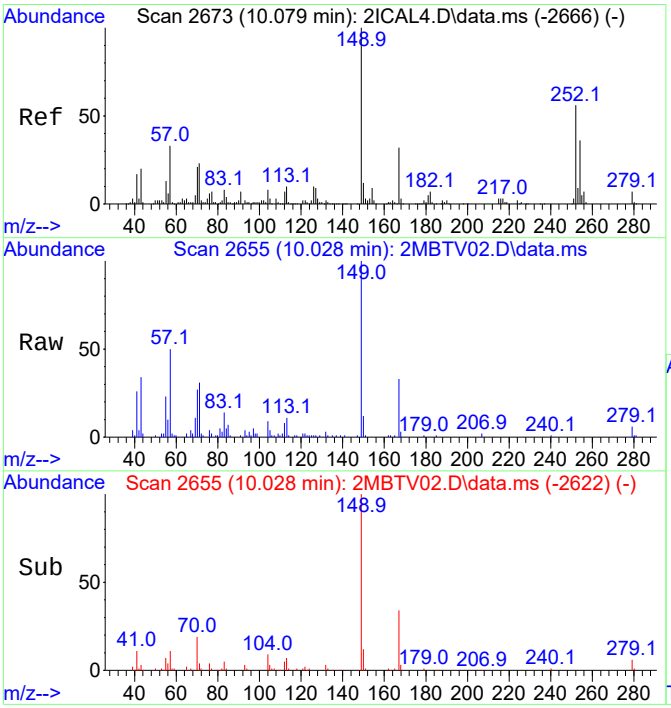



#80
bis2Ethlhxlad
Concen: 2.13 ug/mL
RT: 9.701 min Scan# 2540
Delta R.T. -0.003 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:129 Resp: 3511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 112 | 35.7 | 1.3 | 61.3 |
| 57 | 54.2 | 30.6 | 90.6 |

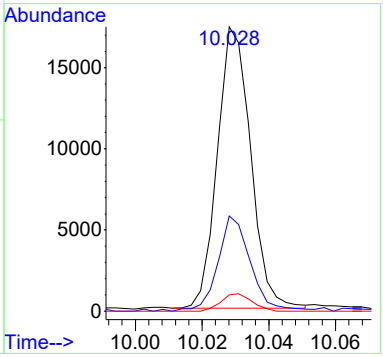



#84
bis2Ethlhxlph
Concen: 4.74 ug/mL
RT: 10.028 min Scan# 2655
Delta R.T. -0.006 min
Lab File: 2MBTV02.D
Acq: 21 Nov 2019 12:15

Tgt Ion:149 Resp: 11979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 33.8 | 0.0 | 59.3 |
| 279 | 5.7 | 0.0 | 36.0 |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTS02.D Vial: 32
Acq On : 21 Nov 2019 12:36 Operator: RPN
Sample : 166847,MBTS, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:19:10 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

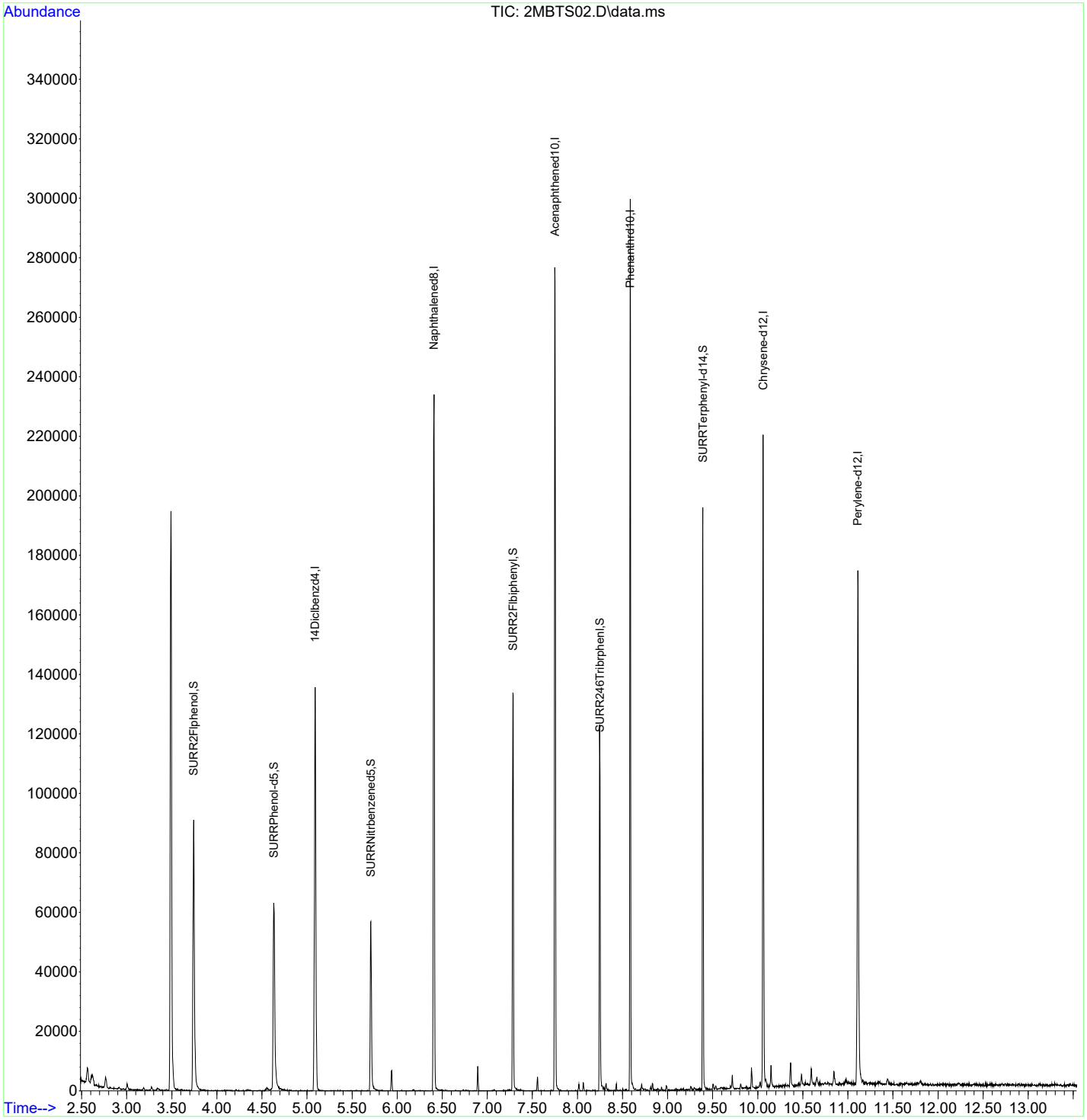
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 5.090 | 152 | 24004 | 20.00 | ug/mL | -0.01 |
| 21) Naphthalened8 | 6.408 | 136 | 88128 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.752 | 164 | 44624 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.585 | 188 | 62943 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.059 | 240 | 50425 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 11.111 | 264 | 60958 | 20.00 | ug/mL | -0.01 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.743 | 112 | 29589 | 43.24 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 43.24% | | | |
| 7) SURRPhenol-d5 | 4.632 | 99 | 29541 | 33.58 | %REC | -0.01 |
| Spiked Amount 100.000 | | | Recovery = 33.58% | | | |
| 22) SURRNitrbenzened5 | 5.709 | 82 | 19957 | 51.76 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 51.76% | | | |
| 44) SURR2Flbiphenyl | 7.286 | 172 | 32823 | 53.92 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.92% | | | |
| 62) SURR246Tribrphenl | 8.249 | 330 | 7739 | 73.29 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 73.29% | | | |
| 78) SURRTerphenyl-d14 | 9.392 | 244 | 38753 | 83.12 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 83.12% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2MBTS02.D Vial: 32
Acq On : 21 Nov 2019 12:36 Operator: RPN
Sample : 166847,MBTS, Inst : SVMS2
Misc : 3022,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:19:10 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2LCSW02.D Vial: 33
Acq On : 21 Nov 2019 12:58 Operator: RPN
Sample : 166847,LCSW, Inst : SVMS2
Misc : 360331,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:18:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 5.087 | 152 | 33533 | 20.00 | ug/mL | -0.02 |
| 21) Naphthalened8 | 6.411 | 136 | 123346 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.755 | 164 | 63305 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.590 | 188 | 80207 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.065 | 240 | 64952 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 11.119 | 264 | 77866 | 20.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.743 | 112 | 44285 | 46.33 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.33% | | | |
| 7) SURRPhenol-d5 | 4.627 | 99 | 49259 | 40.08 | %REC | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 40.08% | | | |
| 22) SURRNitrbenzened5 | 5.709 | 82 | 28907 | 53.56 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 53.56% | | | |
| 44) SURR2Flbiphenyl | 7.289 | 172 | 51660 | 59.82 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 59.82% | | | |
| 62) SURR246Tribrphenl | 8.252 | 330 | 11086 | 74.01 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 74.01% | | | |
| 78) SURRTerphenyl-d14 | 9.394 | 244 | 52033 | 86.64 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 86.64% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.845 | 74 | 15315 | 8.4916 | ug/mL | 98 |
| 3) Pyridine | 2.882 | 79 | 18675 | 7.0083 | ug/mL | 97 |
| 5) Aniline | 4.692 | 93 | 33932 | 8.9305 | ug/mL | 99 |
| 6) bis2Clethletr | 4.752 | 93 | 31236 | 10.9854 | ug/mL | 95 |
| 8) Phenol | 4.644 | 94 | 26449 | 8.3163 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.837 | 128 | 26899 | 11.0758 | ug/mL | 98 |
| 10) 13Diclbenz | 5.019 | 146 | 26956 | 10.2416 | ug/mL | 95 |
| 11) 14Diclbenz | 5.110 | 146 | 27097 | 10.3294 | ug/mL | 98 |
| 12) 12Diclbenz | 5.291 | 146 | 25010 | 10.5020 | ug/mL | 99 |
| 13) Benzyl alcoho | 5.252 | 108 | 15910 | 10.6867 | ug/mL | 97 |
| 14) bis2clispreth | 5.402 | 45 | 45228 | 11.4270 | ug/mL | 99 |
| 15) 2Methylphenol | 5.374 | 107 | 20832 | 11.2642 | ug/mL | 96 |
| 16) Ntrspyrrol | 5.522 | 100 | 15304 | 12.3635 | ug/mL | 99 |
| 17) Acetophenone | 5.547 | 105 | 38363 | 12.2061 | ug/mL | 99 |
| 18) Hexaclethane | 5.664 | 117 | 10038 | 10.2225 | ug/mL | 94 |
| 19) N-Ntrsdinprop | 5.544 | 70 | 23116 | 11.8153 | ug/mL | 98 |
| 20) 3&4Methylphenol | 5.547 | 107 | 25510 | 11.3116 | ug/mL | 88 |
| 23) Nitrobenzene | 5.729 | 77 | 32614 | 11.5140 | ug/mL | 98 |
| 24) Isophorone | 5.973 | 82 | 60863 | 12.1954 | ug/mL | 99 |
| 25) 2-Nitrophenol | 6.050 | 139 | 13857 | 11.4712 | ug/mL | 97 |
| 26) 24Dimthpheno | 6.098 | 122 | 21985 | 11.1713 | ug/mL | 96 |
| 27) bis2clethoxym | 6.186 | 93 | 33936 | 11.8860 | ug/mL | 97 |
| 28) 24Diclphenol | 6.286 | 162 | 19848 | 11.9902 | ug/mL | 99 |
| 29) 124Triclbenz | 6.357 | 180 | 20203 | 11.1500 | ug/mL | 98 |
| 30) Benzoic acid | 6.169 | 122 | 9954 | 11.1952 | ug/mL | 96 |
| 31) Naphthalene | 6.428 | 128 | 74036 | 11.3342 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.482 | 127 | 24956 | 11.1417 | ug/mL | 98 |
| 33) 26Diclphenol | 6.488 | 162 | 17374 | 14.0066 | ug/mL | 98 |
| 34) Hexaclprop | 6.508 | 213 | 12061 | 11.1596 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.542 | 225 | 9499 | 10.9835 | ug/mL | 96 |
| 36) 4Cl3methylphe | 6.903 | 107 | 28475 | 14.6670 | ug/mL | 99 |
| 37) 2Methylnaphth | 7.011 | 142 | 54433 | 12.2943 | ug/mL | 100 |
| 38) 1Methylnaphth | 7.087 | 141 | 44720 | 12.2821 | ug/mL | 100 |
| 40) Hxclcycpentdi | 7.133 | 237 | 10425 | 11.2499 | ug/mL | 98 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2LCSW02.D Vial: 33
Acq On : 21 Nov 2019 12:58 Operator: RPN
Sample : 166847,LCSW, Inst : SVMS2
Misc : 360331,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:18:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

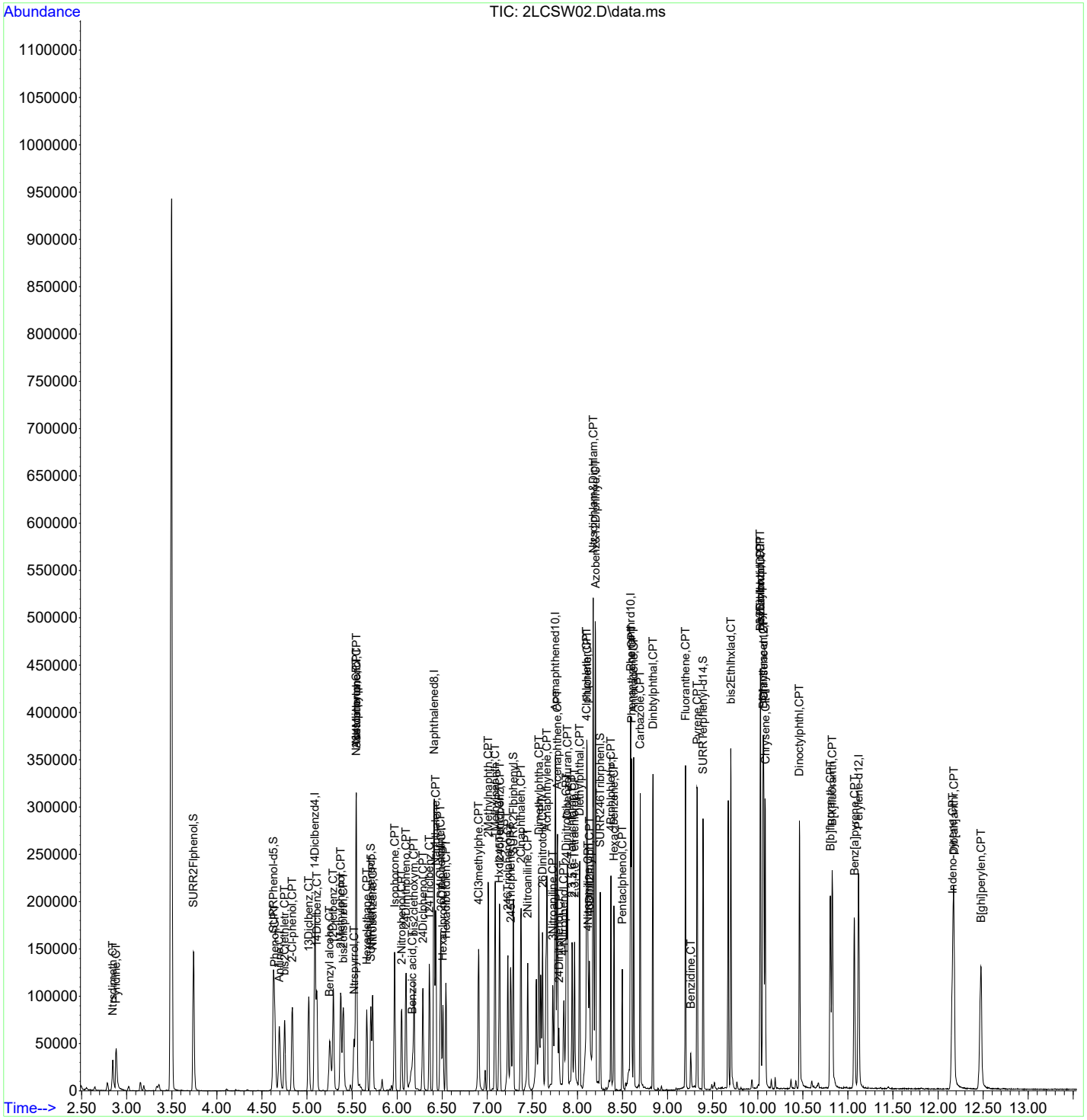
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.138 | 216 | 20610 | 12.4897 ug/mL | 99 |
| 42) 246Triclpheno | 7.229 | 196 | 16737 | 14.7159 ug/mL | 97 |
| 43) 245Triclpheno | 7.261 | 196 | 17517 | 15.3933 ug/mL | 95 |
| 45) 2Clnaphthalen | 7.374 | 162 | 47818 | 12.7529 ug/mL | 97 |
| 46) 2Nitroaniline | 7.448 | 65 | 24159 | 15.4543 ug/mL | 99 |
| 47) Acnaphthylene | 7.661 | 152 | 84870 | 14.1626 ug/mL | 99 |
| 48) Dimethylphtha | 7.573 | 163 | 60826 | 15.5244 ug/mL | 99 |
| 49) 26Dinitrotolu | 7.613 | 165 | 14984 | 15.8297 ug/mL | 86 |
| 50) Acenaphthene | 7.778 | 154 | 56351 | 14.1796 ug/mL | 100 |
| 51) 3Nitroaniline | 7.727 | 138 | 14483 | 14.6205 ug/mL | 96 |
| 52) 24Dinitphenol | 7.795 | 184 | 6288 | 13.3360 ug/mL# | 61 |
| 53) Dibenzofuran | 7.888 | 168 | 77105 | 15.0378 ug/mL | 100 |
| 54) 24Dinitrotolu | 7.877 | 165 | 19716 | 16.3417 ug/mL | 98 |
| 55) 4-Nitrophenol | 7.849 | 65 | 12403 | 11.5471 ug/mL | 95 |
| 56) 2,3,5,6-Tetrachlorop | 7.940 | 232 | 15630 | 16.8298 ug/mL | 95 |
| 57) 2,3,4,6-Tetrachlorop | 7.968 | 232 | 13212 | 16.0425 ug/mL | 97 |
| 58) Fluorene | 8.107 | 166 | 66921 | 15.8771 ug/mL | 99 |
| 59) 4Clphlphlethr | 8.102 | 204 | 29059 | 14.9618 ug/mL | 97 |
| 60) Diethylphthal | 8.025 | 149 | 65490 | 15.8783 ug/mL | 98 |
| 61) 4Nitroaniline | 8.119 | 138 | 17934 | 17.4716 ug/mL | 98 |
| 64) 46Dinit2mylph | 8.133 | 198 | 9485 | 14.6440 ug/mL | 97 |
| 65) Ntrsdiphlam&Diphlam | 8.175 | 169 | 87819 | 36.5488 ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.201 | 182 | 37475 | 35.5642 ug/mL | 97 |
| 67) 4Brphlphlethr | 8.372 | 248 | 14553 | 18.0912 ug/mL | 94 |
| 68) Hexaclbenzene | 8.406 | 284 | 14131 | 17.6396 ug/mL | 95 |
| 69) Pentaclphenol | 8.497 | 266 | 7709 | 16.7247 ug/mL | 97 |
| 70) Phenanthrene | 8.602 | 178 | 88527 | 17.8994 ug/mL | 99 |
| 71) Anthracene | 8.624 | 178 | 76433 | 16.5402 ug/mL | 98 |
| 72) Carbazole | 8.695 | 167 | 69768 | 19.3858 ug/mL | 99 |
| 73) Dinbtylphthal | 8.838 | 149 | 94953 | 17.4300 ug/mL | 99 |
| 74) Fluoranthene | 9.198 | 202 | 82224 | 16.6656 ug/mL | 98 |
| 76) Benzidine | 9.258 | 184 | 11165 | 10.1058 ug/mL | 94 |
| 77) Pyrene | 9.329 | 202 | 86102 | 17.6701 ug/mL | 99 |
| 79) Btylbzylphth | 10.031 | 149 | 59953 | 17.7917 ug/mL | 99 |
| 80) bis2Ethlhxlad | 9.701 | 129 | 39336 | 18.1149 ug/mL | 97 |
| 81) 33Diclbnzidin | 10.028 | 252 | 21933 | 18.4798 ug/mL | 99 |
| 82) B[a]anthracen | 10.059 | 228 | 71600 | 16.7555 ug/mL | 99 |
| 83) Chrysene | 10.085 | 228 | 70832 | 16.9440 ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.031 | 149 | 60062 | 18.0442 ug/mL | 98 |
| 85) Dinoctylphthl | 10.463 | 149 | 105859 | 16.9563 ug/mL | 100 |
| 87) B[b]fluoranth | 10.807 | 252 | 69768 | 16.2106 ug/mL | 98 |
| 88) B[k]fluoranth | 10.827 | 252 | 74067 | 17.5218 ug/mL | 99 |
| 89) Benz[a]pyrene | 11.074 | 252 | 69080 | 16.7507 ug/mL | 98 |
| 90) Indeno-pyrene | 12.162 | 276 | 89410 | 19.0842 ug/mL | 97 |
| 91) Dib[ah]anthr | 12.176 | 278 | 70725 | 18.8348 ug/mL | 98 |
| 92) B[ghi]perylen | 12.477 | 276 | 79904 | 19.5491 ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\2LCSW02.D Vial: 33
Acq On : 21 Nov 2019 12:58 Operator: RPN
Sample : 166847,LCSW, Inst : SVMS2
Misc : 360331,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 22 11:18:25 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356624MS.D Vial: 37
Acq On : 21 Nov 2019 14:23 Operator: RPN
Sample : 166847,MSW356624, Inst : SVMS2
Misc : 360333,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 14:39:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 5.090 | 152 | 26737 | 20.00 | ug/mL | -0.01 |
| 21) Naphthalened8 | 6.408 | 136 | 96426 | 20.00 | ug/mL | 0.00 |
| 39) Acenaphthened10 | 7.752 | 164 | 47987 | 20.00 | ug/mL | 0.00 |
| 63) Phenanthrd10 | 8.585 | 188 | 59264 | 20.00 | ug/mL | 0.00 |
| 75) Chrysene-d12 | 10.062 | 240 | 50930 | 20.00 | ug/mL | 0.00 |
| 86) Perylene-d12 | 11.113 | 264 | 68044 | 20.00 | ug/mL | -0.01 |
| System Monitoring Compounds | | | | | | |
| 4) SURR2Flphenol | 3.740 | 112 | 35469 | 46.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 46.54% | | | |
| 7) SURRPhenol-d5 | 4.629 | 99 | 40729 | 41.56 | %REC | -0.02 |
| Spiked Amount 100.000 | | | Recovery = 41.56% | | | |
| 22) SURRNitrbenzened5 | 5.709 | 82 | 23918 | 56.69 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 56.69% | | | |
| 44) SURR2Flbiphenyl | 7.286 | 172 | 41349 | 63.16 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 63.16% | | | |
| 62) SURR246Tribrphenl | 8.249 | 330 | 10621 | 93.54 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 93.54% | | | |
| 78) SURRTerphenyl-d14 | 9.392 | 244 | 35447 | 75.28 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 75.28% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Ntrsdimeth | 2.825 | 74 | 11866 | 8.2658 | ug/mL | 92 |
| 3) Pyridine | 2.865 | 79 | 13402 | 6.3494 | ug/mL | 94 |
| 5) Aniline | 4.697 | 93 | 8624 | 2.8466 | ug/mL | 93 |
| 6) bis2Clethletr | 4.754 | 93 | 25156 | 11.0959 | ug/mL | 99 |
| 8) Phenol | 4.646 | 94 | 21917 | 8.6430 | ug/mL | 97 |
| 9) 2-Cl-phenol | 4.837 | 128 | 21594 | 11.1515 | ug/mL | 99 |
| 10) 13Diclbenz | 5.021 | 146 | 21687 | 10.3341 | ug/mL | 98 |
| 11) 14Diclbenz | 5.112 | 146 | 21601 | 10.3273 | ug/mL | 98 |
| 12) 12Diclbenz | 5.294 | 146 | 20269 | 10.6746 | ug/mL | 98 |
| 13) Benzyl alcoho | 5.254 | 108 | 12397 | 10.4612 | ug/mL | 92 |
| 14) bis2clispreth | 5.402 | 45 | 35609 | 11.2835 | ug/mL | 98 |
| 15) 2Methylphenol | 5.377 | 107 | 17308 | 11.7375 | ug/mL | 97 |
| 16) Ntrspyrrol | 5.519 | 100 | 11450 | 11.6265 | ug/mL | 94 |
| 17) Acetophenone | 5.547 | 105 | 32988 | 13.1638 | ug/mL | 95 |
| 18) Hexaclethane | 5.664 | 117 | 8055 | 10.2881 | ug/mL | 99 |
| 19) N-Ntrsdinprop | 5.544 | 70 | 18717 | 11.9985 | ug/mL | 96 |
| 20) 3&4Methylphenol | 5.547 | 107 | 21328 | 11.8611 | ug/mL# | 86 |
| 23) Nitrobenzene | 5.729 | 77 | 26126 | 11.7985 | ug/mL | 96 |
| 24) Isophorone | 5.970 | 82 | 47070 | 12.0648 | ug/mL | 97 |
| 25) 2-Nitrophenol | 6.047 | 139 | 11060 | 11.7119 | ug/mL | 100 |
| 26) 24Dimthpheno | 6.098 | 122 | 18436 | 11.9833 | ug/mL | 99 |
| 27) bis2clethoxym | 6.186 | 93 | 27189 | 12.1815 | ug/mL | 98 |
| 28) 24Diclphenol | 6.283 | 162 | 17063 | 13.1855 | ug/mL | 97 |
| 29) 124Triclbenz | 6.357 | 180 | 16340 | 11.5357 | ug/mL | 97 |
| 30) Benzoic acid | 6.166 | 122 | 11085 | 14.2638 | ug/mL | 94 |
| 31) Naphthalene | 6.425 | 128 | 60176 | 11.7843 | ug/mL | 99 |
| 32) 4-Cl-aniline | 6.479 | 127 | 10847 | 6.1947 | ug/mL | 99 |
| 33) 26Diclphenol | 6.485 | 162 | 13327 | 13.7435 | ug/mL | 99 |
| 34) Hexaclprop | 6.505 | 213 | 10423 | 12.3364 | ug/mL | 97 |
| 35) Hexaclbutdien | 6.539 | 225 | 7508 | 11.1050 | ug/mL | 99 |
| 36) 4Cl3methylphe | 6.900 | 107 | 24376 | 16.0609 | ug/mL | 98 |
| 37) 2Methylnaphth | 7.008 | 142 | 42731 | 12.3457 | ug/mL | 98 |
| 38) 1Methylnaphth | 7.084 | 141 | 35184 | 12.3608 | ug/mL | 98 |
| 40) Hxclcycpentdi | 7.130 | 237 | 7922 | 11.2765 | ug/mL | 96 |

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356624MS.D Vial: 37
Acq On : 21 Nov 2019 14:23 Operator: RPN
Sample : 166847,MSW356624, Inst : SVMS2
Misc : 360333,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 14:39:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M

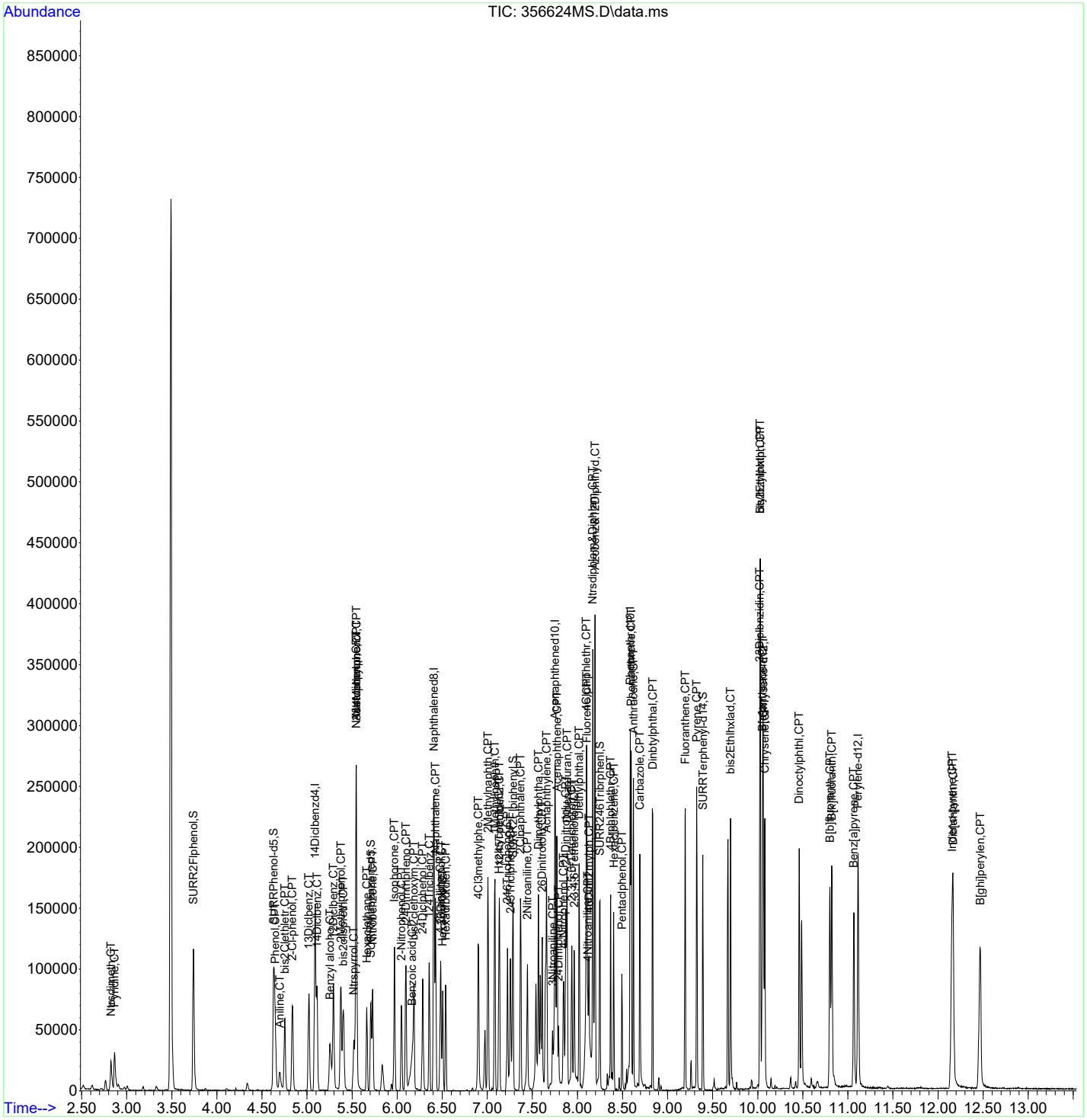
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1245Tetrclbenz | 7.135 | 216 | 16700 | 13.3508 | ug/mL | 97 |
| 42) 246Triclpheno | 7.223 | 196 | 13390 | 15.4734 | ug/mL | 98 |
| 43) 245Triclpheno | 7.258 | 196 | 14271 | 16.5440 | ug/mL | 98 |
| 45) 2Clnaphthalen | 7.368 | 162 | 37574 | 13.2197 | ug/mL | 97 |
| 46) 2Nitroaniline | 7.445 | 65 | 18573 | 15.6600 | ug/mL | 98 |
| 47) Acnaphthylene | 7.658 | 152 | 64469 | 14.1923 | ug/mL | 99 |
| 48) Dimethylphtha | 7.567 | 163 | 42362 | 14.2632 | ug/mL | 99 |
| 49) 26Dinitrotolu | 7.610 | 165 | 10681 | 14.8858 | ug/mL | 86 |
| 50) Acenaphthene | 7.772 | 154 | 42547 | 14.1237 | ug/mL | 99 |
| 51) 3Nitroaniline | 7.724 | 138 | 6730 | 8.9626 | ug/mL | 90 |
| 52) 24Dinitphenol | 7.789 | 184 | 5479 | 14.7269 | ug/mL | 95 |
| 53) Dibenzofuran | 7.886 | 168 | 59056 | 15.1943 | ug/mL | 98 |
| 54) 24Dinitrotolu | 7.871 | 165 | 14492 | 15.8460 | ug/mL | 98 |
| 55) 4-Nitrophenol | 7.843 | 65 | 8803 | 10.8116 | ug/mL | 89 |
| 56) 2,3,5,6-Tetrachlorop | 7.937 | 232 | 12004 | 17.0359 | ug/mL | 95 |
| 57) 2,3,4,6-Tetrachlorop | 7.965 | 232 | 10066 | 16.1241 | ug/mL | 97 |
| 58) Fluorene | 8.104 | 166 | 49721 | 15.5619 | ug/mL | 98 |
| 59) 4Clphlphlethr | 8.099 | 204 | 21558 | 14.6429 | ug/mL | 98 |
| 60) Diethylphthal | 8.019 | 149 | 47521 | 15.1994 | ug/mL | 99 |
| 61) 4Nitroaniline | 8.116 | 138 | 12449 | 15.9994 | ug/mL | 95 |
| 64) 46Dinit2mylph | 8.127 | 198 | 7680 | 15.9407 | ug/mL | 87 |
| 65) Ntrsdiphlam&Diphlam | 8.170 | 169 | 57724 | 32.5134 | ug/mL | 99 |
| 66) Azobenz&12Diphlhyd | 8.195 | 182 | 28707 | 36.8706 | ug/mL | 100 |
| 67) 4Brphlphlethr | 8.369 | 248 | 9462 | 15.9192 | ug/mL | 95 |
| 68) Hexaclbenzene | 8.403 | 284 | 10162 | 17.1678 | ug/mL | 96 |
| 69) Pentaclphenol | 8.494 | 266 | 5815 | 17.0096 | ug/mL | 98 |
| 70) Phenanthrene | 8.596 | 178 | 66243 | 18.1269 | ug/mL | 100 |
| 71) Anthracene | 8.621 | 178 | 55773 | 16.3345 | ug/mL | 99 |
| 72) Carbazole | 8.693 | 167 | 48827 | 18.3615 | ug/mL | 99 |
| 73) Dinbtylphthal | 8.835 | 149 | 65481 | 16.2676 | ug/mL | 99 |
| 74) Fluoranthene | 9.195 | 202 | 59036 | 16.1943 | ug/mL | 97 |
| 77) Pyrene | 9.323 | 202 | 63300 | 16.5672 | ug/mL | 99 |
| 79) Btylbzylphth | 10.028 | 149 | 75559 | 28.5965 | ug/mL | 93 |
| 80) bis2Ethlhxlad | 9.698 | 129 | 25143 | 14.7666 | ug/mL | 97 |
| 81) 33Diclbnzidin | 10.022 | 252 | 9206 | 9.8921 | ug/mL | 96 |
| 82) B[a]anthracen | 10.054 | 228 | 53377 | 15.9300 | ug/mL | 98 |
| 83) Chrysene | 10.079 | 228 | 51826 | 15.8108 | ug/mL | 99 |
| 84) bis2Ethlhxlph | 10.028 | 149 | 74566 | 28.5692 | ug/mL | 97 |
| 85) Dinoctylphthl | 10.460 | 149 | 70932 | 14.5678 | ug/mL | 100 |
| 87) B[b]fluoranth | 10.801 | 252 | 54779 | 14.5651 | ug/mL | 99 |
| 88) B[k]fluoranth | 10.821 | 252 | 59770 | 16.1807 | ug/mL | 98 |
| 89) Benz[a]pyrene | 11.065 | 252 | 55602 | 15.4287 | ug/mL | 99 |
| 90) Indeno-pyrene | 12.156 | 276 | 77330 | 18.8884 | ug/mL | 100 |
| 91) Dib[ah]anthr | 12.168 | 278 | 61049 | 18.6048 | ug/mL | 99 |
| 92) B[ghi]perylen | 12.469 | 276 | 67034 | 18.7677 | ug/mL | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112019\356624MS.D Vial: 37
Acq On : 21 Nov 2019 14:23 Operator: RPN
Sample : 166847,MSW356624, Inst : SVMS2
Misc : 360333,500ul+5ul IS S4170B Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 21 14:39:40 2019

Quant Method : C:\INSTARCH\METHOD\2S111919.M
Quant Title : Method for 8270 Analysis
QLast Update : Tue Nov 19 15:36:36 2019
Response via : Initial Calibration
DataAcq Meth:2S111919.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2MBW01.D Vial: 3
Acq On : 22 Nov 2019 12:52 Operator: RPN
Sample : 166715,MBW, Inst : SVMS2
Misc : 357990,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:29 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

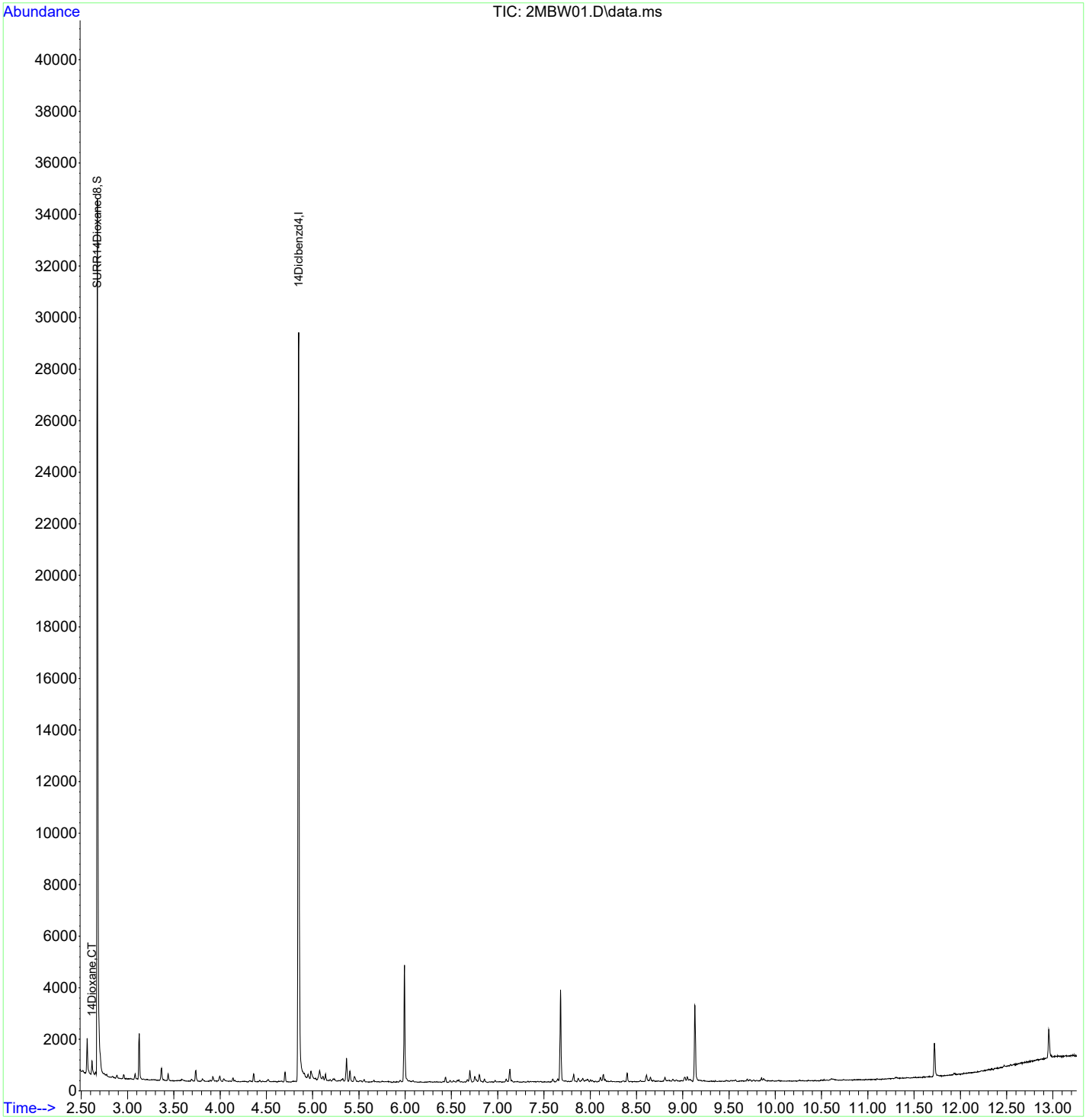
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.849 | 152 | 25920 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.673 | 64 | 11053 | 81.84 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 81.84% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.615 | 58 | 425 | 0.0323 | ug/mL# | 38 |

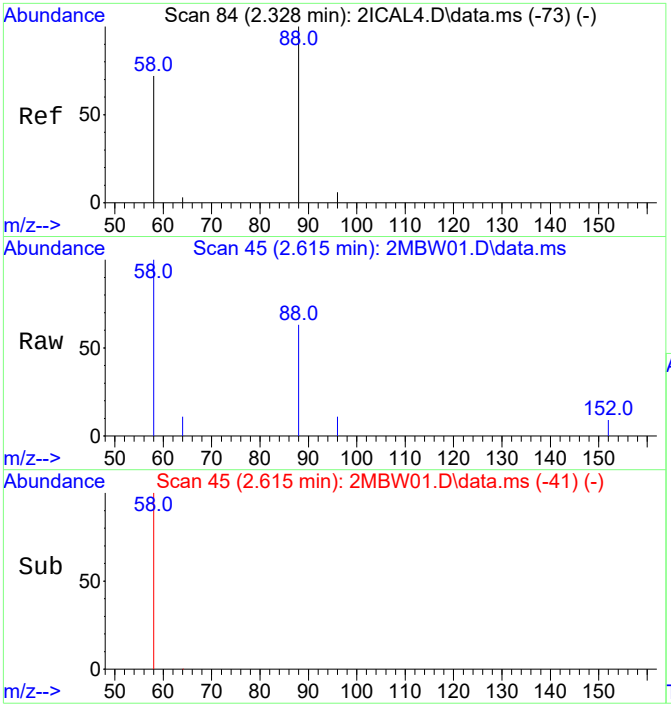
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2MBW01.D Vial: 3
Acq On : 22 Nov 2019 12:52 Operator: RPN
Sample : 166715,MBW, Inst : SVMS2
Misc : 357990,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:29 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

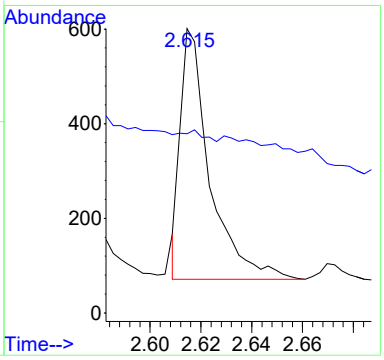





#3
14Dioxane
Concen: 0.03 ug/mL
RT: 2.615 min Scan# 45
Delta R.T. -0.087 min
Lab File: 2MBW01.D
Acq: 22 Nov 2019 12:52

Tgt Ion: 58 Resp: 425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 88 | 57.6 | 100.1 | 160.1# |



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2LCSW01.D Vial: 4
Acq On : 22 Nov 2019 13:12 Operator: RPN
Sample : 166715,LCSW, Inst : SVMS2
Misc : 357991,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:26 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

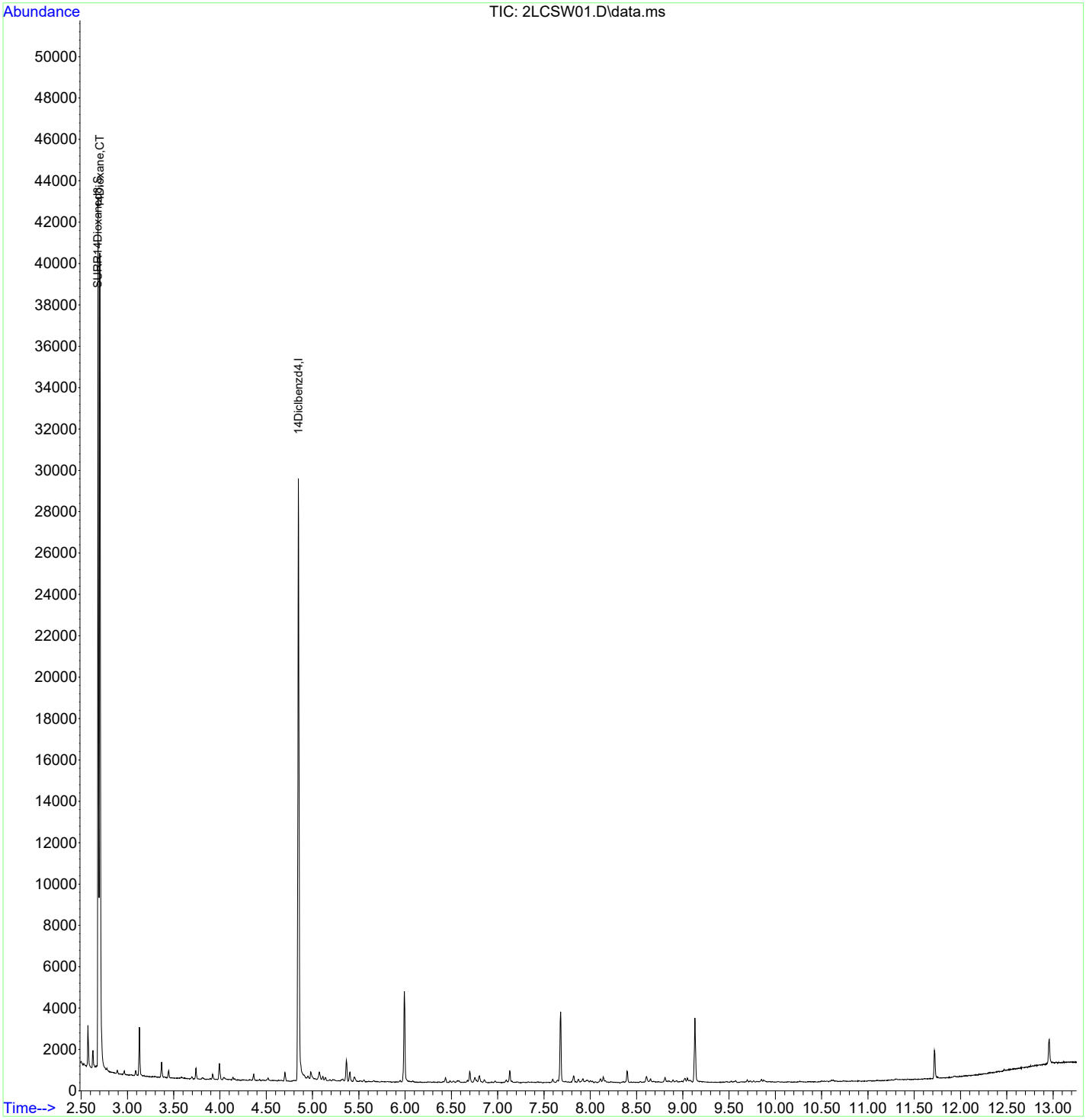
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 26495 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.681 | 64 | 11955 | 86.59 | %REC | 0.00 |
| Spiked Amount 100.000 | | | Recovery = 86.59% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.702 | 58 | 12414 | 0.9235 | ug/mL | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\2LCSW01.D Vial: 4
Acq On : 22 Nov 2019 13:12 Operator: RPN
Sample : 166715,LCSW, Inst : SVMS2
Misc : 357991,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:26 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227MS.D Vial: 13
Acq On : 22 Nov 2019 16:13 Operator: RPN
Sample : 166715,MSW356227, Inst : SVMS2
Misc : 357995,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:33:57 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

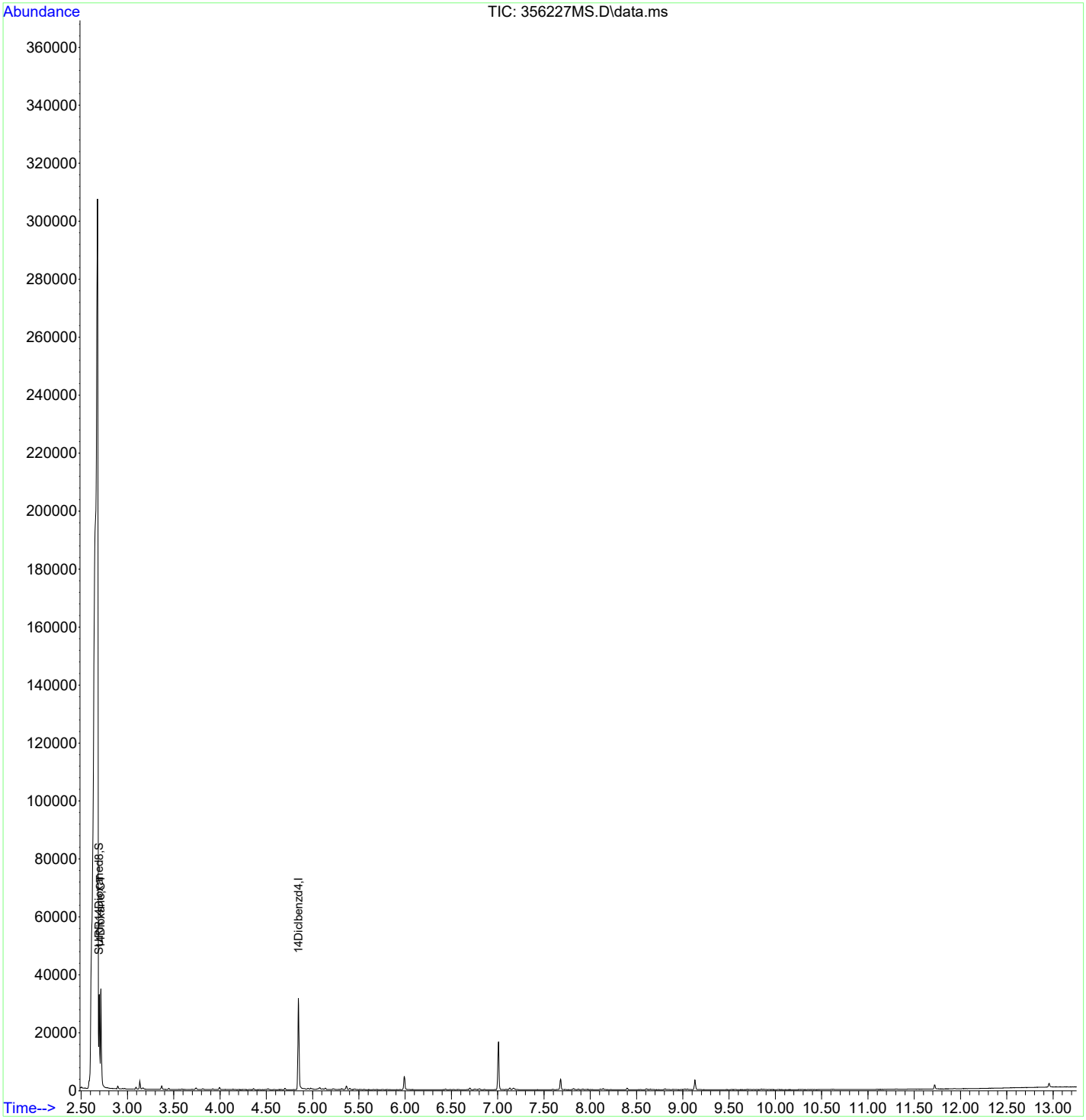
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 28336 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.693 | 64 | 8710 | 58.99 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 58.99% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.710 | 58 | 10691 | 0.7437 | ug/mL | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227MS.D Vial: 13
Acq On : 22 Nov 2019 16:13 Operator: RPN
Sample : 166715,MSW356227, Inst : SVMS2
Misc : 357995,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:33:57 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227SD.D Vial: 14
Acq On : 22 Nov 2019 16:33 Operator: RPN
Sample : 166715,MSDW356227, Inst : SVMS2
Misc : 357996,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:47 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M

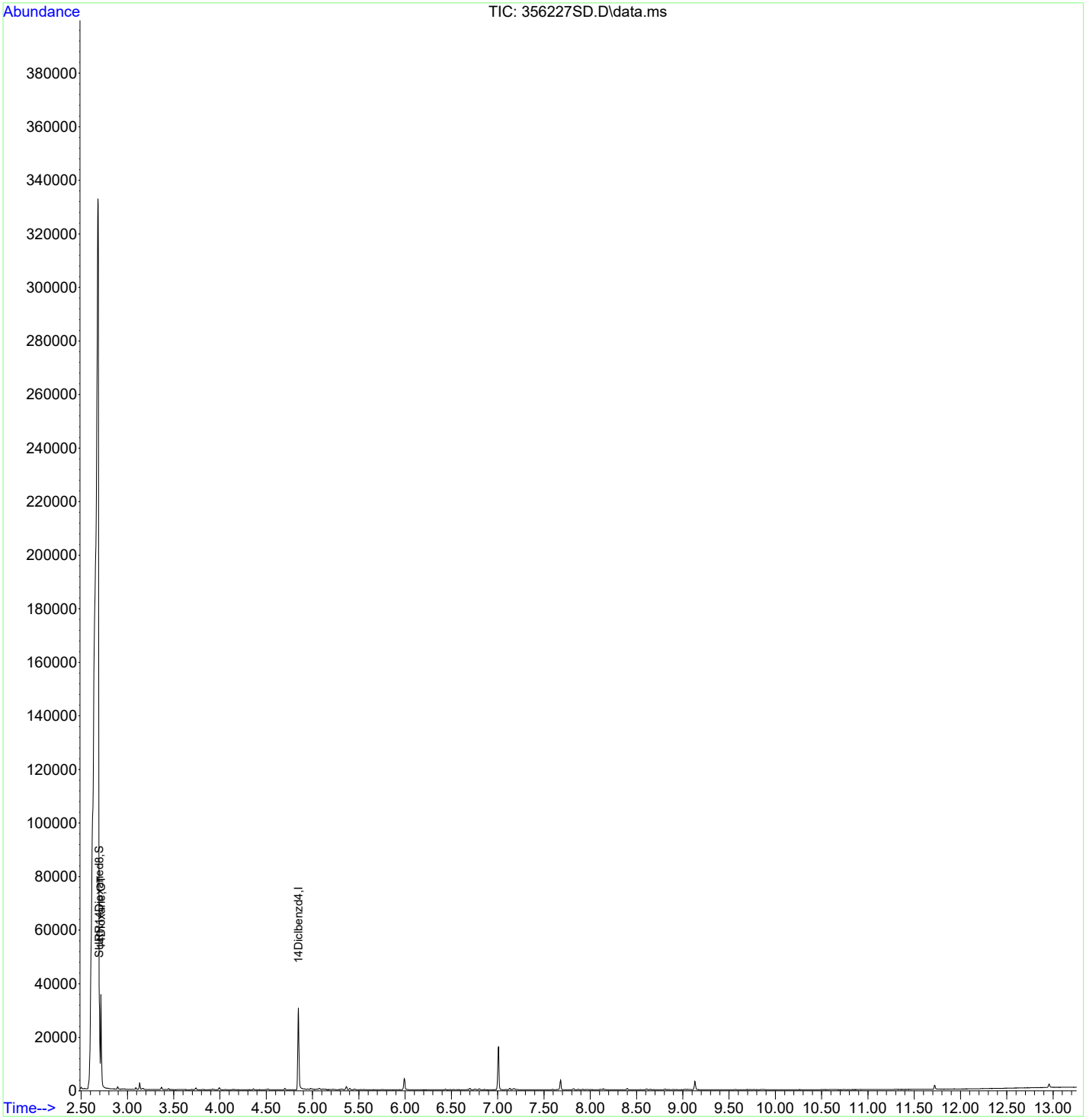
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 14Diclbenzd4 | 4.846 | 152 | 27742 | 1.00 | ug/mL | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) SURR14Dioxaned8 | 2.696 | 64 | 7678 | 53.11 | %REC | 0.01 |
| Spiked Amount 100.000 | | | Recovery = 53.11% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) 14Dioxane | 2.713 | 58 | 9959 | 0.7076 | ug/mL | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\INSTARCH\DATA\2S112219\356227SD.D Vial: 14
Acq On : 22 Nov 2019 16:33 Operator: RPN
Sample : 166715,MSDW356227, Inst : SVMS2
Misc : 357996,500ul+5ul IS SVMS8553 Multiplr: 1.00
Integrator: RTE
Quant Time: Nov 25 11:24:47 2019

Quant Method : C:\INSTARCH\METHOD\2DIOXN7A.M
Quant Title : Method for 8270 Analysis
QLast Update : Mon Nov 25 11:14:45 2019
Response via : Initial Calibration
DataAcq Meth:2DIOXN07.M



# SEMI - VOLATILE ORGANIC ANALYSIS
# LOGBOOK
# DOCUMENTS

# S SVOC 8270 WATER Analytical Run
# 166847 on 11/21/2019

Date Analyzed: _____ JJY Date Reviewed: _____

Date Entered: _____ 12/03/19 Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356218 | | 11/07/2019 | 1030 | | | HDR, INC | LONGHORN | SVOC 8270 QSM 5 TCLP | | M | 4 | |
| | | 46ADPT-TCLP | | | | | | | | 74636 | | | |
| 149521 | 356624 | | 11/07/2019 | 1700 | | | MAXXAM ANALYTICS | USAFA | SVOC 8270 QSM 5 TCLP | | M | 4 | |
| | | ACADM-WW-001 | | | | | | | | 74636 | | | |
| 149521 | 356626 | | 11/07/2019 | 1700 | | | MAXXAM ANALYTICS | USAFA | SVOC 8270 QSM 5 TCLP | | M | 4 | |
| | | ACADM-WS-001 | | | | | | | | 74636 | | | |
| | 360330 | | | | | | | | SVOC 8270 QSM 5 TCLP | | | | |
| | | | | | MBW | | | | | 74636 | | | |
| | 360331 | | | | | | | | SVOC 8270 QSM 5 TCLP | | | | |
| | | | | | LCSW | | | | | 74636 | | | |
| | 360333 | | 11/07/2019 | 1700 | | | | | SVOC 8270 QSM 5 TCLP | | | | |
| | | ACADM-WW-001 | | | MSW | 356624 | | | | 74636 | | | |

**6** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# PREP WORKSHEET
## on 11/21/2019

Prep Batch **74,636** Date Prepped: 11/20/2019 Prepped By AJZ

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 360330 | MBW | | SVOC 8270 QSM 5 | LIQUID | 1.0 | | 0.10 | | |
| | 360331 | LCSW | | SVOC 8270 QSM 5 | LIQUID | 1.0 | | 0.10 | | |
| 149511 | 356218 | | | SVOC 8270 QSM 5 | TCLP | 1.0 | | 0.10 | 4 | |
| 149521 | 356624 | | | SVOC 8270 QSM 5 | TCLP | 1.0 | | 0.10 | 4 | |
| | 356626 | | | SVOC 8270 QSM 5 | TCLP | 1.0 | | 0.10 | 4 | |
| | 360333 | MSW | 356624 | SVOC 8270 QSM 5 | TCLP | 1.0 | | 0.10 | | |

Notes:_____

# Method 8270-SV GC/MS Extraction Bench Sheet

(SOP Reference #'s SV006 & SV007)

3510=WATER
3546=Microwave

| | |
|---|---|
| **Prep Batch #:** | 74636 |
| **Prep Method:** | 3510 |
| **Analyst:** | AJZ |
| **Date:** | 11/20/2019 |
| **Start Time:** | 14:00 |
| **End Date:** | 11/21/2019 |
| **End Time:** | 09:25 |

Matrix: TCLP
Balance Used: NA
Ave MW temp(°C): NA

**Reagent Lots>>>**

| | |
|---|---|
| Sodium Sulfate | MISC0670 |
| Diatomaceous Earth | NA |
| Dionex Solution | NA |
| Methylene Chloride | DX645 |
| Acetone | NA |
| Sulfuric Acid | MISC0634 |
| Sodium Hydroxide | MISC0633 |

Initial Concentration By: NA
Date: NA
GPC Cleanup? (yes/no): NA
Date: NA
Final Concentration By: JLH
Date: 11/21/2019

| Microwave Cell # | Sample ID | Comments | | (Solids) Sample Weight (g) | (Liquids) Sample Volume (L) | Final Volume (mL) | ph Adj. <2 (Yes/No) | pH Adj. >12 (Yes/No) |
|---|---|---|---|---|---|---|---|---|
| | 360330 | MB | | | 0.10 | 1.0 | Y | Y |
| | 360331 | LCS | | | 0.10 | 1.0 | Y | Y |
| | 356218 | | | | 0.10 | 1.0 | Y | Y |
| | 356624 | | | | 0.10 | 1.0 | Y | **Y** |
| | 356626 | | | | 0.10 | 1.0 | Y | Y |
| | SBLANK 3022 | | | | 0.10 | 1.0 | Y | Y |
| | VBLANK 3022 | | | | 0.10 | 1.0 | Y | Y |
| | | | | | | 1.0 | | |
| | | | | | | 1.0 | | |
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| | | | | | | 1.0 | | |
| | | | | | | 1.0 | | |
| | | | | | | 1.0 | | |
| | 360333 | (MS) | Parent Sample | | 0.10 | 1.0 | Y | Y |
| | | (MSD) | 356624 | | | 1.0 | | |

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (mL): 1
Spike Concentration (µg/mL): 20
Spike Reference #: SVMS8521

Surrogate Spike Amount (mL): 1
Surrogate Spike Conc. (µg/mL): 20/40
Surrogate Spike Reference #: SVMS8523

Relinquished to: RPN
Date: 11/21/2019

Reviewed By: JJY
Date: 12/03/2019

CT Laboratories
Organic Laboratory Section

FORM #: FSV6-01
Rev. #: 2.2
Effective Date: 02/22/2019

# 8270 SVOC Analysis Data Review Checklist

| | |
|---|---|
| **Analytical Run #: 166847** | **Independent Reviewer: JJY** |
| **Sequence Date: 11/21/2019** | **Date of Review: 11/22/2019** |
| **Analyst/Data Interpreter: RPN** | **Approval: Yes** |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| Requirements: | Acceptance Criteria | Analyst Review | | Independent Review | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **1. INITIAL CALIBRATION (ICAL)** | | | | | | |
| a. Was the initial calibration performed using a minimum of five standard concentration levels? | Lowest standard at or near MRL | x | | x | | |
| b. SPCC responses. | Avg. RRF ≥ 0.05 | x | | x | | |
| c. Is the variation between calibration response factors for all concentration levels <15% RSD or $r^2$ > 0.990 for the regression line. RSD≤ 15%, ≤ 30% for CCCs. | RSD≤ 15%, ≤ 30% for CCCs | x | | x | | |
| d. Were the standards used for the ICAL uniquely identified? | | x | | x | | |
| e. Was there a DFTPP standard analyzed prior to the ICAL? | | x | | x | | |
| f. Was an instrument blank (IB) analyzed prior to the ICAL? | | x | | x | | |
| g. Data reviewer: was the ICAL viewed on the data system (ChemStation) to verify that peaks are correctly identified? | Viewed on data system by 2nd analyst | | | x | | |
| **2. INITIAL CALIBRATION VERIFICATION (ICV)** | | | | | | |
| a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples? | Second source | x | | x | | |
| b. Were the SPCC within QC limits | RRF ≥ 0.05 | x | | x | | |
| c. Were the CCCs within QC limits | %D ≤ 20% | x | | x | | |
| d. Were the ICVs uniquely identified (i.e. Standard Number)? | | x | | x | | |
| **3. CONTINUING CALIBRATION VERIFICATION (CCV)** | | | | | | |
| a. Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours. | | x | | x | | |
| b. Were SPCC compounds acceptable? | RRF ≥ 0.050 | x | | x | | |
| c. Were the CCCs compounds acceptable? | %D ≤ 20% | x | | x | | |
| d. Were the recoveries for the CCVs acceptable? | %D≤20% | x | | x | | |
| e. Was each CCV uniquely identified (i.e. Standard Number)? | | x | | x | | |

**Additional Comments:**

Analyzed for TCLP compounds.

Organic Laboratory Section

**Analytical Run #: 166847**

FORM #: FSV6-01
Rev. #: 2.2
Effective Date: 02/22/2019

## 8270 SVOC Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **4. DFTPP** | | | | | | |
| a. Was a DFTPP tune check ran at the beginning of every twelve hour shift? | | x | | x | | |
| b. Were the relative abundance criteria met? | | x | | x | | |
| c. Was the peak tailing <2 on Pentachlorophenol and <2 on Benzidine? | Tailing <2% | x | | x | | |
| d. Was the breakdown of DDT to DDE and DDD less than 20% | Breakdown ≤20% | x | | x | | |
| **5. BLANKS** | | | | | | |
| a. Was method blank (MB) analyzed prior to the analysis of samples? | | x | | x | | |
| b. Were the MB results less than the reporting limit (RL)? | < MRL | x | | x | | See Below |
| c. Was a MB prepped and analyzed at a frequency of one per Prep Batch? | Batch <20 samples | x | | x | | |
| **6. LABORATORY CONTROL SAMPLE (LCS)** | | | | | | |
| a. Was a LCS analyzed prior to the analysis of samples? | | x | | x | | |
| b. Were the LCS recoveries in each LCS within the acceptance criteria? | In-house limits or client specified limits | x | | x | | |
| **7. MATRIX SPIKES** | | | | | | |
| a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | x | | x | | |
| b. Were MS recoveries in each MS within the acceptance criteria? | In-house limits or client specified limits | x | | x | | |
| **8. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE** | | | | | | |
| a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | | x | | x | tclp |
| b. Were MSD or LCSD recoveries within the acceptance criteria? | In-house limits or client specified limits | na | | x | | |
| c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria? | In-house limits or client specified limits | na | | x | | |

**Additional Comments:**

TCLP Vessel blank appeared to be contaminated. No hits for any tclp compounds.

Organic Laboratory Section

**Analytical Run #: 166847**

FORM #: FSV6-01
Rev. #: 2.2
Effective Date: 02/22/2019

## 8270 SVOC Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **9. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)** | | | | | | |
| a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | X | | X | | |
| b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria? | | X | | X | | |
| c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? | | X | | X | | |
| d. Were all samples extracted within holding times? | Waters extracted within 7days of collection, soils 14 days of collection | X | | X | | |
| e.Were all samples analyzed within 40 days of extracting? | Analysis within 40 days of extraction | X | | X | | |
| f. Did the samples require additional cleanup steps? (i.e. acid treatment, acid-base fractioning, and GPC) | GPC, Acid/Base, Treatments | | X | | X | |
| g. Where all manual integratinons performed properly? | | X | | X | | |
| h. Was the rational for the manual integration verified? | | X | | X | | |
| **10. RECORDS AND REPORTING** | | | | | | |
| a. Are Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, initial and rerun raw and process data present in the data file? | | X | | X | | |
| b. Are all chromatograms dated and initialed? | | X | | X | | |
| c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, a NCR completed? | | X | | X | | |
| d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data? | | X | | X | | |
| e. Is the ICAL method referenced on the Raw Data? | | X | | X | | |

**Additional Comments:**

Sequence Name: C:\INSTARCH\SEQUENCE\2S111919.s
Comment: 8270 ICAL
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S111919\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info | |
|---|---|---|---|---|
| 1) | Sample | 100 | 2PRIM01 | 2S111919 PRIMER 40ug/mL |
| 2) | DFTPP | 1 | 2DFTP420 | 2DFTPP2 DFTPP TUNE SVMS8353 |
| 3) | Sample | 99 | 2IB01 | 2S111919 InstrumentBlank |
| 4) | Sample | 2 | 2ICAL7 | 2S111919 ICAL 50ug/mL SVMS8532 |
| 5) | Sample | 3 | 2ICAL6 | 2S111919 ICAL 40ug/mL SVMS8531 |
| 6) | Sample | 4 | 2ICAL5 | 2S111919 ICAL 30ug/mL SVMS8530 |
| 7) | Sample | 5 | 2ICAL4 | 2S111919 ICAL 20ug/mL SVMS8529 |
| 8) | Sample | 6 | 2ICAL3 | 2S111919 ICAL 10ug/mL SVMS7528 |
| 9) | Sample | 7 | 2ICAL2 | 2S111919 ICAL 5ug/mL SVMS8527 |
| 10) | Sample | 8 | 2ICAL1 | 2S111919 ICAL 1ug/mL SVMS8526 |
| 11) | Sample | 9 | 2ICV1 | 2S111919 ICV 20ug/mL SVMS8533 |
| 12) | Sample | 10 | 2ICV2 | 2S111919 ICV 40ug/mL SVMS8534 |
| 13) | DFTPP | 1 | 2DFTP421 | 2DFTPP2 DFTPP TUNE SVMS8353 |
| 14) | Sample | 2 | 2CCV570 | 2S111919 CCV 20ug/mL SVMS8535 |
| 15) | Sample | 3 | 2MBW01 | 2S111919 166610,MBW, |
| 16) | Sample | 4 | 2LCSW01 | 2S111919 166610,LCSW, |
| 17) | Sample | 5 | 354346 | 2S111919 166610,354346, |
| 18) | Sample | 6 | 354347 | 2S111919 166610,354347, |
| 19) | Sample | 7 | 354348 | 2S111919 166610,354348, |
| 20) | Sample | 8 | 354988 | 2S111919 166610,354988, |
| 21) | Sample | 9 | 354989 | 2S111919 166610,354989, |
| 22) | Sample | 10 | 354990 | 2S111919 166610,354990, |
| 23) | Sample | 11 | 354991 | 2S111919 166610,354991, |
| 24) | Sample | 12 | 354348MS | 2S111919 166610,MSW354348, |
| 25) | Sample | 13 | 354348SD | 2S111919 166610,MSDW354348, |
| 26) | Sample | 14 | 2MBW02 | 2S111919 166393,MBW, |
| 27) | Sample | 15 | 2LCSW02 | 2S111919 166393,LCSW, |
| 28) | Sample | 16 | 351102 | 2S111919 166393,351102, |
| 29) | Sample | 17 | 351122 | 2S111919 166393,351122, |
| 30) | Sample | 18 | 351129 | 2S111919 166393,351129, |
| 31) | Sample | 19 | 353388 | 2S111919 166393,353388, |
| 32) | Sample | 20 | 353389 | 2S111919 166393,353389, |
| 33) | Sample | 21 | 351102MS | 2S111919 166393,MSW351102, |
| 34) | Sample | 22 | 351102SD | 2S111919 166393,MSDW351102, |
| 35) | Sample | 2 | 2CCV571 | 2S111919 CCV 20ug/mL SVMS8535 |
| 36) | Sample | 23 | 358002 | 2S111919 166614,358002, |
| 37) | Sample | 24 | 358003MS | 2S111919 166614,MSW358002, |
| 38) | Sample | 25 | 358003SD | 2S111919 166614,MSDW358002, |
| 39) | Sample | 26 | 353215 | 2S111919 166408,353215, |
| 40) | Sample | 27 | 353215MS | 2S111919 166408,MSW353215, |
| 41) | Sample | 28 | 353215SD | 2S111919 166408,MSDW353215, |
| 42) | Sample | 29 | 351268D | 2S111919 166408,351268,10, |
| 43) | Sample | 30 | 354996D | 2S111919 166614,354996,10, |

Sequence Name: C:\INSTARCH\SEQUENCE\2S112019.S
Comment: 8270
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S112019\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info | |
|---|---|---|---|---|
| 1) | Sample | 100 | 2PRIM01 | 2S111919 PRIMER 40ug/mL |
| 2) | DFTPP | 1 | 2DFTP422 | 2DFTPP2 DFTPP TUNE SVMS8353 |
| 3) | Sample | 2 | 2CCV572 | 2S111919 CCV 20ug/mL SVMS8535 |
| 4) | Sample | 3 | 2MBW01 | 2S111919 166802,MBW, |
| 5) | Sample | 4 | 2LCSW01 | 2S111919 166802,LCSW, |
| 6) | Sample | 5 | 353389 | 2S111919 166393,353389,50 |
| 7) | Sample | 6 | 357029 | 2S111919 166802,357029, |
| 8) | Sample | 7 | 357030 | 2S111919 166802,357030, |
| 9) | Sample | 8 | 357031 | 2S111919 166802,357031, |
| 10) | Sample | 9 | 357032 | 2S111919 166802,357032, |
| 11) | Sample | 10 | 357033 | 2S111919 166802,357033, |
| 12) | Sample | 11 | 357034 | 2S111919 166802,357034, |
| 13) | Sample | 12 | 357035 | 2S111919 166802,357035, |
| 14) | Sample | 13 | 357036 | 2S111919 166802,357036, |
| 15) | Sample | 14 | 357037 | 2S111919 166802,357037, |
| 16) | Sample | 15 | 357038 | 2S111919 166802,357038, |
| 17) | Sample | 16 | 357041 | 2S111919 166802,357041, |
| 18) | Sample | 17 | 357032MS | 2S111919 166802,MSW357032, |
| 19) | Sample | 18 | 357032SD | 2S111919 166802,MSDW357032, |
| 20) | Sample | 19 | 2MBW02 | 2S111919 166805,MBW, |
| 21) | Sample | 20 | 2LCSW02 | 2S111919 166805,LCSW, |
| 22) | Sample | 21 | 2LCSDW02 | 2S111919 166805,LCSDW, |
| 23) | Sample | 22 | 358011 | 2S111919 166805,358011, |
| 24) | Sample | 23 | 358012 | 2S111919 166805,358012, |
| 25) | Sample | 24 | 358013 | 2S111919 166805,358013, |
| 26) | Sample | 25 | 358014 | 2S111919 166805,358014, |
| 27) | Sample | 26 | 358015 | 2S111919 166805,358015, |
| 28) | DFTPP | 1 | 2DFTP423 | 2DFTPP2 DFTPP TUNE SVMS8353 |
| 29) | Sample | 2 | 2CCV573 | 2S111919 CCV 20ug/mL SVMS8535 |
| 30) | Sample | 27 | 358016 | 2S111919 166805,358016, |
| 31) | Sample | 28 | 358019 | 2S111919 166805,358019, |
| 32) | Sample | 29 | 358022 | 2S111919 166805,358022, |
| 33) | Sample | 30 | 2MBW02 | 2S111919 166847,MBW, |
| 34) | Sample | 31 | 2MBTV02 | 2S111919 166847,MBTV, |
| 35) | Sample | 32 | 2MBTS02 | 2S111919 166847,MBTS, |
| 36) | Sample | 33 | 2LCSW02 | 2S111919 166847,LCSW, |
| 37) | Sample | 34 | 356218 | 2S111919 166847,356218, |
| 38) | Sample | 35 | 356624 | 2S111919 166847,356624, |
| 39) | Sample | 36 | 356626 | 2S111919 166847,356626, |
| 40) | Sample | 37 | 356624MS | 2S111919 166847,MSW356624, |
| 41) | Sample | 2 | 2CCV574 | 2S111919 CCV 20ug/mL SVMS8535 |

# SVOC 8270 1,4-Dioxane QSM 5 Analytical Run
# 166715 on 11/18/2019

Date Analyzed: _____ JJY Date Reviewed: _____

Date Entered: _____ 12/03/19 Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356214 | DPT-001 | 11/07/2019 0720 | | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| 149511 | 356215 | DPT-005 | 11/07/2019 0800 | | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| 149511 | 356217 | DPT-010 | 11/07/2019 0840 | | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| 149511 | 356222 | 47WW09 | 11/07/2019 1525 | | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| 149511 | 356223 | EB-003 | 11/08/2019 0700 | | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| 149511 | 356226 | DUP-006 | 11/08/2019 0830 | | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| 149511 | 356227 | 47WW25R-35 | 11/08/2019 1040 | Designated MS/MSD | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| 149511 | 356228 | 47WW25R-38 | 11/08/2019 1130 | | HDR, INC | LONGHORN | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | GW | 4 | |
| | 357990 | | | MBW | | | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | | | |
| | 357991 | | | LCSW | | | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | | | |
| | 357995 | 47WW25R-35 | 11/08/2019 1040 | MSW 356227 | | | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | | | |
| | 357996 | 47WW25R-35 | 11/08/2019 1040 | MSDW 357995 | | | SVOC 8270 1,4-Dioxane QSM 5 | 74516 | | | |

**12** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# PREP WORKSHEET
## on 11/18/2019

Prep Batch **74,516** Date Prepped: 11/14/2019 Prepped By AJZ

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 357990 | MBW | | SVOC 8270 1,4-Dioxane | LIQUID | 10.0 | | 0.50 | | |
| | 357991 | LCSW | | SVOC 8270 1,4-Dioxane | LIQUID | 10.0 | | 0.50 | | |
| 149511 | 356214 | | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 356215 | | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 356217 | | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 356222 | | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 356223 | | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 356226 | | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 356227 | sample designated for QC | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 356228 | | | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | 4 | |
| | 357995 | MSW | 356227 | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | | |
| | 357996 | MSDW | 357995 | SVOC 8270 1,4-Dioxane | GROUND WATER | 10.0 | | 0.50 | | |

Notes:_____

FORM#: FSV6,7-02
Rev. #: 1.0
Effective Date: 05/06/2014

# Method 8270-SV GC/MS Extraction Bench Sheet

(SOP Reference #'s SV006 & SV007

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

| | |
|---|---|
| **Prep Batch #:** | 74516 |
| **Prep Method:** | 3535 |
| **Analyst:** | AJZ |
| **Date:** | 11/14/2019 |
| **Start Time:** | 08:00 |
| **End Date:** | 11/18/2019 |
| **End Time:** | 17:45 |

Matrix: Water
Balance Used: NA
Ave MW temp(°C): NA

**Reagent Lots>>>**

| | |
|---|---|
| Sodium Sulfate | MISC0670 |
| Diatomaceous Earth | NA |
| Dionex Solution | NA |
| Methylene Chloride | DX422 |
| Acetone | NA |
| Sulfuric Acid | MISC0634 |
| Sodium Hydroxide | NA |

Initial Concentration By: NA
Date: NA
GPC Cleanup? (yes/no): NO
Date: NA
Final Concentration By: NA
Date: NA

| Microwave Cell # | Sample ID | Comments | | (Solids) Sample Weight (g) | (Liquids) Sample Volume (L) | Final Volume (ml) | ph Adj. <2 (Yes/No) | pH Adj. >12 Yes/No) |
|---|---|---|---|---|---|---|---|---|
| | 357990 | (MB) | | | 0.50 | 10.0 | Y | N |
| | 357991 | LCS | | | 0.50 | 10.0 | Y | N |
| | 356214 | | | | 0.50 | 10.0 | Y | N |
| | 356215 | | | | 0.50 | 10 | Y | N |
| | 356217 | | | | 0.50 | 10.0 | Y | N |
| | 356222 | | | | 0.50 | 10.0 | Y | N |
| | 356223 | | | | 0.50 | 10.0 | Y | N |
| | 356226 | | | | 0.50 | 10.0 | Y | N |
| | 356227 | | | | 0.50 | 10.0 | Y | N |
| | 356228 | | | | 0.50 | 10.0 | Y | N |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | SPE on Dionex Autotrace 280 | | | | | | |
| | | Cartridges: S4104 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | 357995 | (MS) | Parent Sample | | 0.50 | 10.0 | Y | N |
| | 357996 | (MSD) | 356227 | | 0.50 | 10.0 | Y | N |

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike & MSD=Matrix Spike Duplicate

MS/MSD/ LCS Spike Amount (ml): 1
Spike Concentration (ug/mL): 10
Spike Reference #: SVMS8522

Surrogate Spike Amount (ml): 1
Surrogate Spike Conc. (ug/mL): 10
Surrogate Spike Reference #: SVMS8421

Relinquished to: RPN
Date: 11/18/2019

Reviewed By: JJY
Date: 12/03/2019

CT Laboratories
Organic Laboratory Section

FORM #: FSV7-01
Rev. #: 1.0
Effective Date: 05/22/18

# 8270 SIM Analysis Data Review Checklist

| | | | |
|---|---|---|---|
| **Analytical Run #: 166715** | | **Independent Reviewer: JJY** | |
| **Sequence Date: 11/22/2019** | | **Date of Review: 11/25/2019** | |
| **Analyst/Data Interpreter: RPN** | | **Approval: Yes** | |

| Requirements: | Acceptance Criteria | Analyst Review Yes | Analyst Review No | Independent Review Yes | Independent Review No | Comments-explain each "no" response (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| **INITIAL CALIBRATION (ICAL)** | | | | | | |
| Was the initial calibration performed using a minimum of five standard concentration levels (six levels for non-linear calibration)? | Lowest standard at or near MRL | X | | X | | |
| Were the standards used for the ICAL uniquely identified? | standard number | X | | X | | |
| Was there a DFTPP standard analyzed prior to the ICAL? (see DFTPP section below for acceptable tune criteria) | | X | | X | | |
| Was an instrument blank analyzed prior to the ICAL? | | X | | X | | |
| Were linearity acceptance criteria met for all surrogates and analytes of interest? Note: QSM 5.1 does not allow non-linear (quadratic) calibration. | RSD≤ 20%, linear least squares regression $r^2$>0.990, non-linear $r^2$>0.990. | X | | X | | |
| **INITIAL CALIBRATION VERIFICATION (ICV)** | | | | | | |
| Was there a second source ICV for all target analytes analyzed after the initial calibration and prior to analysis of any samples? Note: If non-linear calibration is used, then it will be necessary to run ICVs at two different concentrations. | Second source | X | | X | | |
| Was each ICV uniquely identified? | standard number | X | | X | | |
| Was the recovery for each analyte within QC limits? | ± 20%, unless otherwise specified by project/client/program | X | | X | | |
| **CONTINUING CALIBRATION VERIFICATION (CCV)** | | | | | | |
| Were CCVs for target analytes analyzed at the beginning of the sequence and after every 12 hours? Note: QSM 5.0 and above also requires a CCV at the end of the analytical batch. | Concentration ≤ concentration of the mid-point ICAL standard | X | | X | | |
| Was each CCV uniquely identified? | standard number | X | | X | | |
| Was the recovery for each analyte within QC limits? | ± 20%, unless otherwise specified by project/client/program Ending CCV (if applicable) ± 50% | X | | X | | |

**Additional Comments:**

CT Laboratories
Organic Laboratory Section
**Analytical Run #: 166715**

FORM #: FSV7-01
Rev. #: 1.0
Effective Date: 05/22/18

## 8270 SIM Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments-explain each "no" response (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **DFTPP** | | | | | | |
| Was a DFTPP tune check ran at the beginning of every sequence and after every 12 hours? | | X | | X | | |
| Were the relative abundance criteria met? | | X | | X | | |
| Was the peak tailing acceptable for Pentachlorophenol and Benzidine? | Tailing Factor < 2 | X | | X | | |
| Was the breakdown of DDT to DDD and DDE acceptable? | ≤ 20% | X | | X | | |
| **BLANKS** | | | | | | |
| Was method blank (MB) analyzed prior to the analysis of samples? | | X | | X | | |
| Did MB results meet the required criteria? | QSM-the greater of the following: < 1/2 RL, < 1/10 amount in sample, or < 1/10 regulatory limit Non-QSM: < MDL, < 5% amount in sample, or < 5% regulatory limit | X | | X | | |
| Was a MB prepped and analyzed at a frequency of one per prep batch? | Batch ≤ 20 samples | X | | X | | |
| **LABORATORY CONTROL SAMPLE (LCS)** | | | | | | |
| Was an LCS analyzed at a frequency of one per prep batch? | Batch ≤ 20 samples | X | | X | | |
| Were the LCS recoveries within the acceptance criteria? | For QSM: Use Appendix C limits when available; All others, use in-house or client-specified limits | X | | X | | |
| **MATRIX SPIKES** | | | | | | |
| Was a matrix spike (MS) sample analyzed at a frequency one per prep batch? | Batch ≤ 20 samples | X | | X | | |
| Were MS recoveries in each MS within the acceptance criteria? | For QSM: Use Appendix C limits when available; All others, use in-house or client-specified limits | X | | X | | |

**Additional Comments:**

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CT Laboratories
Organic Laboratory Section

**Analytical Run #: 166715**

**8270 SIM Analysis Data Review Checklist**

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments-explain each "no" response (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE** | | | | | | |
| Were duplicate spikes (MSD/LCSD) analyzed at a frequency one per prep batch? | Batch ≤ 20 samples | x | | x | | |
| Were MSD or LCSD recoveries within the acceptance criteria? | QSM Use Appendix C limits when available, else use in-house or client-specified limits | x | | x | | |
| Is the relative percent difference (RPD) for each analyte between the MS/MSD or LCS/LCSD within the acceptance criteria? | QSM 4.2 ≤ 30%; QSM 5.0 ≤ 20%; QSM 5.1 ≤ 40%; Non-QSM use in-house or client-specified limits | x | | x | | |
| **SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)** | | | | | | |
| Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | x | | x | | |
| Were the appropriate surrogates used? | PAH vs. non-PAH | x | | x | | |
| For QSM 5.1 PAH analysis, was the minimum RRF met for each surrogate? | RRF ≥ 0.40 | na | | na | | |
| Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria? | QSM 5.1 PAH 50-150%; Other QSM use Appendix C limits; else use in-house or client-specified limits | | x | | x | See Below |
| Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? | | x | | x | | |
| Were all samples extracted within holding times and analyzed within hold time? | Analysis within 40 days of extraction | x | | x | | |
| Did the samples require additional cleanup steps? (i.e. GPC or sulfur cleanup) | GPC, Sulfur cleanup | | x | | x | |
| **RECORDS AND REPORTING** | | | | | | |
| Have all data files and relative QC forms been pdf'd? | | x | | x | | |
| Do all chromatograms contain analysis date, time, and analyst initials? | | x | | x | | |
| Are results exceding acceptance criteria qualified and recorded in the NCR? | | x | | x | | |
| Do the raw reports match the LIMS data? | | x | | x | | |
| Is the ICAL method referenced on the raw data? | | x | | x | | |

**Additional Comments:**

Surrogate 1,4-dioxane-d8 had contamination in samples. The primary ion for the surrogate was changed from 96 to 64 and requanted. Low recovery of surrogate in samples 356226 and 356228. "S".

Sequence Name: C:\INSTARCH\SEQUENCE\2S112119.s
Comment: 8270 SIM 14 DIOXANE
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S112119\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | | Sample Name/Misc Info |
|---|---|---|---|
| 1) | Sample | 100 | 2PRIME01 2DIOXN07 PRIME 10 ug/ml |
| 2) | DFTPP | 1 | 2DFTP424 2DFTDIOX DFTPP TUNE SVMS8353 |
| 3) | Sample | 2 | 2IB01 2DIOXN07 Instrument blank |
| 4) | Sample | 99 | 2IB02 2DIOXN07 Instrument blank |
| 5) | Sample | 2 | 2ICAL1 2DIOXN07 ICAL 0.1 ug/ml SVMS8543 |
| 6) | Sample | 3 | 2ICAL2 2DIOXN07 ICAL 0.2 ug/ml SVMS8544 |
| 7) | Sample | 4 | 2ICAL3 2DIOXN07 ICAL 0.5 ug/ml SVMS8545 |
| 8) | Sample | 5 | 2ICAL4 2DIOXN07 ICAL 1.0 ug/ml SVMS8546 |
| 9) | Sample | 6 | 2ICAL5 2DIOXN07 ICAL 1.5 ug/ml SVMS8547 |
| 10) | Sample | 7 | 2ICAL6 2DIOXN07 ICAL 2.0 ug/ml SVMS8548 |
| 11) | Sample | 8 | 2ICAL7 2DIOXN07 ICAL 2.5 ug/ml SVMS8549 |
| 12) | Sample | 9 | 2ICV1 2DIOXN07 ICV 1.0 ug/ml SVMS8550 |
| 13) | Sample | 10 | 2ICV2 2DIOXN07 ICV 2.0 ug/ml SVMS8551 |
| 14) | Sample | 99 | 2IB03 2DIOXN07 Instrument blank |
| 15) | DFTPP | 1 | 2DFTP425 2DFTDIOX DFTPP TUNE SVMS8353 |
| 16) | DFTPP | 1 | 2DFTP426 2DFTDIOX DFTPP TUNE SVMS8353 |
| 17) | Sample | 3 | 2ICAL2R 2DIOXN07 ICAL 0.2 ug/ml SVMS8544 |
| 18) | Sample | 4 | 2ICAL3R 2DIOXN07 ICAL 0.5 ug/ml SVMS8545 |
| 19) | Sample | 9 | 2ICV1R 2DIOXN07 ICV 1.0 ug/ml SVMS8550 |

Sequence Name: C:\INSTARCH\SEQUENCE\2S112219.s
Comment: 8270 SIM 14 DIOXANE
Operator: RPN
Data Path: C:\INSTARCH\DATA\2S112219\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

JJY
12/03/19

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

| Line | | Sample Name/Misc Info | | |
|---|---|---|---|---|
| 1) | DFTPP | 1 | 2DFTP427 | 2DFTDIOX DFTPP TUNE SVMS8353 |
| 2) | Sample | 2 | 2CCV575 | 2DIOXN07 ICAL 1.0 ug/ml SVMS8552 |
| 3) | Sample | 3 | 2MBW01 | 2DIOXN07 166715,MBW, |
| 4) | Sample | 4 | 2LCSW01 | 2DIOXN07 166715,LCSW, |
| 5) | Sample | 5 | 356214 | 2DIOXN07 166715,356214, |
| 6) | Sample | 6 | 356215 | 2DIOXN07 166715,356215, |
| 7) | Sample | 7 | 356217 | 2DIOXN07 166715,356217, |
| 8) | Sample | 8 | 356222 | 2DIOXN07 166715,356222, |
| 9) | Sample | 9 | 356223 | 2DIOXN07 166715,356223, |
| 10) | Sample | 10 | 356226 | 2DIOXN07 166715,356226, |
| 11) | Sample | 11 | 356227 | 2DIOXN07 166715,356227, |
| 12) | Sample | 12 | 356228 | 2DIOXN07 166715,356228, |
| 13) | Sample | 13 | 356227MS | 2DIOXN07 166715,MSW356227, |
| 14) | Sample | 14 | 356227SD | 2DIOXN07 166715,MSDW356227, |
| 15) | DFTPP | 1 | 2DFTP428 | 2DFTDIOX DFTPP TUNE SVMS8353 |
| 16) | Sample | 2 | 2CCV576 | 2DIOXN07 ICAL 1.0 ug/ml SVMS8552 |
| 17) | Sample | 15 | 2MBW02 | 2DIOXN07 166941,MBW, |
| 18) | Sample | 16 | 2LCSW02 | 2DIOXN07 166941,LCSW, |
| 19) | Sample | 17 | 2LCSDW02 | 2DIOXN07 166941,LCSDW, |
| 20) | Sample | 18 | 358578 | 2DIOXN07 166941,358578, |
| 21) | Sample | 19 | 358579 | 2DIOXN07 166941,358579, |
| 22) | Sample | 20 | 2MBW03 | 2DIOXN07 166939,MBW, |
| 23) | Sample | 21 | 2LCSW04 | 2DIOXN07 166939,LCSW, |
| 24) | Sample | 22 | 358555 | 2DIOXN07 166939,358555 |
| 25) | Sample | 23 | 358557 | 2DIOXN07 166939,358557 |
| 26) | Sample | 24 | 358558 | 2DIOXN07 166939,358558 |
| 27) | Sample | 25 | 358559 | 2DIOXN07 166939,358559 |
| 28) | Sample | 26 | 358560 | 2DIOXN07 166939,358560 |
| 29) | Sample | 27 | 358561 | 2DIOXN07 166939,358561 |
| 30) | Sample | 28 | 358562 | 2DIOXN07 166939,358562 |
| 31) | Sample | 29 | 358564 | 2DIOXN07 166939,358564 |
| 32) | Sample | 30 | 358565 | 2DIOXN07 166939,358565 |
| 33) | Sample | 31 | 358566 | 2DIOXN07 166939,358566 |
| 34) | Sample | 32 | 358567 | 2DIOXN07 166939,358567 |
| 35) | Sample | 33 | 358568 | 2DIOXN07 166939,358568 |
| 36) | Sample | 34 | 358569 | 2DIOXN07 166939,358569 |
| 37) | Sample | 35 | 358570 | 2DIOXN07 166939,358570 |
| 38) | Sample | 36 | 358571 | 2DIOXN07 166939,358571 |
| 39) | Sample | 37 | 358572 | 2DIOXN07 166939,358572 |
| 40) | Sample | 38 | 358574 | 2DIOXN07 166939,358574 |
| 41) | Sample | 39 | 358575 | 2DIOXN07 166939,358575 |
| 42) | Sample | 40 | 358576 | 2DIOXN07 166939,358576 |
| 43) | Sample | 41 | 358577 | 2DIOXN07 166939,358577 |

Sequence Name: C:\INSTARCH\SEQUENCE\2S112219.s

| | Line | Type | Vial | DataFile | Method | Sample Name |
|---|---|---|---|---|---|---|
| 44) | | Sample | 42 | 358572MS | 2DIOXN07 | 166939,MSW358572 |
| 45) | | Sample | 43 | 358572SD | 2DIOXN07 | 166939,MSDW358573 |
| 46) | | Sample | 2 | 2CCV577 | 2DIOXN07 | ICAL 1.0 ug/ml SVMS8552 |

JJY
12/03/19

**SVOC Logbook-02**
**Semi-Volatiles Prep Logbook**
*Logbook Created: 04/10/18*

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Page Title: 052019

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8353 | DFTPP TUNING MIX | Methylene chloride ChemPure lot DV482-US | JJY | 05/20/2019 | 11/20/2019 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4076 | 1000 | ug/ml | 500 | 10 | 50 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8354 | DFTPP TUNING MIX | Methylene chloride ChemPure lot DV482-US | JJY | 05/20/2019 | 11/20/2019 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4076 | 1000 | ug/ml | 250 | 10 | 25 |

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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8421 | 8270 1,4-Dioxane Surrogate | Methanol ChemPure DT743 | RPN | 08/12/19 | 02/12/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4060 | 10000 | ug/mL | 50 | 50 | 10 |
| | | | | | |

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SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
*Issued 08/07/2019*

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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8521 | 8270 Spike (No Addls) | Acetone ChemPure DU033-US | RPN | 11/14/19 | 05/14/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4064B | 2000 | ug/mL | 100 | 10 | 20 |
| S4155B | 1000 | ug/mL | 200 | 10 | 20 |
| S4081 | 2000 | ug/ml | 100 | 10 | 20 |
| | | | | | |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8522 | 8270 1,4-Dioxane Spike | Methanol ChemPure DR840 | RPN | 11/14/19 | 05/14/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4059 | 1000 | ug/mL | 250 | 50 | 10 |
| | | | | | |

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SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
*Issued 08/07/2019*

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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8523 | 8270 Surrogates standard | Acetone ChemPure DV033-US | RPN | 11/18/19 | 05/18/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4083D | 5000 | µg/mL | 1000 | 250 | 40 |
| S4084D | 10000 | µg/mL | 1000 | 250 | 20 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8524 | 8270 ICAL Intermediate Standard | Methylene Chloride ChemPure DV482-US | RPN | 11/18/19 | 05/18/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4155B | 1000 | µg/mL | 1000 | 10 | 100 |
| S4088C | 2000 | µg/mL | 500 | 10 | 100 |
| S4165A | 2000 | µg/mL | 500 | 10 | 100 |
| S4166A | 5000 | µg/mL | 200 | 10 | 100 |
| S4167A | 10000 | µg/mL | 100 | 10 | 100 |
| | | | | | |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8525 | 8270 ICV Intermediate Standard | Methylene Chloride ChemPure DV482-US | RPN | 11/18/19 | 05/18/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4081 | 2000 | µg/mL | 250 | 5 | 100 |
| S4178A | 2000 | µg/mL | 250 | 5 | 100 |
| S4166A | 5000 | µg/mL | 100 | 5 | 100 |

| | | | | | |
|---|---|---|---|---|---|
| S4166A | 5000 | µg/mL | 100 | 5 | 100 |
| S4167A | 10000 | µg/mL | 50 | 5 | 100 |
| | | | | | |

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SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
*Issued 08/07/2019*
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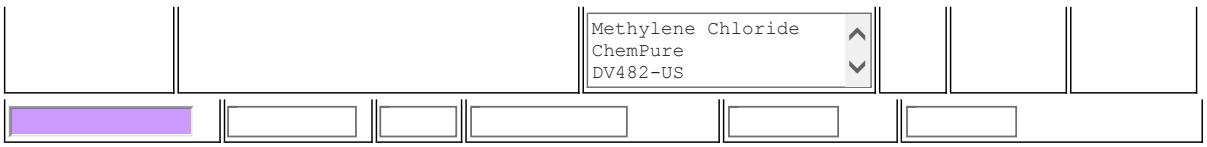
| | Initial Calibration | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| | 8270 ICAL Standards | Methylene Chloride ChemPure DV482-US | RPN | 11/19/19 | 05/19/20 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| SVMS8526 | ICAL 1 | SVMS8524 | 100 | µg/mL | 0.005 | 0.5 | 1 |
| SVMS8527 | ICAL 2 | SVMS8524 | 100 | µg/mL | 0.025 | 0.5 | 5 |
| SVMS8528 | ICAL 3 | SVMS8524 | 100 | µg/mL | 0.050 | 0.5 | 10 |
| SVMS8529 | ICAL 4 | SVMS8524 | 100 | µg/mL | 0.100 | 0.5 | 20 |
| SVMS8530 | ICAL 5 | SVMS8524 | 100 | µg/mL | 0.150 | 0.5 | 30 |
| SVMS8531 | ICAL 6 | SVMS8524 | 100 | µg/mL | 0.200 | 0.5 | 40 |
| SVMS8532 | ICAL 7 | SVMS8524 | 100 | µg/mL | 0.250 | 0.5 | 50 |
| SVMS8533 | ICV1 | SVMS8525 | 100 | µg/mL | 0.100 | 0.5 | 20 |
| SVMS8534 | ICV2 | SVMS8525 | 100 | µg/mL | 0.200 | 0.5 | 40 |
| SVMS8535 | CCV | SVMS8524 | 100 | µg/mL | 0.100 | 0.5 | 20 |
| SVMS | | SVMS | | | | | |
| SVMS | | SVMS | | | | | |
| SVMS | | SVMS | | | | | |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8536 | SIM IS 100µg/mL | Methylene Chloride ChemPure DV482-US | RPN | 11/19/19 | 05/19/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4170A | 2000 | µg/mL | 50 | 1 | 100 |
| | | | | | |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8537 | SIM PAH IS 40µg/mL | | RPN | 11/19/19 | 05/19/20 |

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CT Laboratories, LLC

SVOC Logbook_03
Semi-Volatiles Standard Prep Logbook
*Issued 08/07/2019*
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8538 | DFTPP Tuning Mix | Methylene Chloride ChemPure DV482-US | RPN | 11/20/19 | 05/20/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4168 | 1000 | µg/mL | 500 | 10 | 50 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8539 | DFTPP Tuning Mix | Methylene Chloride ChemPure DV482-US | RPN | 11/20/19 | 05/20/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4076 | 1000 | µg/mL | 250 | 10 | 25 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8540 | 8270 1,4-Dioxane-d8 Surrogate | Methylene Chloride ChemPure DV482-US | RPN | 11/20/19 | 05/20/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4060 | 10000 | µg/mL | 50 | 50 | 10 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8541 | 8270 1,4-dioxane I CAL Stock | Methylene Chloride ChemPure DV482-US | RPN | 11/21/19 | 05/01/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4059 | 1000 | µg/mL | 100 | 10 | 10 |
| S4060 | 10000 | µg/mL | 10 | 10 | 10 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8542 | 8270 1,4-dioxane ICV Stock | Methylene Chloride ChemPure DV482-US | RPN | 11/21/19 | 05/01/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4058 | 2000 | µg/mL | 50 | 10 | 10 |
| S4060 | 10000 | µg/mL | 10 | 10 | 10 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| SVMS8543 | ICAL 1 | SVMS8541 | 10 | µg/mL | 0.010 | 1 | 0.1 |
| SVMS8544 | ICAL 2 | SVMS8541 | 10 | µg/mL | 0.020 | 1 | 0.2 |
| SVMS8545 | ICAL 3 | SVMS8541 | 10 | µg/mL | 0.050 | 1 | 0.5 |
| SVMS8546 | ICAL 4 | SVMS8541 | 10 | µg/mL | 0.100 | 1 | 1.0 |
| SVMS8547 | ICAL 5 | SVMS8541 | 10 | µg/mL | 0.150 | 1 | 1.5 |
| SVMS8548 | ICAL 6 | SVMS8541 | 10 | µg/mL | 0.200 | 1 | 2.0 |
| SVMS8549 | ICAL 7 | SVMS8541 | 10 | µg/mL | 0.250 | 1 | 2.5 |
| SVMS8550 | ICV1 | SVMS8542 | 10 | µg/mL | 0.100 | 1 | 1.0 |
| SVMS8551 | ICV2 | SVMS8542 | 10 | µg/mL | 0.200 | 1 | 2.0 |
| SVMS8552 | CCV | SVMS8541 | 10 | µg/mL | 0.100 | 1 | 1.0 |
| SVMS | | SVMS | | | | | |
| SVMS | | SVMS | | | | | |
| SVMS | | SVMS | | | | | |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| SVMS8553 | 8270 SIM Internal Standards | Methylene Chloride ChemPure DV482-US | RPN | 11/21/19 | 05/21/20 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ul) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4170B | 2000 | µg/mL | 50 | 1 | 100 |
| | | | | | |

# PESTICIDE/HERBICIDE
# QUALITY CONTROL SUMMARY
# DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

1D-1

***PESTICIDE ORGANICS ANALYSIS***

Sample Description: **46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | TCLP | SDG No.: | 149511 |
| Sample wt/vol: | 0.10 (g/L) | CTL Sample ID: | 356218 |
| % Solids: | | Date Received: | 11/11/2019 |
| Conc. Extract Vol: | 10 (mL) | Date/Time Prepared: | 01/01/1900 / 08:00 |
| Analytical Method: | EPA 8151A | Analytical Prep Batch # | 74634 |
| Analytical Run #: | 166947 | Dilution Factor: | 1.00 |
| Date & Time Analyzed: | 11/22/2019 / 17:35 | | |
| Cleanup Date/Time/Type: | , | , | , |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | 11/16/2019 / 09:10 |
| ICAL Calibration #: | 110719hrbic | Concentration Units: | mg/L |

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 93-72-1 | 2,4,5-TP | 0.00060 | U | 0.00021 | 0.00060 | 0.0012 | 0.0012 |
| 94-75-7 | 2,4-D | 0.0030 | U | 0.0015 | 0.0030 | 0.0060 | 0.0060 |

CT LABORATORIES
delivering more than data from your environmental analyses

1D-1

***PESTICIDE ORGANICS ANALYSIS***

Sample Description: **46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | TCLP | SDG No.: | 149511 |
| Sample wt/vol: | 0.10 (g/L) | CTL Sample ID: | 356218 |
| % Solids: | | Date Received: | 11/11/2019 |
| Conc. Extract Vol: | 10 (mL) | Date/Time Prepared: | 11/20/2019 / 09:00 |
| Analytical Method: | EPA 8081B | Analytical Prep Batch # | 74635 |
| Analytical Run #: | 166876 | Dilution Factor: | 1.00 |
| Date & Time Analyzed: | 11/21/2019 / 22:45 | | |
| Cleanup Date/Time/Type: | , 11/21/2019 16:00 (Sulfur) , | | , |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | 11/16/2019 / 09:10 |
| ICAL Calibration #: | 111419pstic | Concentration Units: | mg/L |

| CAS NO. | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | alpha-Chlordane | 0.00010 | U | 0.000090 | 0.00010 | 0.00040 | 0.00040 |
| 12789-03-6 | Chlordane (Technical) | 0.0030 | U | 0.0010 | 0.0030 | 0.0060 | 0.0060 |
| 72-20-8 | Endrin | 0.00010 | U Q | 0.000060 | 0.00010 | 0.00024 | 0.00024 |
| 5103-74-2 | gamma-Chlordane | 0.00010 | U | 0.000070 | 0.00010 | 0.00024 | 0.00024 |
| 76-44-8 | Heptachlor | 0.00010 | U | 0.000060 | 0.00010 | 0.00024 | 0.00024 |
| 1024-57-3 | Heptachlor epoxide | 0.00010 | U | 0.000070 | 0.00010 | 0.00024 | 0.00024 |
| 58-89-9 | Lindane | 0.00010 | U | 0.000070 | 0.00010 | 0.00024 | 0.00024 |
| 72-43-5 | Methoxychlor | 0.00010 | U | 0.000060 | 0.00010 | 0.00040 | 0.00040 |
| 8001-35-2 | Toxaphene | 0.0030 | U | 0.0018 | 0.0030 | 0.0060 | 0.0060 |

CT LABORATORIES
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1D-3

Sample Description: **METHOD BLANK**

***PESTICIDE ORGANICS ANALYSIS (MB)***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | | SDG No.: | 149511 |
| Sample wt/vol: | 0.10 (g/L) | CTL Sample ID: | 360319 |
| % Solids: | | Date Received: | 11/11/2019 |
| Conc. Extract Vol: | 10 (mL) | Date/Time Prepared: | 01/01/1900 / 08:00 |
| Analytical Method: | EPA 8151A | Analytical Prep Batch # | 74634 |
| Analytical Run #: | 166947 | Dilution Factor: | 1.00 |
| Cleanup Date/Time/Type: | | | |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | 11/16/2019 / 09:10 |
| ICAL Calibration #: | 110719hrbic | Concentration Units: | mg/L |

| CAS NO. | Analyte | Analysis Date/Time | | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|---|
| 93-72-1 | 2,4,5-TP | 11/22/2019 | 17:01 | 0.00021 | U | 0.00021 | 0.00120 | ***0.00060*** |
| 94-75-7 | 2,4-D | 11/22/2019 | 17:01 | 0.0015 | U | 0.0015 | 0.0060 | ***0.0030*** |

CT LABORATORIES
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1D-3

Sample Description: **METHOD BLANK**

***PESTICIDE ORGANICS ANALYSIS (MB)***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | | SDG No.: | 149511 |
| Sample wt/vol: | 0.10 (g/L) | CTL Sample ID: | 360323 |
| % Solids: | | Date Received: | 11/11/2019 |
| Conc. Extract Vol: | 10 (mL) | Date/Time Prepared: | 11/20/2019 / 09:00 |
| Analytical Method: | EPA 8081B | Analytical Prep Batch # | 74635 |
| Analytical Run #: | 166876 | Dilution Factor: | 1.00 |
| Cleanup Date/Time/Type: | , 11/21/2019 16:00 (Sulfur) , | | , |
| TCLP / SPLP / MLP or ASTM Procedure Extraction Date (*if applicable*): | | | 11/16/2019 / 09:10 |
| ICAL Calibration #: | 111419pstic | Concentration Units: | mg/L |

| CAS NO. | Analyte | Analysis Date/Time | Concentration | Qualifiers | DL/LOD | RL | *Control Limit* |
|---|---|---|---|---|---|---|---|
| 5103-71-9 | alpha-Chlordane | 11/21/2019 19:13 | 0.000009 | U | 0.000009 | 0.000040 | ***0.000020*** |
| 12789-03-6 | Chlordane (Technical) | 11/21/2019 19:13 | 0.000102 | U | 0.000102 | 0.00050 | ***0.00025*** |
| 72-20-8 | Endrin | 11/21/2019 19:13 | 0.000006 | U | 0.000006 | 0.000024 | ***0.000012*** |
| 5103-74-2 | gamma-Chlordane | 11/21/2019 19:13 | 0.000007 | U | 0.000007 | 0.000040 | ***0.000020*** |
| 76-44-8 | Heptachlor | 11/21/2019 19:13 | 0.000006 | U | 0.000006 | 0.000024 | ***0.000012*** |
| 1024-57-3 | Heptachlor epoxide | 11/21/2019 19:13 | 0.000007 | U | 0.000007 | 0.000024 | ***0.000012*** |
| 58-89-9 | Lindane | 11/21/2019 19:13 | 0.000007 | U | 0.000007 | 0.000024 | ***0.000012*** |
| 72-43-5 | Methoxychlor | 11/21/2019 19:13 | 0.000006 | U | 0.000006 | 0.000040 | ***0.000020*** |
| 8001-35-2 | Toxaphene | 11/21/2019 19:13 | 0.000176 | U | 0.000176 | 0.00050 | ***0.00025*** |

CT LABORATORIES
delivering more than data from your environmental analyses

**2E-1**

***WATER PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8081B | SDG: 149511

Analytical Run #: 166876 | ICAL Calibration #: 111419pstic

GC Column(1): Restek RTX ID: 0.32 (mm) | GC Column(2): Restek RTX C2 ID: 0.32 (mm)

| CTLab # | 356218 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| SURR:2,4,5,6-CL4-m-xylene | 100 | 96 | 25 | 140 | |
| SURR:Decachlorobiphenyl | 100 | 90 | 30 | 135 | |

| CTLab # | 356624 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| SURR:2,4,5,6-CL4-m-xylene | 100 | 35 | 25 | 140 | |
| SURR:Decachlorobiphenyl | 100 | 25 | 30 | 135 | *FAIL* |

| CTLab # | 356626 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| SURR:2,4,5,6-CL4-m-xylene | 100 | 88 | 25 | 140 | |
| SURR:Decachlorobiphenyl | 100 | 95 | 30 | 135 | |

| CTLab # | 360323 | Sample Type: | Method Blank | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| SURR:2,4,5,6-CL4-m-xylene | 100 | 84.6 | 25 | 140 | |
| SURR:Decachlorobiphenyl | 100 | 52.4 | 30 | 135 | |

| CTLab # | 360324 | Sample Type: | Lab Control Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| SURR:2,4,5,6-CL4-m-xylene | 100 | 90.5 | 25 | 140 | |
| SURR:Decachlorobiphenyl | 100 | 63.5 | 30 | 135 | |

| CTLab # | 360326 | Sample Type: | Matrix Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| SURR:2,4,5,6-CL4-m-xylene | 100 | 47.2 | 25 | 140 | |
| SURR:Decachlorobiphenyl | 100 | 19.1 | 30 | 135 | *FAIL* |

CT LABORATORIES
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**2E-1**

***WATER PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY***

Lab Name: CT Laboratories | Contract: HDR, INC-LONGHORN

Analytical Method: EPA 8151A | SDG: 149511

Analytical Run #: 166947 | ICAL Calibration #: 110719hrbic

GC Column(1): Restek RTX ID: 0.32 (mm) | GC Column(2): Restek RTX C2 ID: 0.32 (mm)

| CTLab # | 356218 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4-DCAA | 100 | 90 | 32 | 138 | |

| CTLab # | 356624 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4-DCAA | 100 | 88 | 32 | 138 | |

| CTLab # | 356626 | | | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4-DCAA | 100 | 105 | 32 | 138 | |

| CTLab # | 360319 | Sample Type: | Method Blank | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4-DCAA | | 89.0 | 32 | 138 | |

| CTLab # | 360320 | Sample Type: | Lab Control Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4-DCAA | 100 | 87.7 | 32 | 138 | |

| CTLab # | 360327 | Sample Type: | Matrix Spike | | |
|---|---|---|---|---|---|
| **Surrogate** | **Spike Amount** | **% Recovery** | **Lower Limit** | **Upper Limit** | **Qualifier** |
| Surr: 2,4-DCAA | 100 | 93.5 | 32 | 138 | |

CT LABORATORIES
delivering more than data from your environmental analyses

**3E**

Sample Description

**LCS**

***WATER PESTICIDE LAB CONTROL SAMPLE***

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Sample No.: 360320
SDG No.: 149511
Analytical Method: EPA 8151A
Concentration Units: mg/L

Sample No.: 360320
Parent Sample No.: 0
Analytical Prep Batch #: 74634
Analytical Preparation Date/Time: 01/01/1900 08:00
Analytical Run #: 166947
ICAL Calibration #: 110719hrbic

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| 2,4,5-TP | 11/22/2019 | 17:18 | 51-134 | 0.00950 | | 0.0100 | 95 |
| 2,4-D | 11/22/2019 | 17:18 | 45-152 | 0.0463 | | 0.0500 | 93 |

Spike Recovery: 0 out of 2 outside limits

CT LABORATORIES
delivering more than data from your environmental analyses

**3E**

Sample Description

**LCS**

***WATER PESTICIDE LAB CONTROL SAMPLE***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

Sample No.: 360324  SDG No.: 149511

Analytical Method: EPA 8081B  Concentration Units: mg/L

Sample No.: 360324  Parent Sample No.: 0

Analytical Prep Batch #: 74635  Analytical Preparation Date/Time: 11/20/2019 09:00

Analytical Run #: 166876  ICAL Calibration #: 111419pstic

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R | |
|---|---|---|---|---|---|---|---|---|
| alpha-Chlordane | 11/21/2019 | 19:29 | 65-125 | 0.00394 | | 0.00400 | 98 | |
| Endrin | 11/21/2019 | 19:29 | 55-135 | 0.00565 | | 0.00400 | 141 | *FAIL* |
| gamma-Chlordane | 11/21/2019 | 19:29 | 60-125 | 0.00403 | | 0.00400 | 101 | |
| Heptachlor | 11/21/2019 | 19:29 | 40-130 | 0.00389 | | 0.00400 | 97 | |
| Heptachlor epoxide | 11/21/2019 | 19:29 | 60-130 | 0.00395 | | 0.00400 | 99 | |
| Lindane | 11/21/2019 | 19:29 | 25-135 | 0.00391 | | 0.00400 | 98 | |
| Methoxychlor | 11/21/2019 | 19:29 | 55-150 | 0.00514 | | 0.00400 | 128 | |

| Analyte | Analysis Date/Time | | Control Limit (%R) | Spike Result | Parent Result | Spike Amount | %R |
|---|---|---|---|---|---|---|---|
| Chlordane (Technical) | 11/21/2019 | 19:46 | 50-150 | 0.0229 | | 0.0250 | 92 |
| Toxaphene | 11/21/2019 | 19:46 | 50-150 | 0.0234 | | 0.0250 | 94 |

Spike Recovery: 1 out of 9 outside limits

**CT Laboratories**

**4C-1**

***PESTICIDE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Sample ID: | 360319 | SDG No.: | 149511 |
| Matrix: | LIQUID | Date Extracted: | 01/01/1900 |
| Date Analyzed: | 11/22/2019 | Time Analyzed: | 17:01 |
| Analytical Method: | EPA 8151A | Extraction Method: | METHOD |
| Analytical Run #: | 166947 | Extraction Batch #: | 74634 |
| | | ICAL Calibration #: | 110719hrbic |

***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION REFERENCE # |
|---|---|---|---|---|
| 1 | 46ADPT-TCLP | 356218 | 11/22/2019 17:35 | 110719hrbic |
| 2 | MBW | 360319 | 11/22/2019 17:01 | 110719hrbic |
| 3 | LCSW | 360320 | 11/22/2019 17:18 | 110719hrbic |
| 4 | ACADM-WW-001MSW | 360327 | 11/22/2019 18:26 | 110719hrbic |

**CT Laboratories**

**4C-1**

***PESTICIDE METHOD BLANK SUMMARY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Sample ID: | 360323 | SDG No.: | 149511 |
| Matrix: | LIQUID | Date Extracted: | 11/20/2019 |
| Date Analyzed: | 11/21/2019 | Time Analyzed: | 19:13 |
| Analytical Method: | EPA 8081B | Extraction Method: | SW3510 |
| Analytical Run #: | 166876 | Extraction Batch #: | 74635 |
| | | ICAL Calibration #: | 111419pstic |

***THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:***

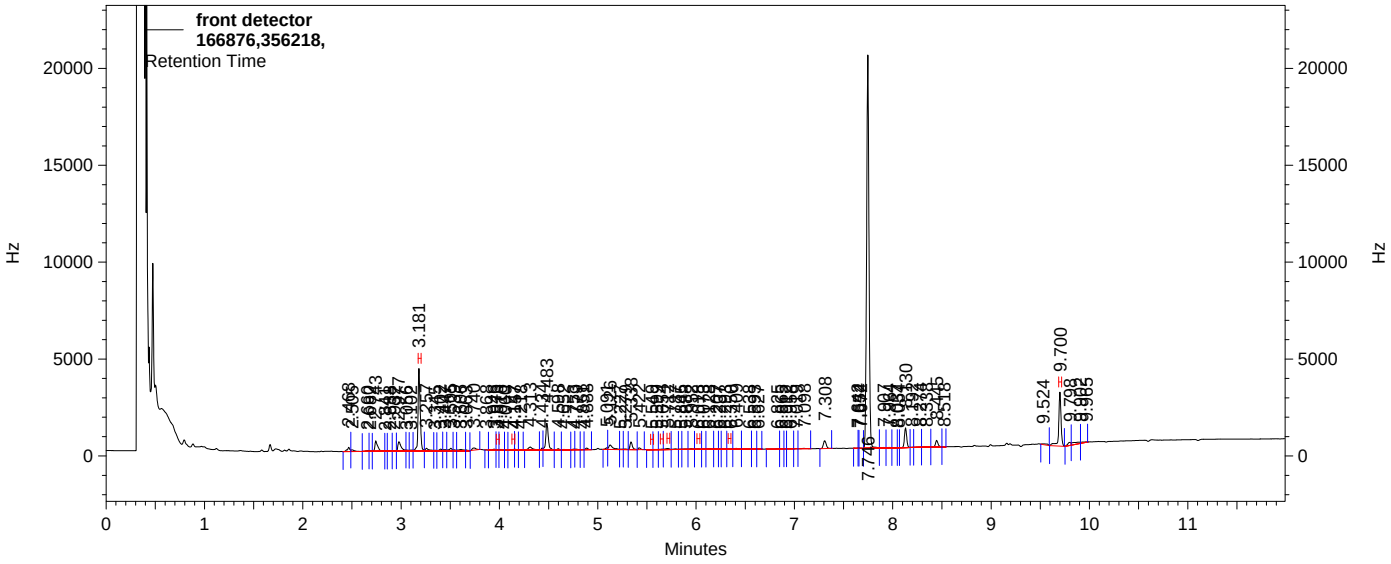
| SEQUENCE | SAMPLE DESCRIPTION | SAMPLE ID | DATE/TIME ANALYZED | CALIBRATION REFERENCE # |
|---|---|---|---|---|
| 1 | 46ADPT-TCLP | 356218 | 11/21/2019 22:45 | 111419pstic |
| 2 | MBW | 360323 | 11/21/2019 19:13 | 111419pstic |
| 3 | LCSW | 360324 | 11/21/2019 19:29 | 111419pstic |
| 4 | LCSW | 360324 | 11/21/2019 19:46 | 111419pstic |
| 5 | ACADM-WW-001MSW | 360326 | 11/21/2019 21:24 | 111419pstic |

# PESTICIDE/HERBICIDE
# SAMPLE DATA
# DOCUMENTS

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\022.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,356218,
**Acquired:** 11/21/2019 22:45:22
**Printed:** 11/22/2019 10:13:30

**Data Summary: {Data Description}**



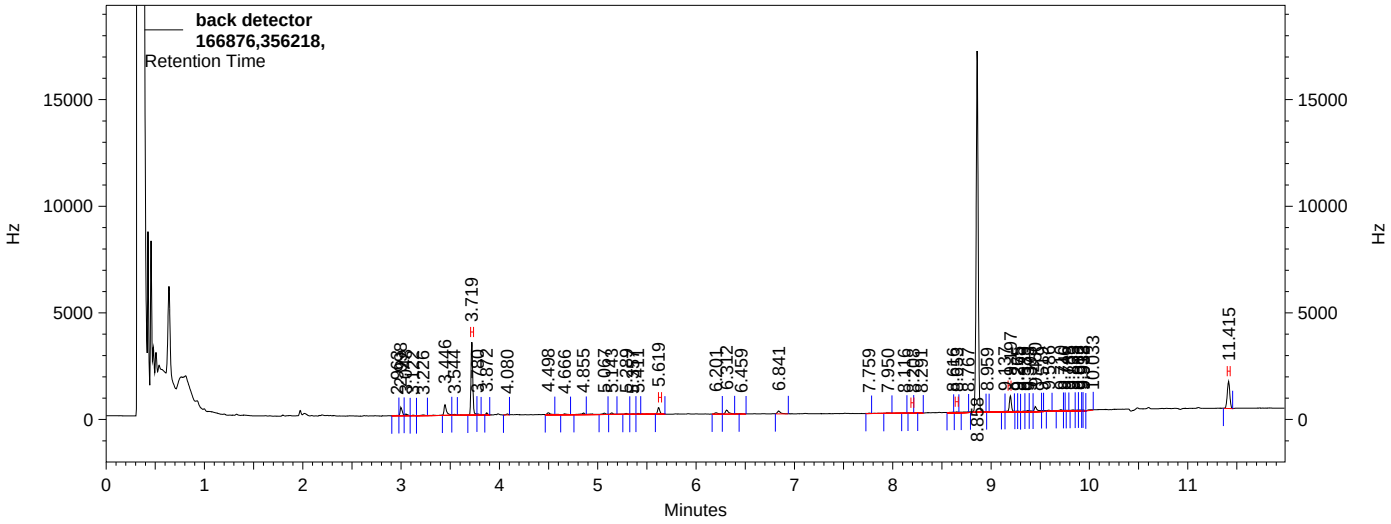

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.181 | 49927701 | 95.6503 |
| ALPHABHC | | | 0.0000 BDL |
| LINDANE | | | 0.0000 BDL |
| BETABHC | 3.973 | 283618 | 0.0001 |
| DELTABHC | 4.147 | 404062 | 0.0001 |
| HEPTACHLOR | | | 0.0000 BDL |
| ALDRIN | | | 0.0000 BDL |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | 5.549 | 72471 | 0.0000 |
| 44DDE | 5.654 | 447236 | 0.0003 |
| ENDOI | 5.712 | 1348308 | 0.0003 |
| DIELDRIN | 6.018 | 776790 | 0.0002 |
| ENDRIN | 6.350 | 680107 | 0.0003 |
| 44DDD | | | 0.0000 BDL |
| ENDOII | | | 0.0000 BDL |
| 44DDT | | | 0.0000 BDL |
| ENDRINALDEH | | | 0.0000 BDL |
| METHOXYCL | | | 0.0000 BDL |
| ENDOSULFATE | | | 0.0000 BDL |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 9.700 | 35018378 | 90.1753 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\022.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,356218,
**Acquired:** 11/21/2019 22:45:22
**Printed:** 11/22/2019 10:13:30

**Data Summary: {Data Description}**



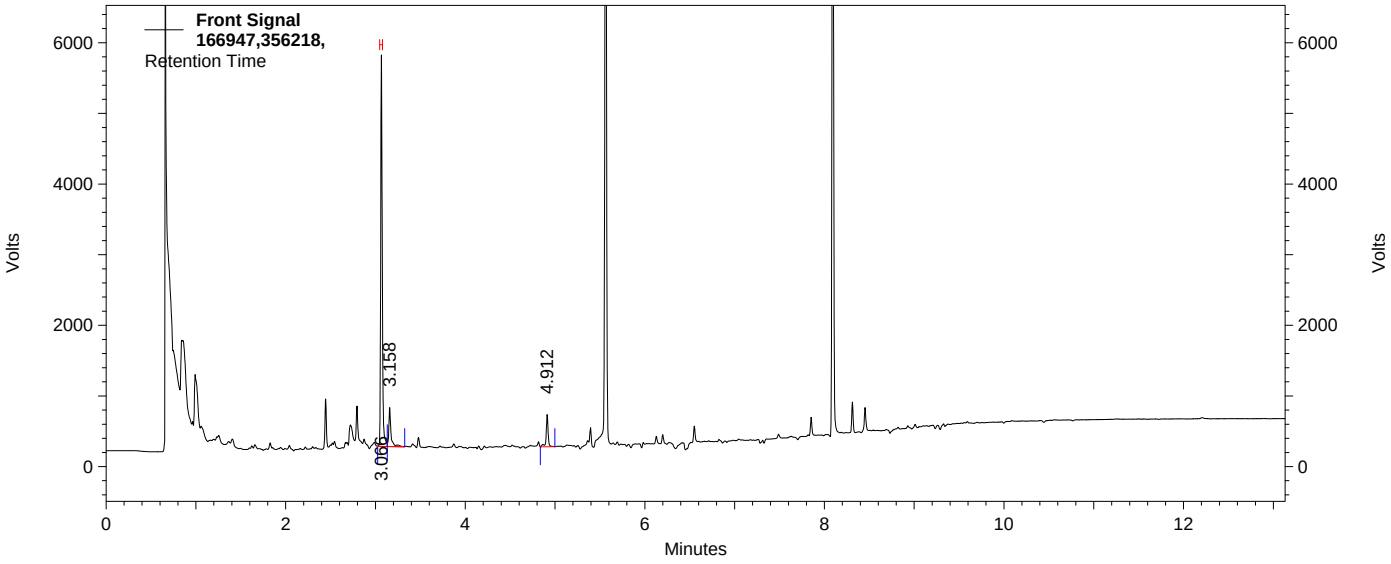

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.719 | 33837748 | 90.9870 |
| ALPHABHC | | | 0.0000 BDL |
| LINDANE | | | 0.0000 BDL |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | | | 0.0000 BDL |
| HEPTACHLOR | | | 0.0000 BDL |
| ALDRIN | 5.619 | 3811820 | 0.0019 |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | | | 0.0000 BDL |
| ENDOI | | | 0.0000 BDL |
| 44DDE | | | 0.0000 BDL |
| DIELDRIN | | | 0.0000 BDL |
| ENDRIN | | | 0.0000 BDL |
| 44DDD | 8.208 | 128497 | 0.0000 |
| ENDOII | | | 0.0000 BDL |
| 44DDT | 8.653 | 535712 | 0.0006 |
| ENDRINALDEH | | | 0.0000 BDL |
| ENDOSULFATE | 9.197 | 8678604 | 0.0073 |
| METHOXYCL | | | 0.0000 BDL |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 11.415 | 17678552 | 70.5688 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\009.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,356218,
**Acquired:** 11/22/2019 17:35:32
**Printed:** 11/25/2019 09:26:50

**Data Summary: {Data Description}**



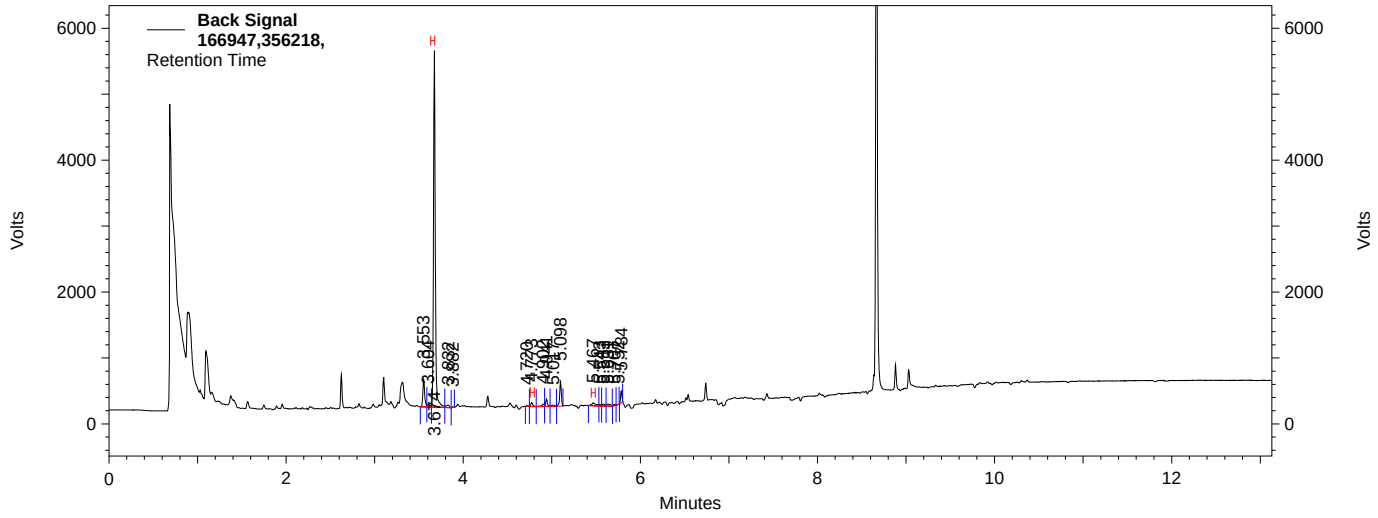

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.066 | 51933635 | 90.2383 |
| 2,4-D | | | 0.0000 BDL |
| Silvex | | | 0.0000 BDL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\009.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,356218,
**Acquired:** 11/22/2019 17:35:32
**Printed:** 11/25/2019 09:26:50

**Data Summary: {Data Description}**




**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.674 | 58211179 | 93.0376 |
| 2,4-D | 4.773 | 721774 | 0.0049 |
| Silvex | 5.467 | 1094038 | 0.0016 |

# PESTICIDE/HERBICIDE
# INITIAL CALIBRATION
# DOCUMENTS

# *Pesticide Analysis Breakdown Report*

**Data File:** C:\Instarch\Semi1\data\111419pstic\001.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
**User:** JJY
**Instrument:** Semi 1
**Sample ID:** EVAL PP6073
**Acquired:** 11/14/2019 16:01:04
**Printed:** 11/14/2019 16:15:48

**Channel A:** **DDT Breakdown** **2.5** **%** **Endrin Breakdown** **6.1** **%**

**Channel B:** **DDT Breakdown** **3.3** **%** **Endrin Breakdown** **6.4** **%**

Channel A

| Compound | Area | Compound | Area |
|---|---|---|---|
| 44DDT | 48299270 | ENDRIN | 47755399 |
| 44DDD | 1129535 | ENDRINALDEH | 1107399 |
| 44DDE | 95349 | ENDRINKETONE | 1983629 |

Channel B

| Compound | Area | Compound | Area |
|---|---|---|---|
| 44DDT | 30247746 | ENDRIN | 33901149 |
| 44DDD | 863706 | ENDRINALDEH | 868649 |
| 44DDE | 179521 | ENDRINKETONE | 1448703 |

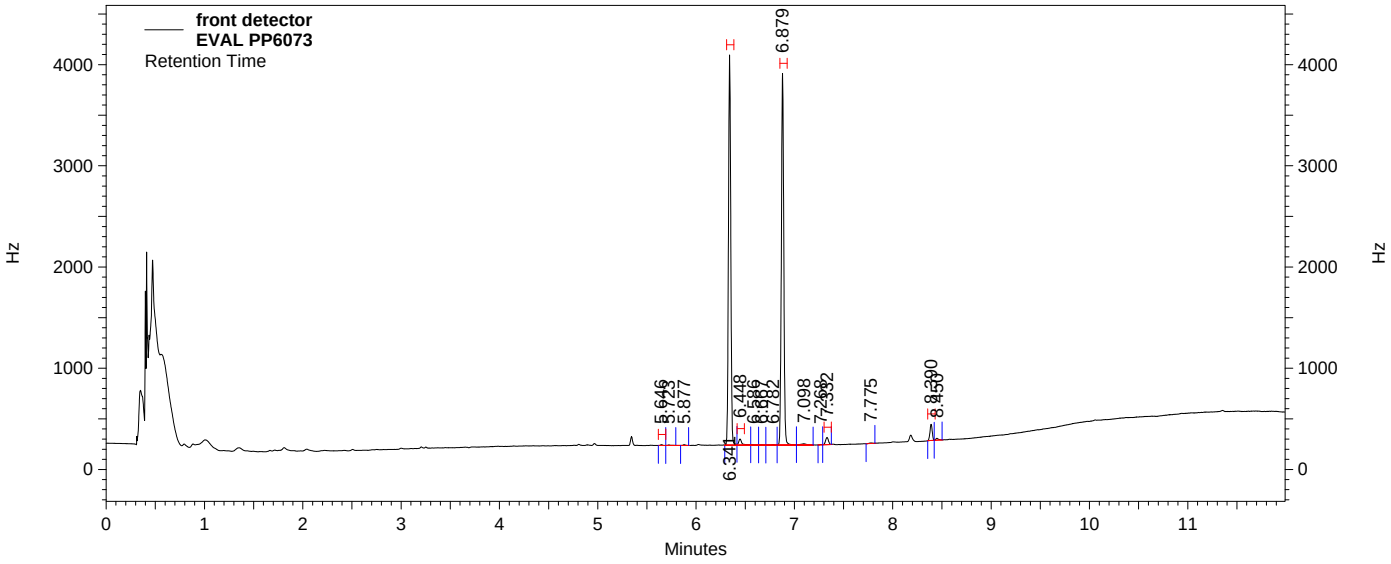
DDT Breakdown $= \frac{44DDD + 44DDE}{44DDD + 44DDE + 44DDT} \times 100\ \%$

Endrin Breakdown $= \frac{\text{Endrin aldehyde + Endrin ketone}}{\text{Endrin + Endrin aldehyde + Endrin ketone}} \times 1...\ \%$

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\001.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
**User:** JJY
**Sample ID:** EVAL PP6073
**Acquired:** 11/14/2019 16:01:04
**Printed:** 11/18/2019 08:41:02

**Data Summary: {Data Description}**



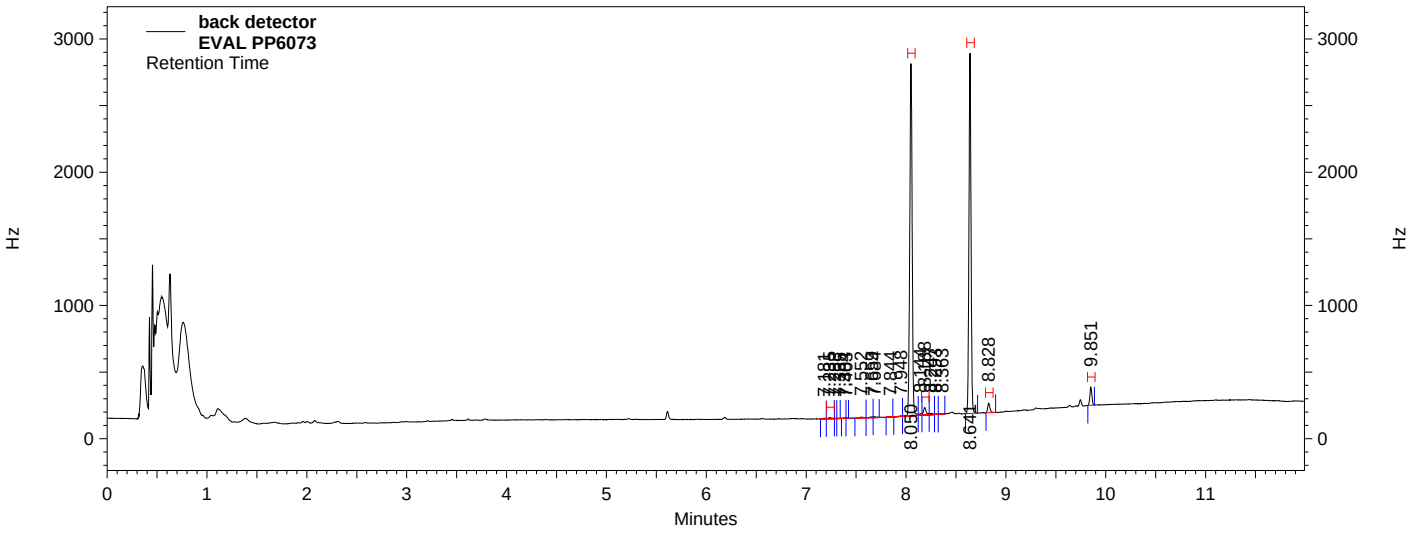

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| 44DDE | 5.646 | 95349 | 0.0003 |
| ENDRIN | 6.341 | 47755399 | 0.0163 |
| 44DDD | 6.448 | 1129535 | 0.0007 |
| 44DDT | 6.879 | 48299270 | 0.0175 |
| ENDRINALDEH | 7.332 | 1107399 | 0.0006 |
| ENDRINKETONE | 8.390 | 1983629 | 0.0008 |

# ***Pesticide Analysis Report*** *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\001.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
**User:** JJY
**Sample ID:** EVAL PP6073
**Acquired:** 11/14/2019 16:01:04
**Printed:** 11/18/2019 08:41:02

**Data Summary: {Data Description}**




**back detector Results**

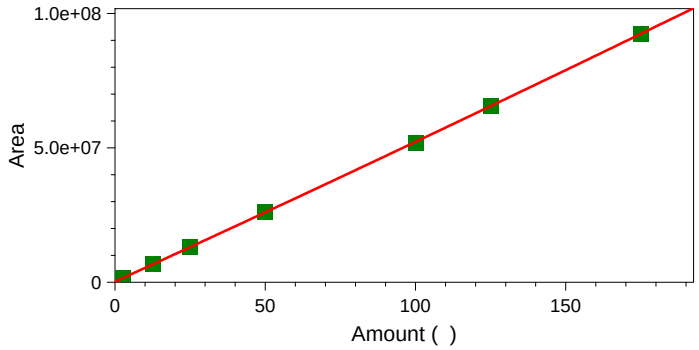
| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| 44DDE | 7.235 | 179521 | 0.0001 |
| ENDRIN | 8.050 | 33901149 | 0.0085 |
| 44DDD | 8.188 | 863706 | 0.0004 |
| 44DDT | 8.641 | 30247746 | 0.0073 |
| ENDRINALDEH | 8.828 | 868649 | 0.0001 |
| ENDRINKETONE | 9.851 | 1448703 | 0.0003 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:38
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (front detector)
Average RF: 535232. RF StDev: 25361.6 RF %RSD: 4.73843
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 90.2924x^2 + 511006.x + 223799.
Goodness of fit (r^2): 0.999963

Peak: SURRTCMXPEST -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 2.5 | 12.5 | 25 | 50 | 100 |
| Area | 1476283 | 6745632 | 13093308 | 26036946 | 51782023 |
| RF | 590513.2 | 539650.56 | 523732.32 | 520738.92 | 517820.23 |
| Last Area | | | | | |
| Residual | 0.0500418 | -0.234093 | -0.0735923 | -0.0714193 | 0.841702 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1476283 | 6745632 | 13093308 | 26036946 | 51782023 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 125 | 175 |
| Area | 65678471 | 92529557 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:38
User: JJY
Instrument: Semi 1 (Offline)

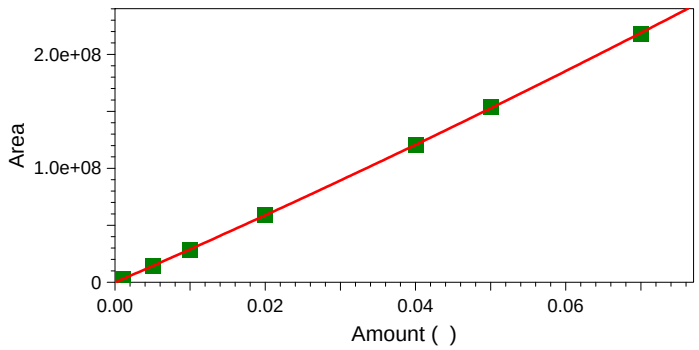
| | | |
|---|---|---|
| RF | 525427.768 | 528740.325714286 |
| Last Area Residual | -0.315149 | -0.211177 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 65678471 | 92529557 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:40
User: JJY
Instrument: Semi 1 (Offline)

ALPHABHC (front detector)
Average RF: 2.93539e+009 RF StDev: 1.45839e+008 RF %RSD: 4.96829
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.61672e+009x^2 + 2.87630e+009x - 208921.
Goodness of fit (r^2): 0.999954

Peak: ALPHABHC -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2707729 | 14138510 | 28568710 | 59161523 | 120217082 |
| RF | 2707729000 | 2827702000 | 2856871000 | 2958076150 | 3005427050 |
| Last Area Residual | -1.27375e-005 | 4.27511e-005 | 0.000117724 | -0.000131621 | 0.000130448 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2707729 | 14138510 | 28568710 | 59161523 | 120217082 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 153664507 | 218305865 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:40
User: JJY
Instrument: Semi 1 (Offline)

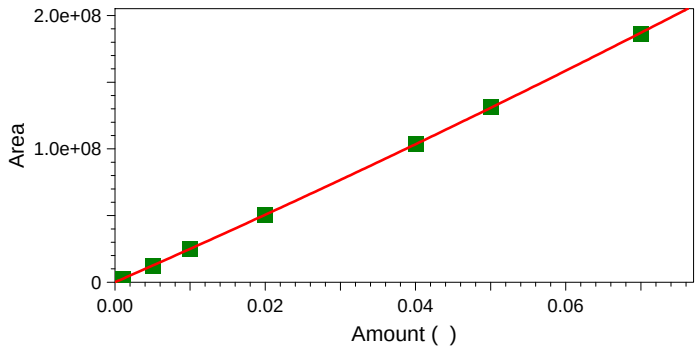
| | | |
|---|---|---|
| RF | 3073290140 | 3118655214.28571 |
| Last Area Residual | -0.000313806 | 0.000162147 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 153664507 | 218305865 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:42
User: JJY
Instrument: Semi 1 (Offline)

LINDANE (front detector)
Average RF: 2.56106e+009 RF StDev: 7.22115e+007 RF %RSD: 2.81960
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.88823e+009x^2 + 2.47011e+009x + 48861.4
Goodness of fit (r^2): 0.999958

Peak: LINDANE -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2542287 | 12539000 | 24555900 | 50744278 | 103551590 |
| RF | 2542287000 | 2507800000 | 2455590000 | 2537213900 | 2588789750 |
| Last Area Residual | -8.25139e-006 | -2.69678e-005 | 0.000191057 | -5.33574e-005 | -2.85998e-005 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2542287 | 12539000 | 24555900 | 50744278 | 103551590 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 131548686 | 186531454 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:42
User: JJY
Instrument: Semi 1 (Offline)

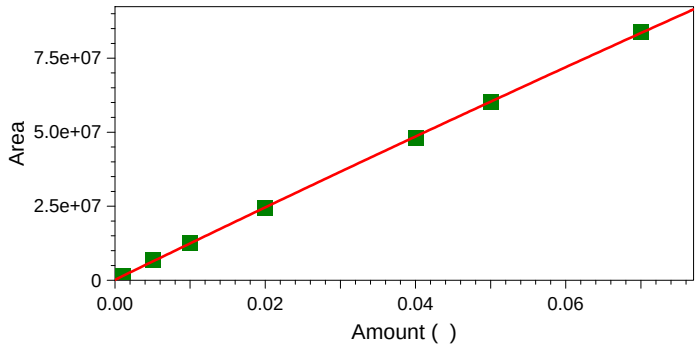
| | | |
|---|---|---|
| RF | 2630973720 | 2664735057.14286 |
| Last Area Residual | -0.000280414 | 0.000200866 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 131548686 | 186531454 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:43
User: JJY
Instrument: Semi 1 (Offline)

BETABHC (front detector)
Average RF: 1.25029e+009 RF StDev: 6.23522e+007 RF %RSD: 4.98703
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -6.31368e+008x^2 + 1.23446e+009x + 163785.
Goodness of fit (r^2): 0.999822

Peak: BETABHC -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1313467 | 6767777 | 12636259 | 24453523 | 47878702 |
| RF | 1313467000 | 1353555400 | 1263625900 | 1222676150 | 1196967550 |
| Last Area Residual | 6.82292e-005 | -0.000364436 | -0.000156377 | 0.000121424 | 0.000551497 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1313467 | 6767777 | 12636259 | 24453523 | 47878702 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 60081877 | 84005636 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:43
User: JJY
Instrument: Semi 1 (Offline)

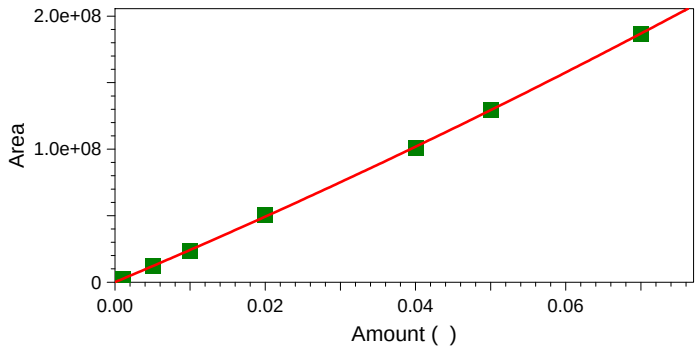
| | | |
|---|---|---|
| RF | 1201637540 | 1200080514.28571 |
| Last Area Residual | 0.000193172 | -0.000457011 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 60081877 | 84005636 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:44
User: JJY
Instrument: Semi 1 (Offline)

DELTABHC (front detector)
Average RF: 2.51678e+009 RF StDev: 1.01925e+008 RF %RSD: 4.04981
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 4.19066e+009x^2 + 2.37564e+009x + 115118.
Goodness of fit (r^2): 0.999925

Peak: DELTABHC -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2520638 | 12100930 | 23635142 | 50424586 | 101194592 |
| RF | 2520638000 | 2420186000 | 2363514200 | 2521229300 | 2529864800 |
| Last Area Residual | -1.07765e-005 | -1.18286e-006 | 0.000266609 | -0.000440241 | 0.000240256 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2520638 | 12100930 | 23635142 | 50424586 | 101194592 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 129549578 | 186973227 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:44
User: JJY
Instrument: Semi 1 (Offline)

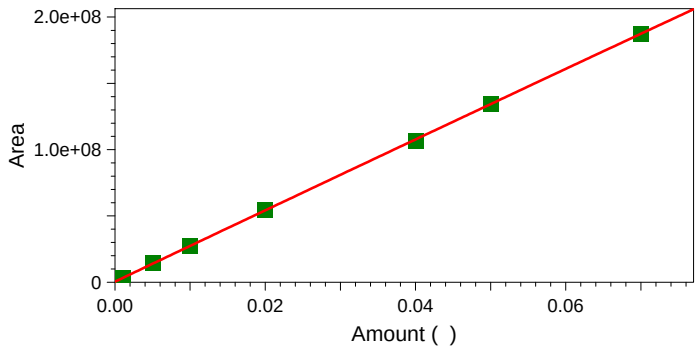
| | | |
|---|---|---|
| RF | 2590991560 | 2671046100 |
| Last Area Residual | -6.29542e-005 | -9.88346e-006 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 129549578 | 186973227 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:46
User: JJY
Instrument: Semi 1 (Offline)

HEPTACHLOR (front detector)
Average RF: 2.77757e+009 RF StDev: 1.55549e+008 RF %RSD: 5.60019
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -3.70054e+008x^2 + 2.69665e+009x + 455814.
Goodness of fit (r^2): 0.999964

Peak: HEPTACHLOR -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 3108733 | 14155791 | 27346170 | 54472691 | 106838406 |
| RF | 3108733000 | 2831158200 | 2734617000 | 2723634550 | 2670960150 |
| Last Area | | | | | |
| Residual | 1.60823e-005 | -8.39246e-005 | 1.45364e-005 | -8.65058e-005 | 0.000334113 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 3108733 | 14155791 | 27346170 | 54472691 | 106838406 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 134683706 | 187616237 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:46
User: JJY
Instrument: Semi 1 (Offline)

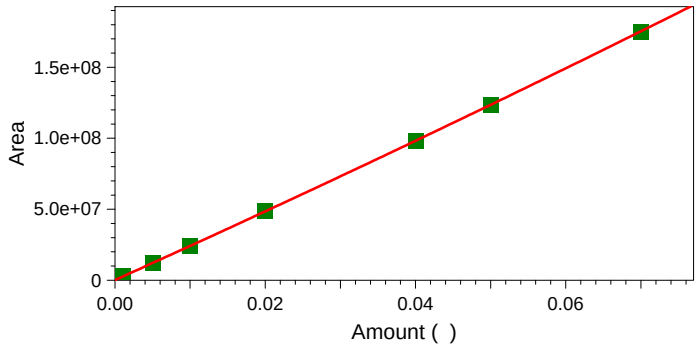
| | | |
|---|---|---|
| RF | 2693674120 | 2680231957.14286 |
| Last Area Residual | -0.000120605 | -7.8839e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 134683706 | 187616237 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:47
User: JJY
Instrument: Semi 1 (Offline)

ALDRIN (front detector)
Average RF: 2.46650e+009 RF StDev: 5.91794e+007 RF %RSD: 2.39932
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.73321e+009x^2 + 2.38127e+009x + 181638.
Goodness of fit (r^2): 0.999995

Peak: ALDRIN -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2575381 | 12139642 | 23957948 | 48661708 | 98188721 |
| RF | 2575381000 | 2427928400 | 2395794800 | 2433085400 | 2454718025 |
| Last Area Residual | -4.50163e-006 | -3.46014e-006 | 8.68287e-005 | -6.58127e-005 | 6.76525e-006 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2575381 | 12139642 | 23957948 | 48661708 | 98188721 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 123781067 | 175210320 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:47
User: JJY
Instrument: Semi 1 (Offline)

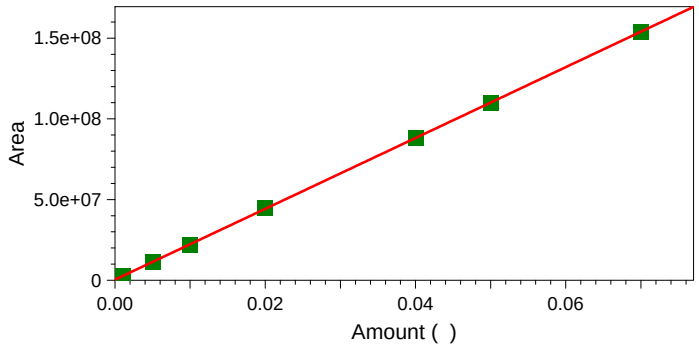
| | | |
|---|---|---|
| RF | 2475621340 | 2503004571.42857 |
| Last Area Residual | -7.93276e-005 | 5.84208e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 123781067 | 175210320 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:49
User: JJY
Instrument: Semi 1 (Offline)

HEPTAEPOX (front detector)
Average RF: 2.26987e+009 RF StDev: 1.32497e+008 RF %RSD: 5.83722
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.34014e+007x^2 + 2.19275e+009x + 378671.
Goodness of fit (r^2): 0.999989

Peak: HEPTAEPOX -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2560420 | 11470422 | 22060751 | 44529341 | 88057255 |
| RF | 2560420000 | 2294084400 | 2206075100 | 2226467050 | 2201431375 |
| Last Area | | | | | |
| Residual | 5.03348e-006 | -5.79771e-005 | 0.000113428 | -0.000128637 | 3.87152e-005 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2560420 | 11470422 | 22060751 | 44529341 | 88057255 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 109910958 | 154165977 |
| RF | 2198219160 | 2202371100 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:49
User: JJY
Instrument: Semi 1 (Offline)

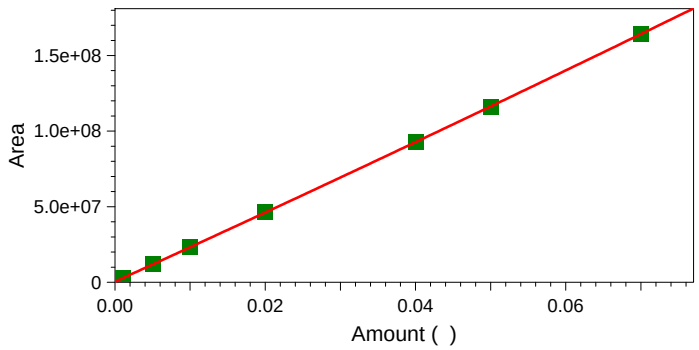
| | | |
|---|---|---|
| Last Area Residual | 8.60115e-005 | -5.95683e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 109910958 | 154165977 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:51
User: JJY
Instrument: Semi 1 (Offline)

GAMMACHLOR (front detector)
Average RF: 2.37639e+009 RF StDev: 1.19697e+008 RF %RSD: 5.03691
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.07199e+009x^2 + 2.26515e+009x + 405560.
Goodness of fit (r^2): 0.999982

Peak: GAMMACHLOR -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2642693 | 11873923 | 23218433 | 46251405 | 92534535 |
| RF | 2642693000 | 2374784600 | 2321843300 | 2312570250 | 2313363375 |
| Last Area | | | | | |
| Residual | 1.28287e-005 | -5.08919e-005 | -2.37028e-005 | -4.94345e-005 | 8.17208e-005 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2642693 | 11873923 | 23218433 | 46251405 | 92534535 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 115903982 | 164599447 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:51
User: JJY
Instrument: Semi 1 (Offline)

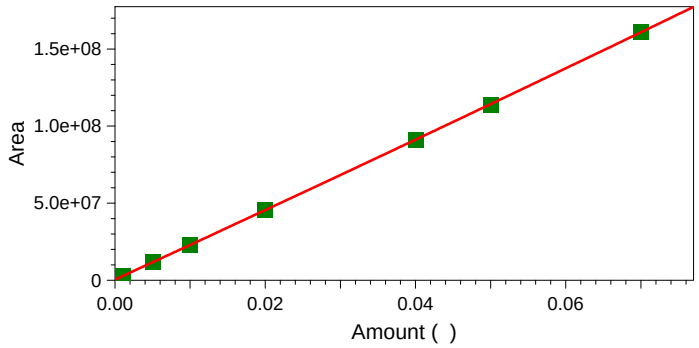
| | | |
|---|---|---|
| RF | 2318079640 | 2351420671.42857 |
| Last Area Residual | 0.000185035 | -0.000157657 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 115903982 | 164599447 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:52
User: JJY
Instrument: Semi 1 (Offline)

ALPHACHLOR (front detector)
Average RF: 2.35053e+009 RF StDev: 1.39080e+008 RF %RSD: 5.91698
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.76070e+008x^2 + 2.23756e+009x + 456032.
Goodness of fit (r^2): 0.999965

Peak: ALPHACHLOR -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2658961 | 11791848 | 22998674 | 45648713 | 91036280 |
| RF | 2658961000 | 2358369600 | 2299867400 | 2282435650 | 2275907000 |
| Last Area | | | | | |
| Residual | 1.58112e-005 | -5.72902e-005 | -3.97146e-005 | -5.78081e-005 | 7.1177e-005 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2658961 | 11791848 | 22998674 | 45648713 | 91036280 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 113628953 | 161390608 |

**Calibration Report**

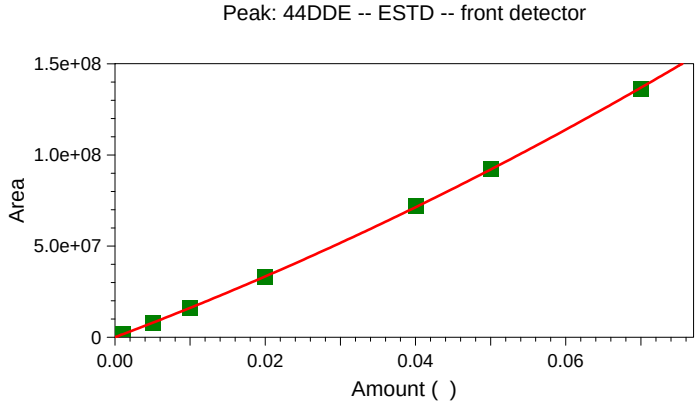
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:52
User: JJY
Instrument: Semi 1 (Offline)

| | | |
|---|---|---|
| RF | 2272579060 | 2305580114.28571 |
| Last Area Residual | 0.000278633 | -0.000214356 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 113628953 | 161390608 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:54
User: JJY
Instrument: Semi 1 (Offline)

44DDE (front detector)
Average RF: 1.72063e+009 RF StDev: 1.46916e+008 RF %RSD: 8.53852
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.78714e+009x^2 + 1.55094e+009x + 35210.8
Goodness of fit (r^2): 0.999950




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1640328 | 7699873 | 16057765 | 33288201 | 72024137 |
| RF | 1640328000 | 1539974600 | 1605776500 | 1664410050 | 1800603425 |
| Last Area Residual | -3.09632e-005 | 0.000145983 | 3.93644e-005 | 4.53072e-005 | -0.000343143 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1640328 | 7699873 | 16057765 | 33288201 | 72024137 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 92163077 | 136503762 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:54
User: JJY
Instrument: Semi 1 (Offline)

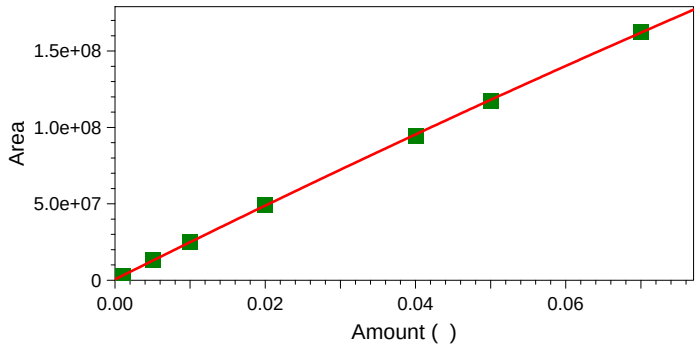
| | | |
|---|---|---|
| RF | 1843261540 | 1950053742.85714 |
| Last Area Residual | -5.29655e-005 | 0.000192591 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 92163077 | 136503762 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:56
User: JJY
Instrument: Semi 1 (Offline)

ENDOI (front detector)
Average RF: 2.50984e+009 RF StDev: 2.14534e+008 RF %RSD: 8.54772
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.13787e+009x^2 + 2.45626e+009x + 569396.
Goodness of fit (r^2): 0.999920

Peak: ENDOI -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2925453 | 13240083 | 25065377 | 48970317 | 94584803 |
| RF | 2925453000 | 2648016600 | 2506537700 | 2448515850 | 2364620075 |
| Last Area Residual | 3.99939e-005 | -0.000181893 | -6.09673e-005 | -5.51784e-005 | 0.000356309 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2925453 | 13240083 | 25065377 | 48970317 | 94584803 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 117518896 | 162775035 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:56
User: JJY
Instrument: Semi 1 (Offline)

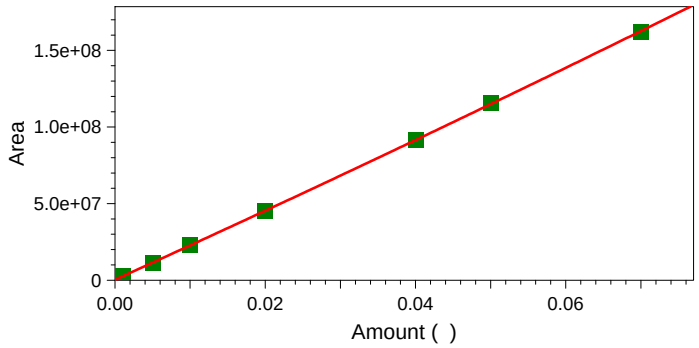
| | | |
|---|---|---|
| RF | 2350377920 | 2325357642.85714 |
| Last Area Residual | 0.000231377 | -0.000344493 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 117518896 | 162775035 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:57
User: JJY
Instrument: Semi 1 (Offline)

DIELDRIN (front detector)
Average RF: 2.33165e+009 RF StDev: 1.16194e+008 RF %RSD: 4.98334
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.32184e+009x^2 + 2.22580e+009x + 339800.
Goodness of fit (r^2): 0.999986

Peak: DIELDRIN -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2591591 | 11400138 | 22659197 | 45433067 | 91425506 |
| RF | 2591591000 | 2280027600 | 2265919700 | 2271653350 | 2285637650 |
| Last Area Residual | -1.10709e-005 | 4.54222e-005 | 3.14217e-005 | -2.13143e-005 | 2.62334e-005 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2591591 | 11400138 | 22659197 | 45433067 | 91425506 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 115378522 | 162342514 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:57
User: JJY
Instrument: Semi 1 (Offline)

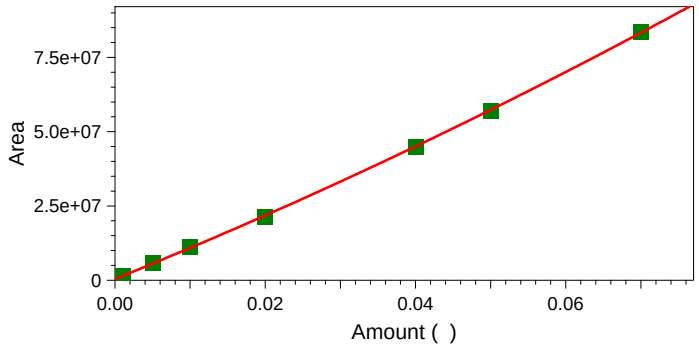
| | | |
|---|---|---|
| RF | 2307570440 | 2319178771.42857 |
| Last Area Residual | -0.000188368 | 0.000116221 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 115378522 | 162342514 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:59
User: JJY
Instrument: Semi 1 (Offline)

ENDRIN (front detector)
Average RF: 1.17041e+009 RF StDev: 9.80192e+007 RF %RSD: 8.37477
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.29588e+009x^2 + 1.02346e+009x + 417410.
Goodness of fit (r^2): 0.999889

Peak: ENDRIN -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1374372 | 5834350 | 11232811 | 21441469 | 44758643 |
| RF | 1374372000 | 1166870000 | 1123281100 | 1072073450 | 1118966075 |
| Last Area Residual | 6.69274e-005 | -0.000231375 | -0.000328186 | 0.000326154 | 0.000224279 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1374372 | 5834350 | 11232811 | 21441469 | 44758643 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 57068212 | 83716401 |

**Calibration Report**

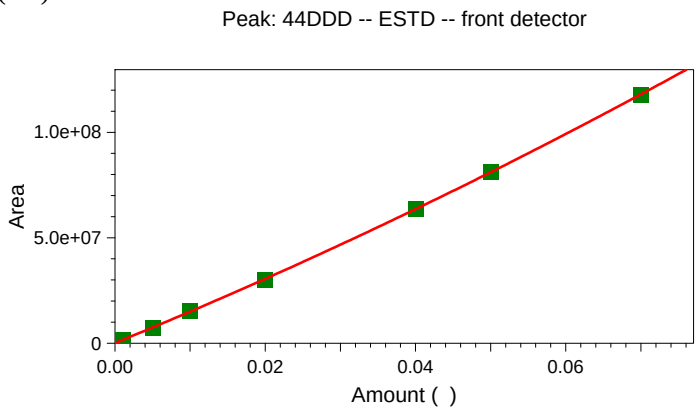
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:07:59
User: JJY
Instrument: Semi 1 (Offline)

| | | |
|---|---|---|
| RF | 1141364240 | 1195948585.71429 |
| Last Area Residual | 0.000209133 | -0.000302399 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 57068212 | 83716401 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:01
User: JJY
Instrument: Semi 1 (Offline)

44DDD (front detector)
Average RF: 1.57004e+009 RF StDev: 7.13839e+007 RF %RSD: 4.54662
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 3.27199e+009x^2 + 1.45545e+009x + 113118.
Goodness of fit (r^2): 0.999956




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1567359 | 7388432 | 15424878 | 30046803 | 63574727 |
| RF | 1567359000 | 1477686400 | 1542487800 | 1502340150 | 1589368175 |
| Last Area Residual | 3.06207e-006 | 5.62601e-005 | -0.000282627 | 0.000305315 | -5.00784e-006 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1567359 | 7388432 | 15424878 | 30046803 | 63574727 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 81317120 | 117930439 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:01
User: JJY
Instrument: Semi 1 (Offline)

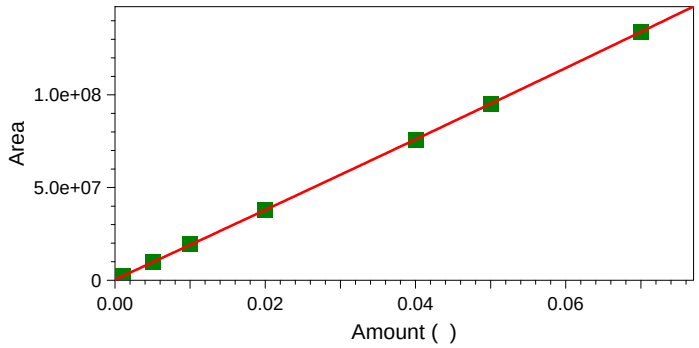
| | | |
|---|---|---|
| RF | 1626342400 | 1684720557.14286 |
| Last Area Residual | -0.000141184 | 5.04996e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 81317120 | 117930439 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:02
User: JJY
Instrument: Semi 1 (Offline)

ENDOII (front detector)
Average RF: 1.95280e+009 RF StDev: 1.01405e+008 RF %RSD: 5.19276
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 6.19113e+008x^2 + 1.86599e+009x + 347577.
Goodness of fit (r^2): 0.999981

Peak: ENDOII -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2173974 | 9829203 | 19339568 | 37654335 | 75696805 |
| RF | 2173974000 | 1965840600 | 1933956800 | 1882716750 | 1892420125 |
| Last Area Residual | 2.1538e-005 | -7.2735e-005 | -0.000143807 | 0.000137927 | 0.00014677 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2173974 | 9829203 | 19339568 | 37654335 | 75696805 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 95173667 | 134207629 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:02
User: JJY
Instrument: Semi 1 (Offline)

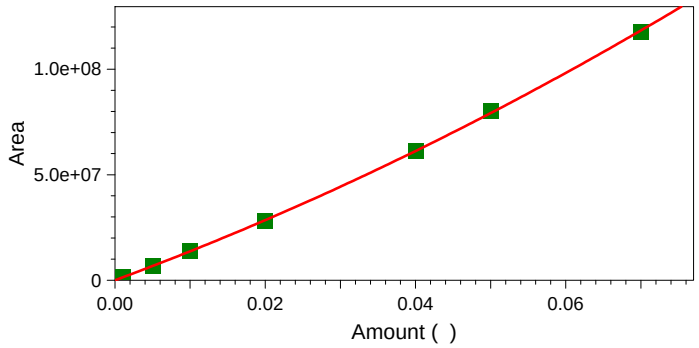
| | | |
|---|---|---|
| RF | 1903473340 | 1917251842.85714 |
| Last Area Residual | 1.11057e-005 | -0.000105899 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 95173667 | 134207629 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:04
User: JJY
Instrument: Semi 1 (Offline)

44DDT (front detector)
Average RF: 1.46995e+009 RF StDev: 1.35760e+008 RF %RSD: 9.23569
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.34519e+009x^2 + 1.31645e+009x + 18344.5
Goodness of fit (r^2): 0.999885

Peak: 44DDT -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1334860 | 6755633 | 13909978 | 27946161 | 61196972 |
| RF | 1334860000 | 1351126600 | 1390997800 | 1397308050 | 1529924300 |
| Last Area Residual | 3.98122e-006 | -1.56126e-005 | -0.000135228 | 0.000352884 | 1.82568e-005 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1334860 | 6755633 | 13909978 | 27946161 | 61196972 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 80073710 | 117878984 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:04
User: JJY
Instrument: Semi 1 (Offline)

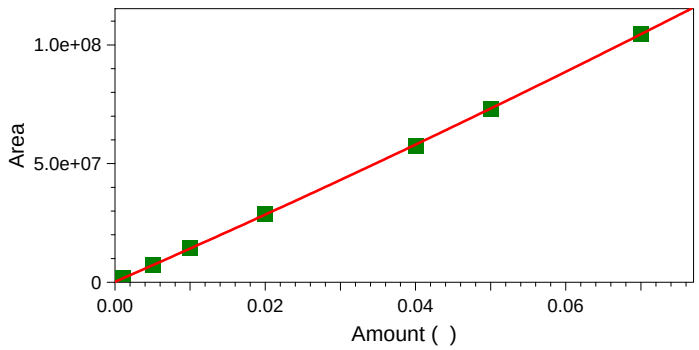
| | | |
|---|---|---|
| RF | 1601474200 | 1683985485.71429 |
| Last Area Residual | -0.000469217 | 0.000233864 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 80073710 | 117878984 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:06
User: JJY
Instrument: Semi 1 (Offline)

ENDRINALDEH (front detector)
Average RF: 1.46836e+009 RF StDev: 4.90283e+007 RF %RSD: 3.33899
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.51593e+009x^2 + 1.38397e+009x + 209805.
Goodness of fit (r^2): 0.999946

Peak: ENDRINALDEH -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1566182 | 7255463 | 14351663 | 28596762 | 57404432 |
| RF | 1566182000 | 1451092600 | 1435166300 | 1429838100 | 1435110800 |
| Last Area Residual | 2.09879e-005 | -6.28243e-005 | -0.000106441 | -7.00245e-005 | 0.000391921 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1566182 | 7255463 | 14351663 | 28596762 | 57404432 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 73186495 | 104817195 |
| RF | 1463729900 | 1497388500 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:06
User: JJY
Instrument: Semi 1 (Offline)

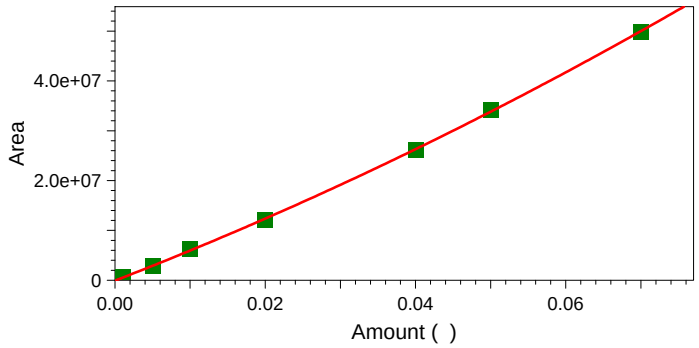
| | | |
|---|---|---|
| Last Area Residual | 7.61369e-006 | -0.000188757 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 73186495 | 104817195 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:07
User: JJY
Instrument: Semi 1 (Offline)

METHOXYCL (front detector)
Average RF: 6.22284e+008 RF StDev: 6.95379e+007 RF %RSD: 11.1746
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.86641e+009x^2 + 5.84660e+008x - 74368.1
Goodness of fit (r^2): 0.999894

Peak: METHOXYCL -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 503421 | 2910283 | 6169586 | 12067206 | 26212249 |
| RF | 503421000 | 582056600 | 616958600 | 603360300 | 655306225 |
| Last Area Residual | 1.48503e-005 | -2.4347e-005 | -0.000338427 | 0.000452857 | 0.000117273 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 503421 | 2910283 | 6169586 | 12067206 | 26212249 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 34087676 | 49919067 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:07
User: JJY
Instrument: Semi 1 (Offline)

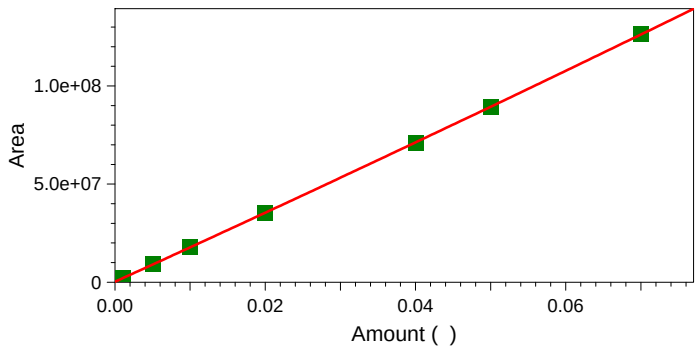
| | | |
|---|---|---|
| RF | 681753520 | 713129528.571429 |
| Last Area Residual | -0.000340706 | 9.24589e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 34087676 | 49919067 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:09
User: JJY
Instrument: Semi 1 (Offline)

ENDOSULFATE (front detector)
Average RF: 1.81983e+009 RF StDev: 6.55515e+007 RF %RSD: 3.60207
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 8.34583e+008x^2 + 1.74085e+009x + 278172.
Goodness of fit (r^2): 0.999929

Peak: ENDOSULFATE -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1947616 | 9289906 | 18137708 | 35167346 | 70699236 |
| RF | 1947616000 | 1857981200 | 1813770800 | 1758367300 | 1767480900 |
| Last Area Residual | 4.14572e-005 | -0.000163851 | -0.000209134 | 0.000147464 | 0.000303307 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1947616 | 9289906 | 18137708 | 35167346 | 70699236 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 89149848 | 126739960 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:09
User: JJY
Instrument: Semi 1 (Offline)

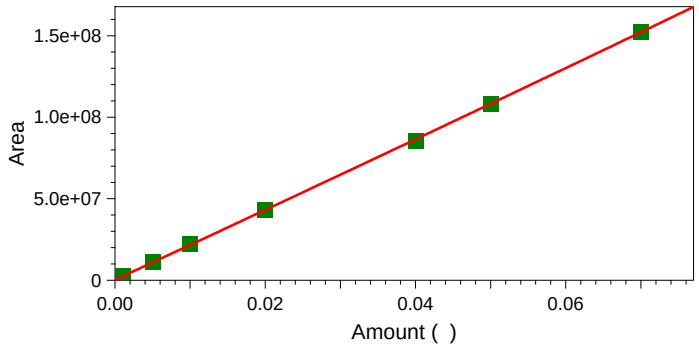
| | | |
|---|---|---|
| RF | 1782996960 | 1810570857.14286 |
| Last Area Residual | 0.000140982 | -0.000276103 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 89149848 | 126739960 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:10
User: JJY
Instrument: Semi 1 (Offline)

ENDRINKETONE (front detector)
Average RF: 2.20284e+009 RF StDev: 7.25364e+007 RF %RSD: 3.29286
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.42364e+008x^2 + 2.13208e+009x + 277821.
Goodness of fit (r^2): 0.999946

Peak: ENDRINKETONE -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2351911 | 11137395 | 22058685 | 42964534 | 85639798 |
| RF | 2351911000 | 2227479000 | 2205868500 | 2148226700 | 2140994950 |
| Last Area | | | | | |
| Residual | 2.74389e-005 | -8.68374e-005 | -0.000189375 | 7.97759e-005 | 0.000362701 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2351911 | 11137395 | 22058685 | 42964534 | 85639798 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 108271910 | 152595703 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:10
User: JJY
Instrument: Semi 1 (Offline)

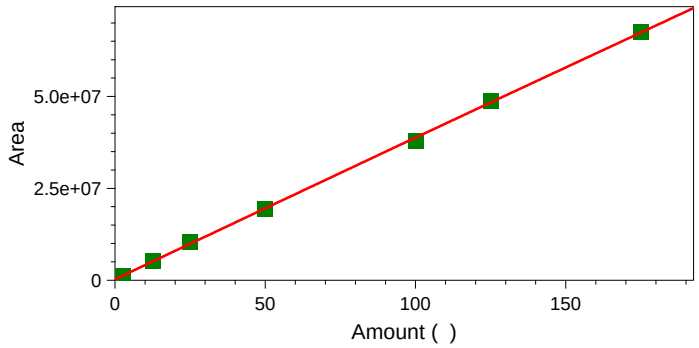
| | | |
|---|---|---|
| RF | 2165438200 | 2179938614.28571 |
| Last Area Residual | -1.56518e-005 | -0.000187832 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 108271910 | 152595703 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:12
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (front detector)
Average RF: 405368. RF StDev: 28023.5 RF %RSD: 6.91310
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -22.8133x^2 + 387730.x + 240217.
Goodness of fit (r^2): 0.999568

Peak: SURRDCBPEST -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 2.5 | 12.5 | 25 | 50 | 100 |
| Area | 1134514 | 5363297 | 10358026 | 19269071 | 37799730 |
| RF | 453805.6 | 429063.76 | 414321.04 | 385381.42 | 377997.3 |
| Last Area | | | | | |
| Residual | 0.193194 | -0.723296 | -1.13517 | 0.779868 | 2.57121 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1134514 | 5363297 | 10358026 | 19269071 | 37799730 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:01 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 125 | 175 |
| Area | 48791538 | 67668432 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:12
User: JJY
Instrument: Semi 1 (Offline)

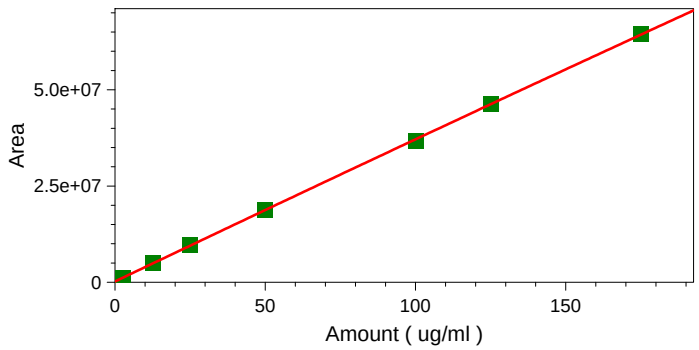
| | | |
|---|---|---|
| RF | 390332.304 | 386676.754285714 |
| Last Area Residual | -1.15583 | -0.721891 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 48791538 | 67668432 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:18
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (back detector)
Average RF: 386608. RF StDev: 25348.7 RF %RSD: 6.55670
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -38.2384x^2 + 373152.x + 202310.
Goodness of fit (r^2): 0.999863

Peak: SURRTCMXPEST -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 2.5 | 12.5 | 25 | 50 | 100 |
| Area | 1088249 | 5066054 | 9625480 | 18785541 | 36570880 |
| RF | 435299.6 | 405284.32 | 385019.2 | 375710.82 | 365708.8 |
| Last Area | | | | | |
| Residual | 0.12522 | -0.551666 | -0.318577 | -0.057453 | 1.54354 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1088249 | 5066054 | 9625480 | 18785541 | 36570880 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 125 | 175 |
| Area | 46239756 | 64630027 |
| RF | 369918.048 | 369314.44 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:18
User: JJY
Instrument: Semi 1 (Offline)

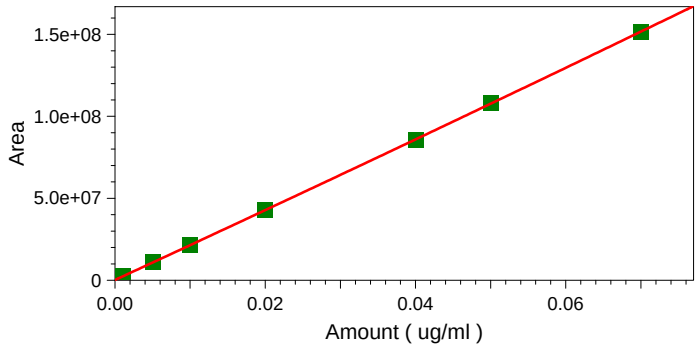
| | | |
|---|---|---|
| Last Area Residual | 0.025025 | -0.825992 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 46239756 | 64630027 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:20
User: JJY
Instrument: Semi 1 (Offline)

ALPHABHC (back detector)
Average RF: 2.17486e+009 RF StDev: 5.25620e+007 RF %RSD: 2.41680
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.22108e+008x^2 + 2.11398e+009x + 202757.
Goodness of fit (r^2): 0.999973

Peak: ALPHABHC -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2285033 | 10959081 | 21469964 | 42740516 | 85335764 |
| RF | 2285033000 | 2191816200 | 2146996400 | 2137025800 | 2133394100 |
| Last Area | | | | | |
| Residual | 1.53293e-005 | -7.93688e-005 | -2.59238e-005 | 1.4337e-005 | 0.000267845 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2285033 | 10959081 | 21469964 | 42740516 | 85335764 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 108068310 | 151788296 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:20
User: JJY
Instrument: Semi 1 (Offline)

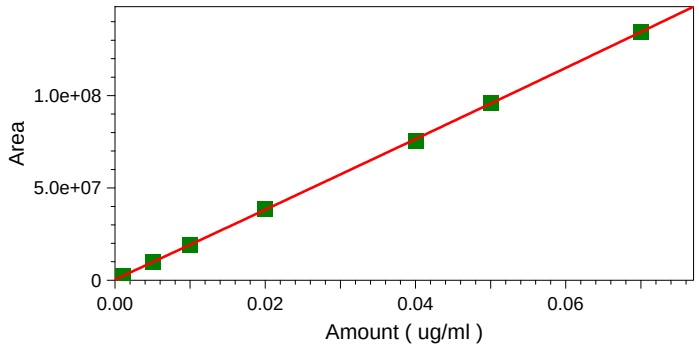
| | | |
|---|---|---|
| RF | 2161366200 | 2168404228.57143 |
| Last Area Residual | -0.000165204 | -3.09138e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 108068310 | 151788296 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:22
User: JJY
Instrument: Semi 1 (Offline)

LINDANE (back detector)
Average RF: 1.97076e+009 RF StDev: 1.13641e+008 RF %RSD: 5.76633
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 4.68837e+008x^2 + 1.88327e+009x + 371905.
Goodness of fit (r^2): 0.999950

Peak: LINDANE -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2220508 | 9918346 | 19387391 | 38347793 | 75685982 |
| RF | 2220508000 | 1983669200 | 1938739100 | 1917389650 | 1892149550 |
| Last Area Residual | 1.86478e-005 | -6.26947e-005 | -7.18004e-005 | -6.46348e-005 | 0.0003993 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2220508 | 9918346 | 19387391 | 38347793 | 75685982 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 95895556 | 134746874 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:22
User: JJY
Instrument: Semi 1 (Offline)

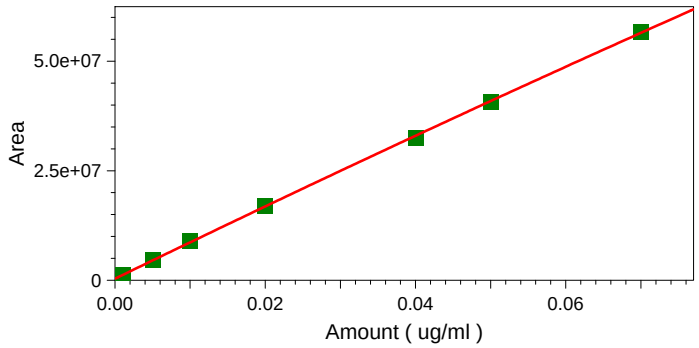
| | | |
|---|---|---|
| RF | 1917911120 | 1924955342.85714 |
| Last Area Residual | -9.74108e-005 | -0.000127615 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 95895556 | 134746874 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:23
User: JJY
Instrument: Semi 1 (Offline)

BETABHC (back detector)
Average RF: 8.91687e+008 RF StDev: 1.23895e+008 RF %RSD: 13.8945
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.64665e+008x^2 + 8.34203e+008x + 354372.
Goodness of fit (r^2): 0.999857

Peak: BETABHC -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1158351 | 4540032 | 8917065 | 16874791 | 32552966 |
| RF | 1158351000 | 908006400 | 891706500 | 843739550 | 813824150 |
| Last Area Residual | 3.57136e-005 | -3.16559e-005 | -0.000323884 | -2.72422e-005 | 0.00053441 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1158351 | 4540032 | 8917065 | 16874791 | 32552966 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 40752437 | 56779154 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:23
User: JJY
Instrument: Semi 1 (Offline)

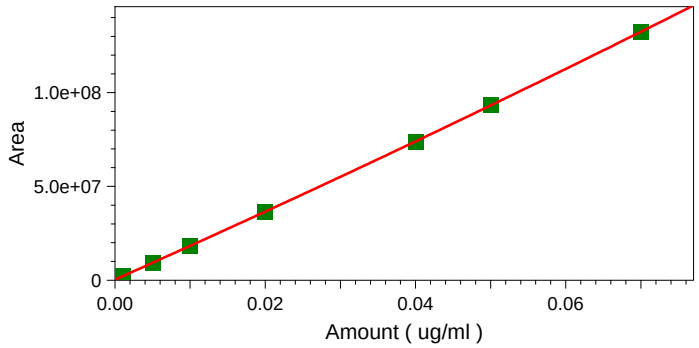
| | | |
|---|---|---|
| RF | 815048740 | 811130771.428571 |
| Last Area Residual | 0.000190952 | -0.000399772 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 40752437 | 56779154 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:25
User: JJY
Instrument: Semi 1 (Offline)

DELTABHC (back detector)
Average RF: 1.89655e+009 RF StDev: 1.01931e+008 RF %RSD: 5.37458
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.53271e+009x^2 + 1.77955e+009x + 370280.
Goodness of fit (r^2): 0.999988

Peak: DELTABHC -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2119565 | 9465950 | 18346043 | 36556683 | 73656276 |
| RF | 2119565000 | 1893190000 | 1834604300 | 1827834150 | 1841406900 |
| Last Area Residual | 1.78361e-005 | -8.89233e-005 | -1.49284e-005 | 9.57037e-006 | 0.000183088 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2119565 | 9465950 | 18346043 | 36556683 | 73656276 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 93256419 | 132587867 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:25
User: JJY
Instrument: Semi 1 (Offline)

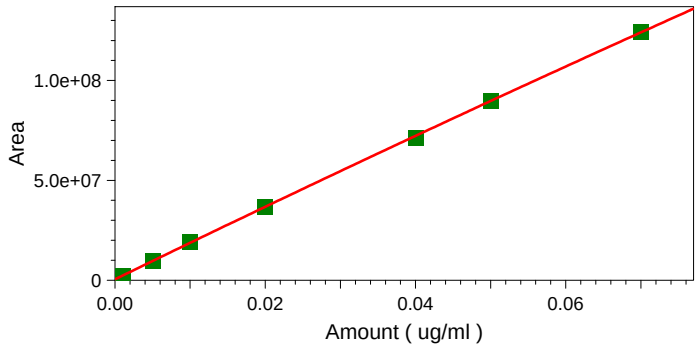
| | | |
|---|---|---|
| RF | 1865128380 | 1894112385.71429 |
| Last Area Residual | -3.9849e-005 | -6.97169e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 93256419 | 132587867 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:27
User: JJY
Instrument: Semi 1 (Offline)

HEPTACHLOR (back detector)
Average RF: 1.90310e+009 RF StDev: 1.70597e+008 RF %RSD: 8.96417
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -9.75001e+008x^2 + 1.83357e+009x + 486256.
Goodness of fit (r^2): 0.999912

Peak: HEPTACHLOR -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2256826 | 9852145 | 18925830 | 36893275 | 71378459 |
| RF | 2256826000 | 1970429000 | 1892583000 | 1844663750 | 1784461475 |
| Last Area | | | | | |
| Residual | 3.3864e-005 | -0.000121951 | -0.000111 | -6.99756e-005 | 0.000507208 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2256826 | 9852145 | 18925830 | 36893275 | 71378459 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 89704678 | 124506938 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:27
User: JJY
Instrument: Semi 1 (Offline)

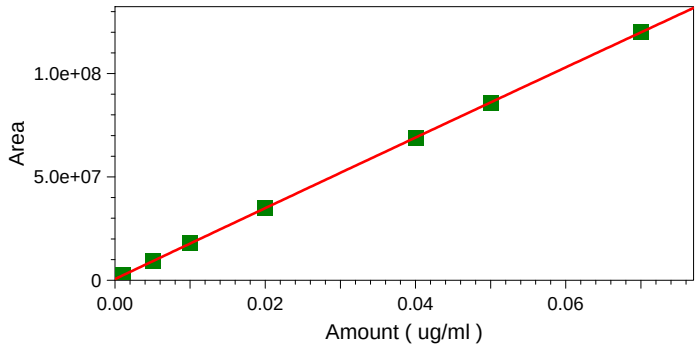
| | | |
|---|---|---|
| RF | 1794093560 | 1778670542.85714 |
| Last Area Residual | 1.3073e-005 | -0.000264094 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 89704678 | 124506938 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:28
User: JJY
Instrument: Semi 1 (Offline)

ALDRIN (back detector)
Average RF: 1.83251e+009 RF StDev: 1.96166e+008 RF %RSD: 10.7048
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.04207e+008x^2 + 1.71931e+009x + 597418.
Goodness of fit (r^2): 0.999955

Peak: ALDRIN -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 2253590 | 9464282 | 17843036 | 34933989 | 68611387 |
| RF | 2253590000 | 1892856400 | 1784303600 | 1746699450 | 1715284675 |
| Last Area | | | | | |
| Residual | 3.66127e-005 | -0.000160384 | -4.2522e-005 | -1.87274e-005 | 0.0002535 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2253590 | 9464282 | 17843036 | 34933989 | 68611387 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 85765107 | 120365325 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:28
User: JJY
Instrument: Semi 1 (Offline)

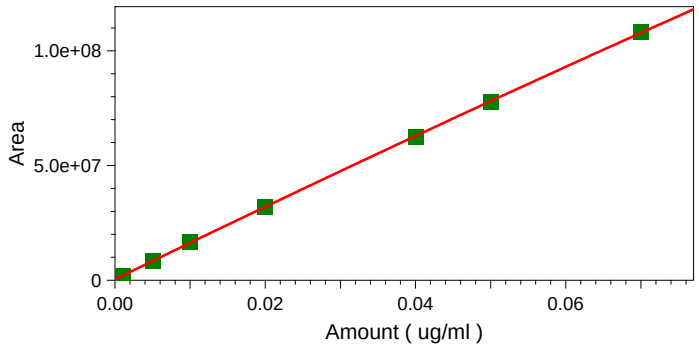
| | | |
|---|---|---|
| RF | 1715302140 | 1719504642.85714 |
| Last Area Residual | 0.000169116 | -0.000246524 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 85765107 | 120365325 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:30
User: JJY
Instrument: Semi 1 (Offline)

HEPTAEPOX (back detector)
Average RF: 1.65250e+009 RF StDev: 1.37351e+008 RF %RSD: 8.31169
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -9.21824e+008x^2 + 1.59924e+009x + 397561.
Goodness of fit (r^2): 0.999889

Peak: HEPTAEPOX -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1927423 | 8628971 | 16518367 | 32089357 | 62255508 |
| RF | 1927423000 | 1725794200 | 1651836700 | 1604467850 | 1556387700 |
| Last Area Residual | 4.28517e-005 | -0.000162448 | -0.000139573 | -4.85097e-005 | 0.00041721 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1927423 | 8628971 | 16518367 | 32089357 | 62255508 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 77637051 | 108420680 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:30
User: JJY
Instrument: Semi 1 (Offline)

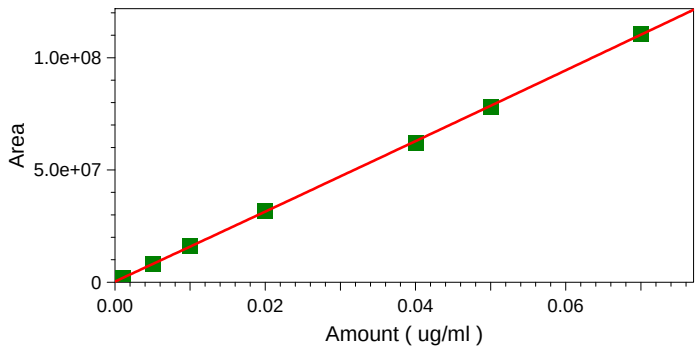
| | | |
|---|---|---|
| RF | 1552741020 | 1548866857.14286 |
| Last Area Residual | 0.000277179 | -0.000403776 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 77637051 | 108420680 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:31
User: JJY
Instrument: Semi 1 (Offline)

GAMMACHLOR (back detector)
Average RF: 1.62277e+009 RF StDev: 9.09292e+007 RF %RSD: 5.60334
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 2.46560e+008x^2 + 1.55320e+009x + 314459.
Goodness of fit (r^2): 0.999911

Peak: GAMMACHLOR -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1814927 | 8277807 | 16060587 | 31596683 | 62239223 |
| RF | 1814927000 | 1655561400 | 1606058700 | 1579834150 | 1555980575 |
| Last Area Residual | 3.40961e-005 | -0.000122907 | -0.000121628 | -7.65718e-005 | 0.000379925 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1814927 | 8277807 | 16060587 | 31596683 | 62239223 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 78212100 | 110793886 |
| RF | 1564242000 | 1582769800 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:31
User: JJY
Instrument: Semi 1 (Offline)

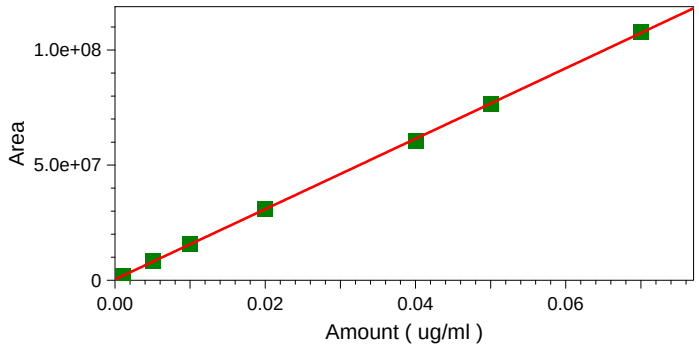
| | | |
|---|---|---|
| Last Area Residual | 0.000239917 | -0.000344873 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 78212100 | 110793886 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:33
User: JJY
Instrument: Semi 1 (Offline)

ALPHACHLOR (back detector)
Average RF: 1.59982e+009 RF StDev: 1.08570e+008 RF %RSD: 6.78637
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.67610e+007x^2 + 1.52495e+009x + 368429.
Goodness of fit (r^2): 0.999866

Peak: ALPHACHLOR -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1823791 | 8258324 | 15845186 | 31010445 | 60707865 |
| RF | 1823791000 | 1651664800 | 1584518600 | 1550522250 | 1517696625 |
| Last Area Residual | 4.56647e-005 | -0.000172888 | -0.000145219 | -7.88264e-005 | 0.000489868 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1823791 | 8258324 | 15845186 | 31010445 | 60707865 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 76359911 | 108033429 |
| RF | 1527198220 | 1543334700 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:33
User: JJY
Instrument: Semi 1 (Offline)

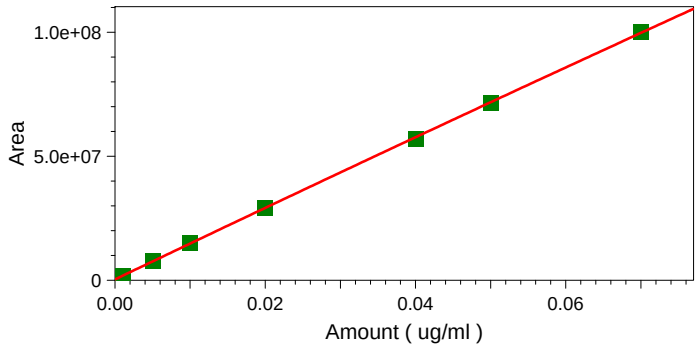
| | | |
|---|---|---|
| Last Area Residual | 0.000259855 | -0.000417916 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 76359911 | 108033429 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:35
User: JJY
Instrument: Semi 1 (Offline)

ENDOI (back detector)
Average RF: 1.50624e+009 RF StDev: 1.10687e+008 RF %RSD: 7.34854
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -4.38295e+008x^2 + 1.45104e+009x + 339017.
Goodness of fit (r^2): 0.999888

Peak: ENDOI -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1733114 | 7785358 | 15003548 | 29292621 | 57128366 |
| RF | 1733114000 | 1557071600 | 1500354800 | 1464631050 | 1428209150 |
| Last Area Residual | 3.89647e-005 | -0.000139702 | -0.000137253 | -7.54095e-005 | 0.000389103 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1733114 | 7785358 | 15003548 | 29292621 | 57128366 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 71351639 | 100328700 |

**Calibration Report**

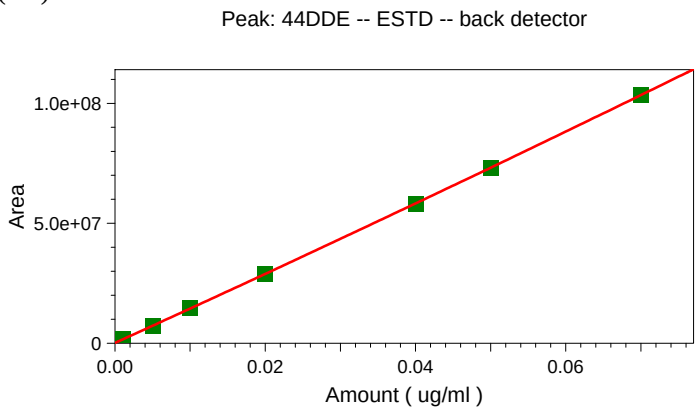
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:35
User: JJY
Instrument: Semi 1 (Offline)

| | | |
|---|---|---|
| RF | 1427032780 | 1433267142.85714 |
| Last Area Residual | 0.000315274 | -0.000406221 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 71351639 | 100328700 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:36
User: JJY
Instrument: Semi 1 (Offline)

44DDE (back detector)
Average RF: 1.47479e+009 RF StDev: 3.97658e+007 RF %RSD: 2.69636
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 7.65308e+008x^2 + 1.42226e+009x + 155232.
Goodness of fit (r^2): 0.999981




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1561402 | 7329397 | 14559678 | 28963505 | 58025811 |
| RF | 1561402000 | 1465879400 | 1455967800 | 1448175250 | 1450645275 |
| Last Area | | | | | |
| Residual | 1.18387e-005 | -3.05832e-005 | -7.32565e-005 | -3.91975e-005 | 0.000164703 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1561402 | 7329397 | 14559678 | 28963505 | 58025811 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 73002786 | 103700653 |
| RF | 1460055720 | 1481437900 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:36
User: JJY
Instrument: Semi 1 (Offline)

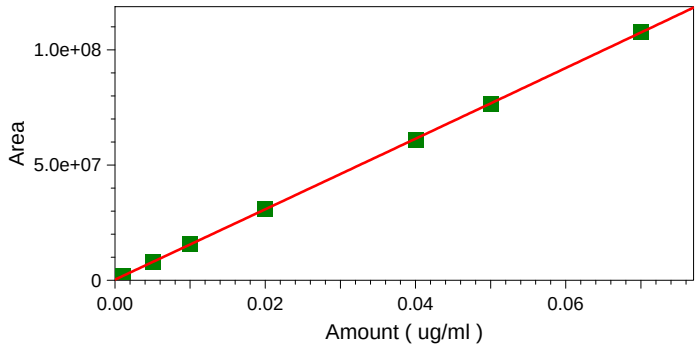
| | | |
|---|---|---|
| Last Area Residual | 0.000119247 | -0.000155089 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 73002786 | 103700653 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:38
User: JJY
Instrument: Semi 1 (Offline)

DIELDRIN (back detector)
Average RF: 1.58373e+009 RF StDev: 8.52332e+007 RF %RSD: 5.38180
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.22694e+008x^2 + 1.52366e+009x + 283840.
Goodness of fit (r^2): 0.999944

Peak: DIELDRIN -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1764932 | 8055655 | 15708832 | 30857050 | 60978947 |
| RF | 1764932000 | 1611131000 | 1570883200 | 1542852500 | 1524473675 |
| Last Area | | | | | |
| Residual | 2.80168e-005 | -9.86456e-005 | -0.000115375 | -3.32604e-005 | 0.000292013 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1764932 | 8055655 | 15708832 | 30857050 | 60978947 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 76470933 | 107969653 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:38
User: JJY
Instrument: Semi 1 (Offline)

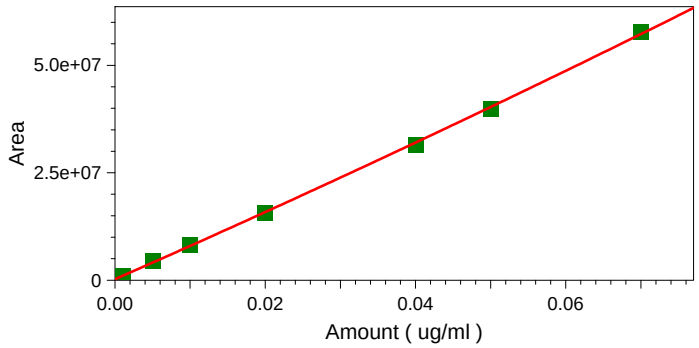
| | | |
|---|---|---|
| RF | 1529418660 | 1542423614.28571 |
| Last Area Residual | 0.000197193 | -0.000277824 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 76470933 | 107969653 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:40
User: JJY
Instrument: Semi 1 (Offline)

ENDRIN (back detector)
Average RF: 8.33325e+008 RF StDev: 5.23392e+007 RF %RSD: 6.28076
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 6.71333e+008x^2 + 7.67769e+008x + 233847.
Goodness of fit (r^2): 0.999597

Peak: ENDRIN -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 922081 | 4422166 | 8316473 | 15670665 | 31438122 |
| RF | 922081000 | 884433200 | 831647300 | 783533250 | 785953050 |
| Last Area Residual | 0.000104293 | -0.000429407 | -0.000432259 | 0.000235495 | 0.000707201 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 922081 | 4422166 | 8316473 | 15670665 | 31438122 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 39952286 | 57860763 |

**Calibration Report**

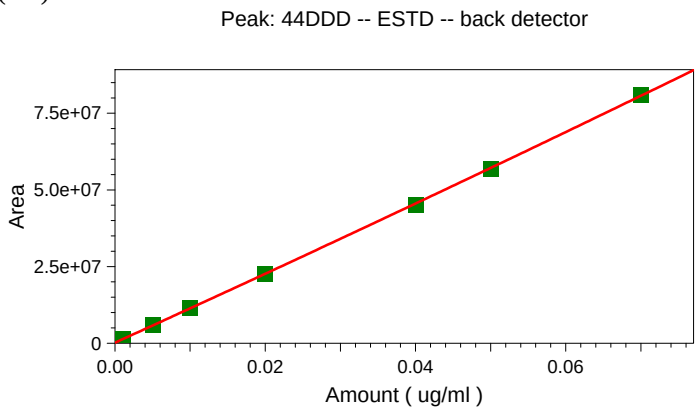
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:40
User: JJY
Instrument: Semi 1 (Offline)

| | | |
|---|---|---|
| RF | 799045720 | 826582328.571429 |
| Last Area Residual | 0.000417359 | -0.000688414 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 39952286 | 57860763 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:41
User: JJY
Instrument: Semi 1 (Offline)

44DDD (back detector)
Average RF: 1.16690e+009 RF StDev: 4.89181e+007 RF %RSD: 4.19215
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 5.42460e+008x^2 + 1.11192e+009x + 199517.
Goodness of fit (r^2): 0.999903




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1268214 | 5921186 | 11608721 | 22617183 | 45103791 |
| RF | 1268214000 | 1184237200 | 1160872100 | 1130859150 | 1127594775 |
| Last Area | | | | | |
| Residual | 3.93219e-005 | -0.000132905 | -0.000209963 | 3.3263e-005 | 0.000381298 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1268214 | 5921186 | 11608721 | 22617183 | 45103791 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 56891613 | 81107302 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:41
User: JJY
Instrument: Semi 1 (Offline)

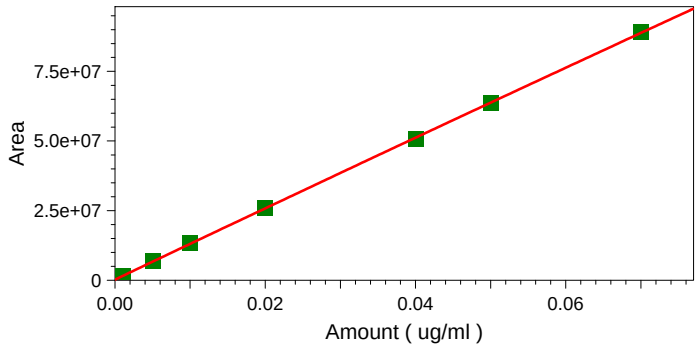
| | | |
|---|---|---|
| RF | 1137832260 | 1158675742.85714 |
| Last Area Residual | 0.000222999 | -0.00034962 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 56891613 | 81107302 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:43
User: JJY
Instrument: Semi 1 (Offline)

ENDOII (back detector)
Average RF: 1.32371e+009 RF StDev: 7.15145e+007 RF %RSD: 5.40259
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = -2.77521e+008x^2 + 1.28475e+009x + 234166.
Goodness of fit (r^2): 0.999870

Peak: ENDOII -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1457195 | 6890623 | 13307254 | 25795080 | 50583830 |
| RF | 1457195000 | 1378124600 | 1330725400 | 1289754000 | 1264595750 |
| Last Area Residual | 4.78433e-005 | -0.000186954 | -0.000198079 | 1.80713e-005 | 0.000472156 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1457195 | 6890623 | 13307254 | 25795080 | 50583830 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 63474117 | 89325060 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:43
User: JJY
Instrument: Semi 1 (Offline)

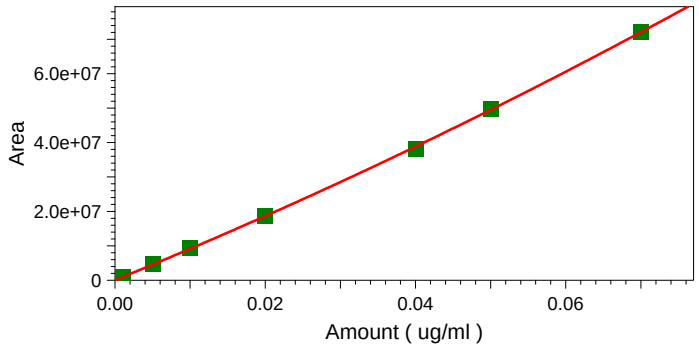
| | | |
|---|---|---|
| RF | 1269482340 | 1276072285.71429 |
| Last Area Residual | 0.000241511 | -0.000416173 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 63474117 | 89325060 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:45
User: JJY
Instrument: Semi 1 (Offline)

44DDT (back detector)
Average RF: 9.54177e+008 RF StDev: 4.40040e+007 RF %RSD: 4.61173
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.98733e+009x^2 + 8.89679e+008x + 43347.2
Goodness of fit (r^2): 0.999892

Peak: 44DDT -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 906695 | 4661468 | 9275650 | 18626054 | 38218120 |
| RF | 906695000 | 932293600 | 927565000 | 931302700 | 955453000 |
| Last Area Residual | 3.16909e-005 | -0.000131941 | -0.000147117 | 5.9955e-006 | 0.000565256 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 906695 | 4661468 | 9275650 | 18626054 | 38218120 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 49686550 | 72253787 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:45
User: JJY
Instrument: Semi 1 (Offline)

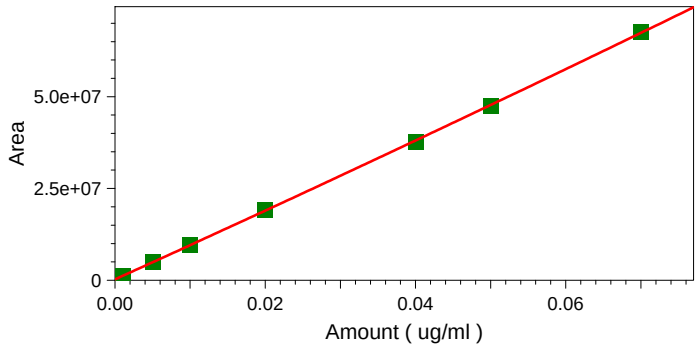
| | | |
|---|---|---|
| RF | 993731000 | 1032196957.14286 |
| Last Area Residual | -0.000175344 | -0.000166883 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 49686550 | 72253787 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:46
User: JJY
Instrument: Semi 1 (Offline)

ENDRINALDEH (back detector)
Average RF: 9.88281e+008 RF StDev: 6.74101e+007 RF %RSD: 6.82094
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 4.63254e+008x^2 + 9.26712e+008x + 244402.
Goodness of fit (r^2): 0.999869

Peak: ENDRINALDEH -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1134332 | 5003556 | 9725997 | 19052170 | 37543935 |
| RF | 1134332000 | 1000711200 | 972599700 | 952608500 | 938598375 |
| Last Area | | | | | |
| Residual | 4.01512e-005 | -0.00012241 | -0.000179636 | -9.33337e-005 | 0.000529464 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1134332 | 5003556 | 9725997 | 19052170 | 37543935 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 47555605 | 67760585 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:46
User: JJY
Instrument: Semi 1 (Offline)

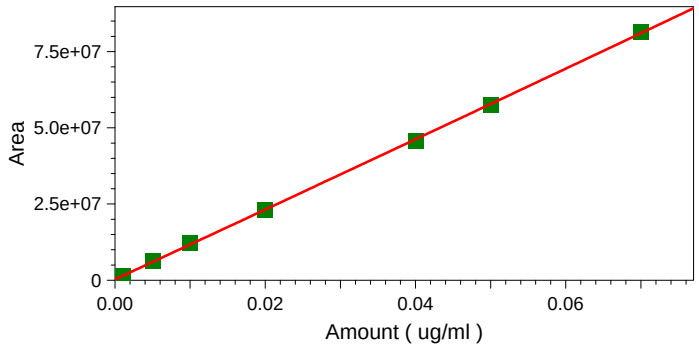
| | | |
|---|---|---|
| RF | 951112100 | 968008357.142857 |
| Last Area Residual | 0.000187606 | -0.000379533 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 47555605 | 67760585 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:48
User: JJY
Instrument: Semi 1 (Offline)

ENDOSULFATE (back detector)
Average RF: 1.20170e+009 RF StDev: 7.36316e+007 RF %RSD: 6.12729
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.59532e+008x^2 + 1.14275e+009x + 273339.
Goodness of fit (r^2): 0.999811

Peak: ENDOSULFATE -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1339746 | 6293665 | 12054012 | 23029663 | 45610914 |
| RF | 1339746000 | 1258733000 | 1205401200 | 1151483150 | 1140272850 |
| Last Area Residual | 6.69275e-005 | -0.000264413 | -0.000294266 | 0.000141396 | 0.000543226 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1339746 | 6293665 | 12054012 | 23029663 | 45610914 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 57527606 | 81599626 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:48
User: JJY
Instrument: Semi 1 (Offline)

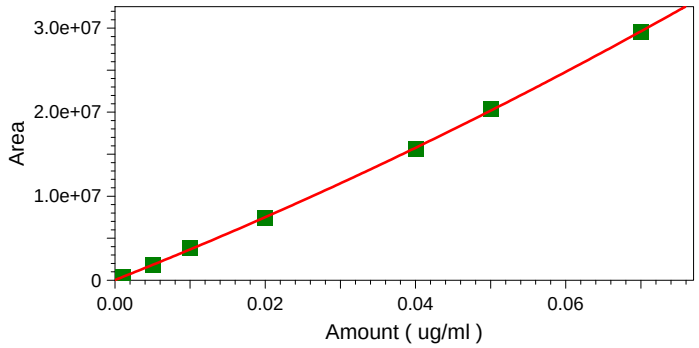
| | | |
|---|---|---|
| RF | 1150552120 | 1165708942.85714 |
| Last Area Residual | 0.000243417 | -0.000473852 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 57527606 | 81599626 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:50
User: JJY
Instrument: Semi 1 (Offline)

METHOXYCL (back detector)
Average RF: 3.88031e+008 RF StDev: 2.06267e+007 RF %RSD: 5.31574
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 9.87182e+008x^2 + 3.53543e+008x + 33873.6
Goodness of fit (r^2): 0.999889

Peak: METHOXYCL -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 382422 | 1827793 | 3789216 | 7383785 | 15609713 |
| RF | 382422000 | 365558600 | 378921600 | 369189250 | 390242825 |
| Last Area Residual | 1.68257e-005 | -4.19879e-006 | -0.000324396 | 0.000294896 | 0.000336345 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 382422 | 1827793 | 3789216 | 7383785 | 15609713 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 20351495 | 29599590 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:50
User: JJY
Instrument: Semi 1 (Offline)

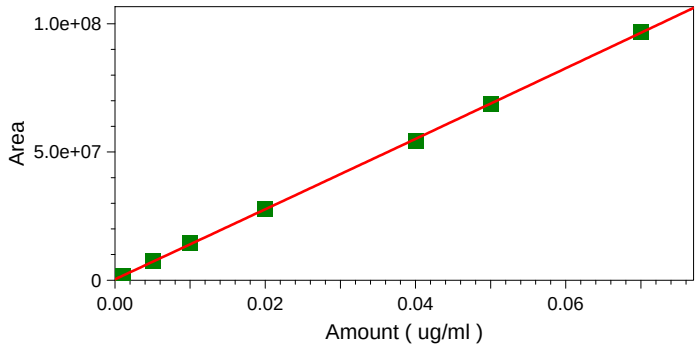
| | | |
|---|---|---|
| RF | 407029900 | 422851285.714286 |
| Last Area Residual | -0.00038116 | 3.95974e-005 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 20351495 | 29599590 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:52
User: JJY
Instrument: Semi 1 (Offline)

ENDRINKETONE (back detector)
Average RF: 1.43914e+009 RF StDev: 1.04821e+008 RF %RSD: 7.28359
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 1.45664e+008x^2 + 1.36312e+009x + 362039.
Goodness of fit (r^2): 0.999872

Peak: ENDRINKETONE -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.001 | 0.005 | 0.01 | 0.02 | 0.04 |
| Area | 1656035 | 7418262 | 14349369 | 27583714 | 54432004 |
| RF | 1656035000 | 1483652400 | 1434936900 | 1379185700 | 1360800100 |
| Last Area | | | | | |
| Residual | 5.08036e-005 | -0.000173678 | -0.000250064 | 7.22543e-005 | 0.000500284 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1656035 | 7418262 | 14349369 | 27583714 | 54432004 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 0.05 | 0.07 |
| Area | 68673695 | 97010558 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:52
User: JJY
Instrument: Semi 1 (Offline)

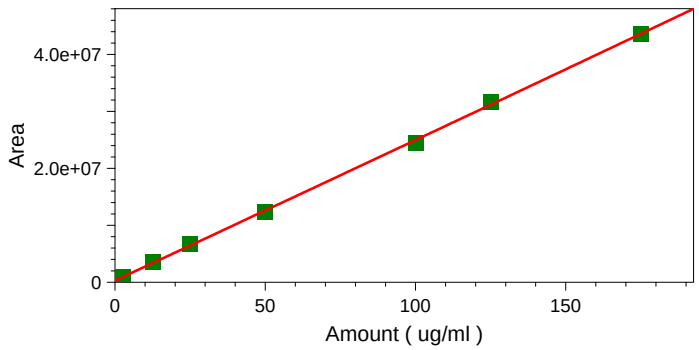
| | | |
|---|---|---|
| RF | 1373473900 | 1385865114.28571 |
| Last Area Residual | 0.000151202 | -0.000373416 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 68673695 | 97010558 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:53
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (back detector)
Average RF: 269706. RF StDev: 36049.9 RF %RSD: 13.3664
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Quadratic
y = 12.4458x^2 + 245454.x + 295218.
Goodness of fit (r^2): 0.999566

Peak: SURRDCBPEST -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 2.5 | 12.5 | 25 | 50 | 100 |
| Area | 865467 | 3488482 | 6728146 | 12355772 | 24399140 |
| RF | 346186.8 | 279078.56 | 269125.84 | 247115.44 | 243991.4 |
| Last Area Residual | 0.17703 | -0.501074 | -1.17359 | 0.986028 | 2.28261 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 865467 | 3488482 | 6728146 | 12355772 | 24399140 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\013.dat | C:\Instarch\Semi1\data\111419pstic\014.dat | C:\Instarch\Semi1\data\111419pstic\015.dat | C:\Instarch\Semi1\data\111419pstic\016.dat | C:\Instarch\Semi1\data\111419pstic\017.dat |
| Rep 1 Sample ID | PEST ICAL 1 PP6024 | PEST ICAL 2 PP6025 | PEST ICAL 3 PP6026 | PEST ICAL 4 PP6027 | PEST ICAL 5 PP6028 |
| Rep 1 Calib. Time | 11/15/2019 11:47:39 | 11/15/2019 11:47:50 | 11/15/2019 11:48:02 | 11/15/2019 11:48:13 | 11/15/2019 11:48:23 |

| | Level 6 | Level 7 |
|---|---|---|
| Amount | 125 | 175 |
| Area | 31606113 | 43679520 |

**Calibration Report**

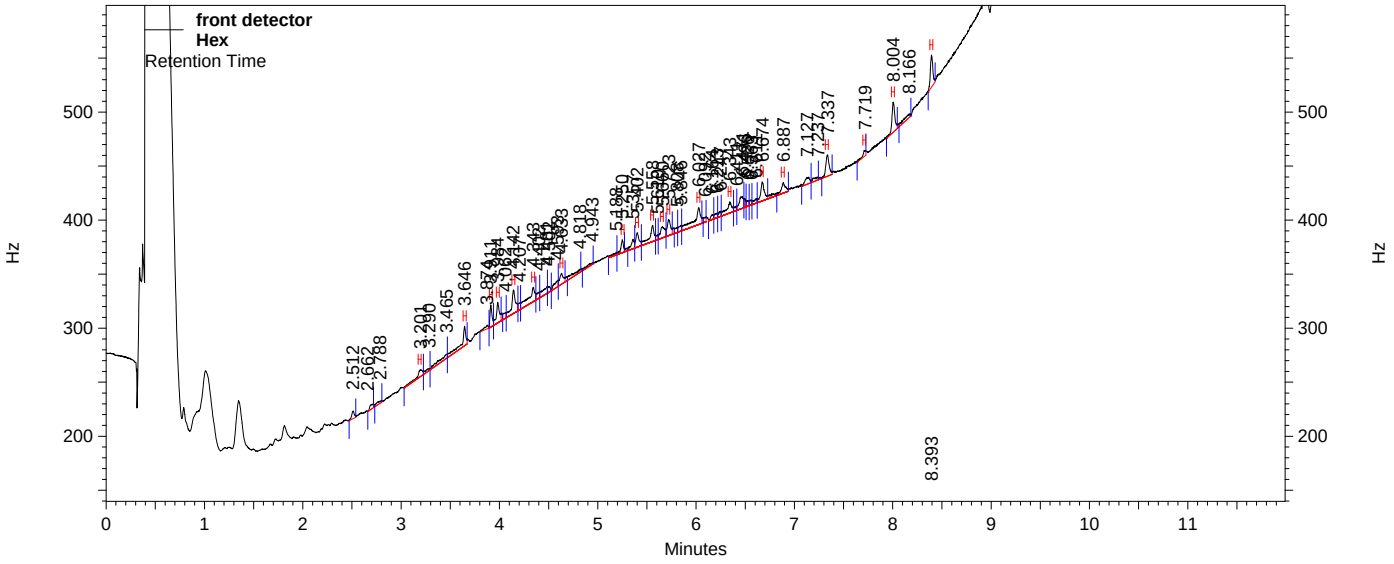
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
Print Time: 11/18/2019 09:08:53
User: JJY
Instrument: Semi 1 (Offline)

| | | |
|---|---|---|
| RF | 252848.904 | 249597.257142857 |
| Last Area Residual | -1.74882 | -0.195252 |
| Rep StDev | | |
| Rep %RSD | | |
| Rep 1 Area | 31606113 | 43679520 |
| Rep 1 User | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\018.dat | C:\Instarch\Semi1\data\111419pstic\019.dat |
| Rep 1 Sample ID | PEST ICAL 6 PP6029 | PEST ICAL 7 PP6030 |
| Rep 1 Calib. Time | 11/15/2019 11:48:33 | 11/15/2019 11:48:45 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\012.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** Hex
**Acquired:** 11/14/2019 19:00:07
**Printed:** 11/18/2019 08:41:48

**Data Summary: {Data Description}**



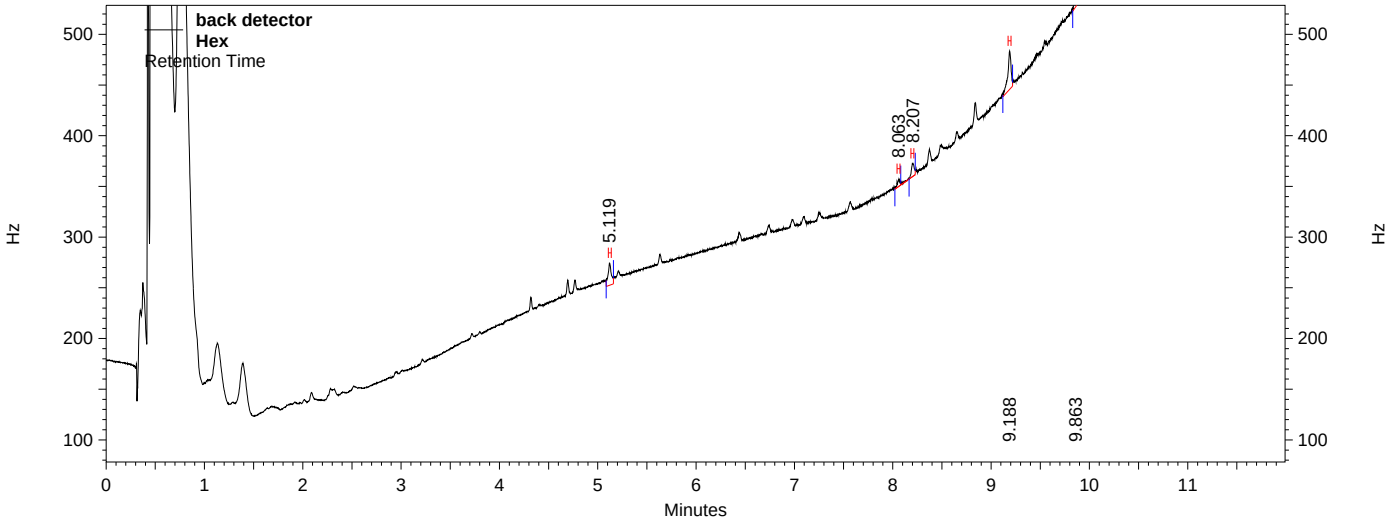

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.201 | 187782 | 0.0000 |
| ALPHABHC | 3.646 | 414396 | 0.0002 |
| LINDANE | 3.911 | 222607 | 0.0001 |
| BETABHC | 3.984 | 316499 | 0.0001 |
| DELTABHC | 4.142 | 483831 | 0.0002 |
| HEPTACHLOR | 4.343 | 480427 | 0.0000 |
| ALDRIN | 4.633 | 203690 | 0.0000 |
| HEPTAEPOX | 5.250 | 164688 | 0.0000 |
| GAMMACHLOR | 5.402 | 237762 | 0.0000 |
| ALPHACHLOR | 5.558 | 371934 | 0.0000 |
| 44DDE | 5.660 | 261179 | 0.0001 |
| ENDOI | 5.723 | 274100 | 0.0000 |
| DIELDRIN | 6.027 | 546653 | 0.0001 |
| ENDRIN | 6.343 | 291214 | 0.0000 |
| 44DDD | | | 0.0000 BDL |
| ENDOII | 6.674 | 363220 | 0.0000 |
| 44DDT | 6.887 | 234181 | 0.0002 |
| ENDRINALDEH | 7.337 | 358394 | 0.0001 |
| METHOXYCL | 7.719 | 83339 | 0.0003 |
| ENDOSULFATE | 8.004 | 443606 | 0.0001 |
| ENDRINKETONE | 8.393 | 398453 | 0.0001 |
| SURRDCBPEST | 9.710 | 166069 | 0.0000 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\012.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** Hex
**Acquired:** 11/14/2019 19:00:07
**Printed:** 11/18/2019 08:41:48

**Data Summary: {Data Description}**



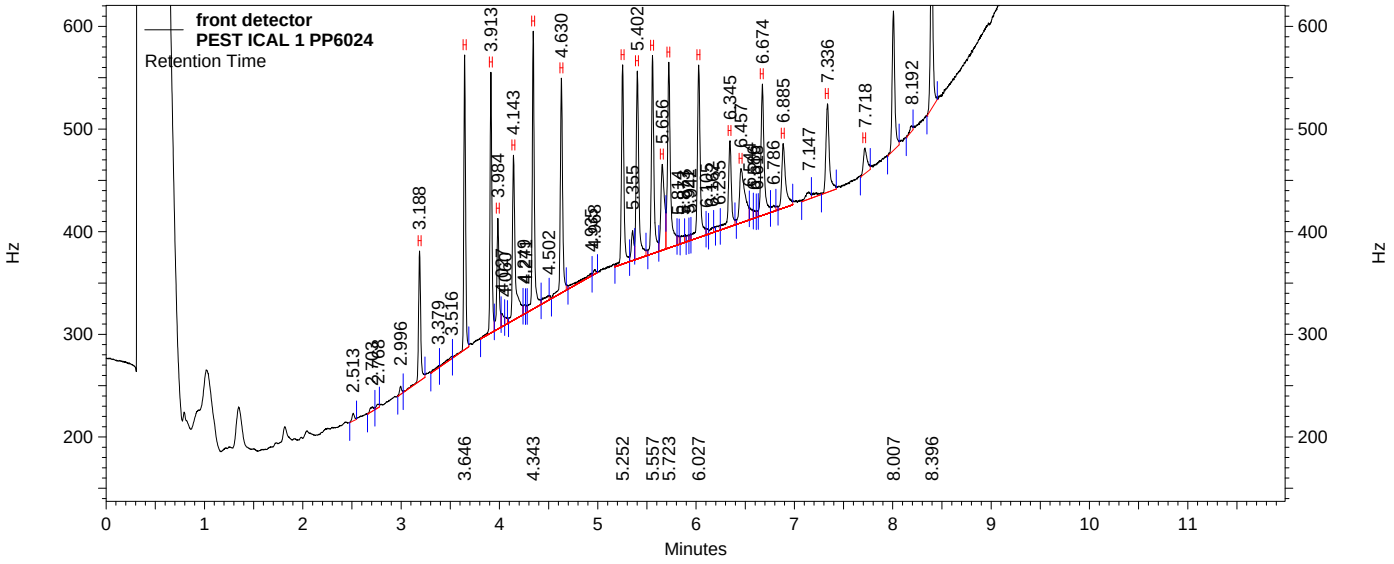

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | | | 0.0000 BDL |
| ALPHABHC | | | 0.0000 BDL |
| LINDANE | | | 0.0000 BDL |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | 5.119 | 398282 | 0.0000 |
| HEPTACHLOR | | | 0.0000 BDL |
| ALDRIN | | | 0.0000 BDL |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | | | 0.0000 BDL |
| ENDOI | | | 0.0000 BDL |
| 44DDE | | | 0.0000 BDL |
| DIELDRIN | | | 0.0000 BDL |
| ENDRIN | 8.063 | 105376 | 0.0000 |
| 44DDD | 8.207 | 200299 | 0.0000 |
| ENDOII | | | 0.0000 BDL |
| 44DDT | | | 0.0000 BDL |
| ENDRINALDEH | | | 0.0000 BDL |
| ENDOSULFATE | 9.188 | 681390 | 0.0004 |
| METHOXYCL | | | 0.0000 BDL |
| ENDRINKETONE | 9.863 | 318280 | 0.0000 |
| SURRDCBPEST | | | 0.0000 BDL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\013.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 1 PP6024
**Acquired:** 11/14/2019 19:16:27
**Printed:** 11/18/2019 08:41:50

**Data Summary: {Data Description}**



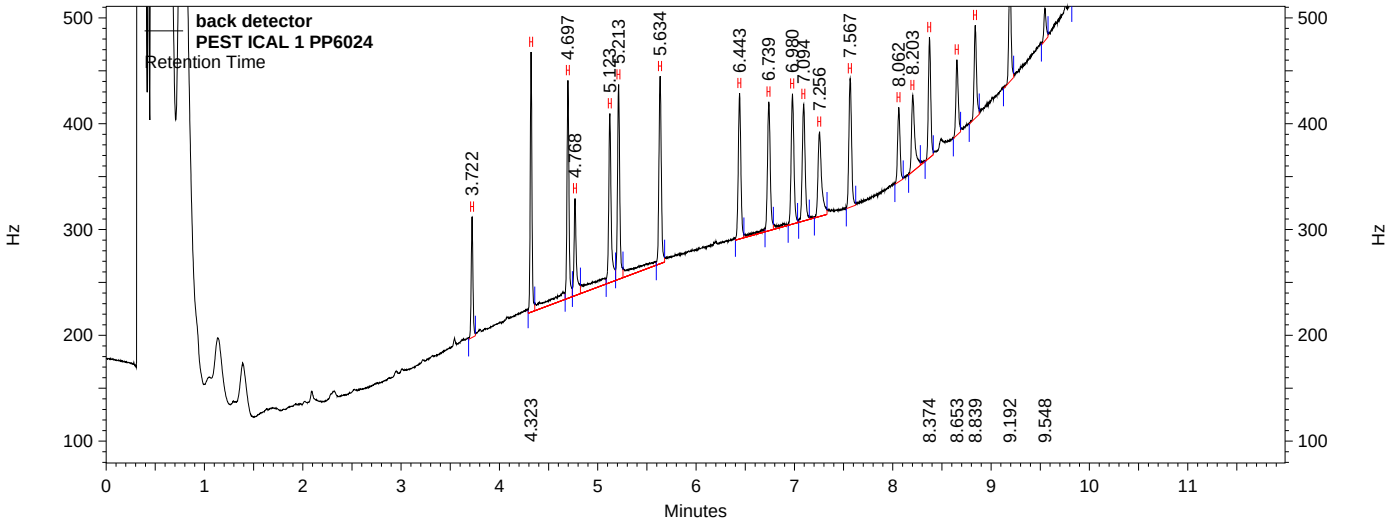

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.188 | 1476283 | 2.5000 CAL |
| ALPHABHC | 3.646 | 2707729 | 0.0010 CAL |
| LINDANE | 3.913 | 2542287 | 0.0010 CAL |
| BETABHC | 3.984 | 1313467 | 0.0010 CAL |
| DELTABHC | 4.143 | 2520638 | 0.0010 CAL |
| HEPTACHLOR | 4.343 | 3108733 | 0.0010 CAL |
| ALDRIN | 4.630 | 2575381 | 0.0010 CAL |
| HEPTAEPOX | 5.252 | 2560420 | 0.0010 CAL |
| GAMMACHLOR | 5.402 | 2642693 | 0.0010 CAL |
| ALPHACHLOR | 5.557 | 2658961 | 0.0010 CAL |
| 44DDE | 5.656 | 1640328 | 0.0010 CAL |
| ENDOI | 5.723 | 2925453 | 0.0010 CAL |
| DIELDRIN | 6.027 | 2591591 | 0.0010 CAL |
| ENDRIN | 6.345 | 1374372 | 0.0010 CAL |
| 44DDD | 6.457 | 1567359 | 0.0010 CAL |
| ENDOII | 6.674 | 2173974 | 0.0010 CAL |
| 44DDT | 6.885 | 1334860 | 0.0010 CAL |
| ENDRINALDEH | 7.336 | 1566182 | 0.0010 CAL |
| METHOXYCL | 7.718 | 503421 | 0.0010 CAL |
| ENDOSULFATE | 8.007 | 1947616 | 0.0010 CAL |
| ENDRINKETONE | 8.396 | 2351911 | 0.0010 CAL |
| SURRDCBPEST | 9.706 | 1134514 | 2.5000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\013.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 1 PP6024
**Acquired:** 11/14/2019 19:16:27
**Printed:** 11/18/2019 08:41:50

**Data Summary: {Data Description}**



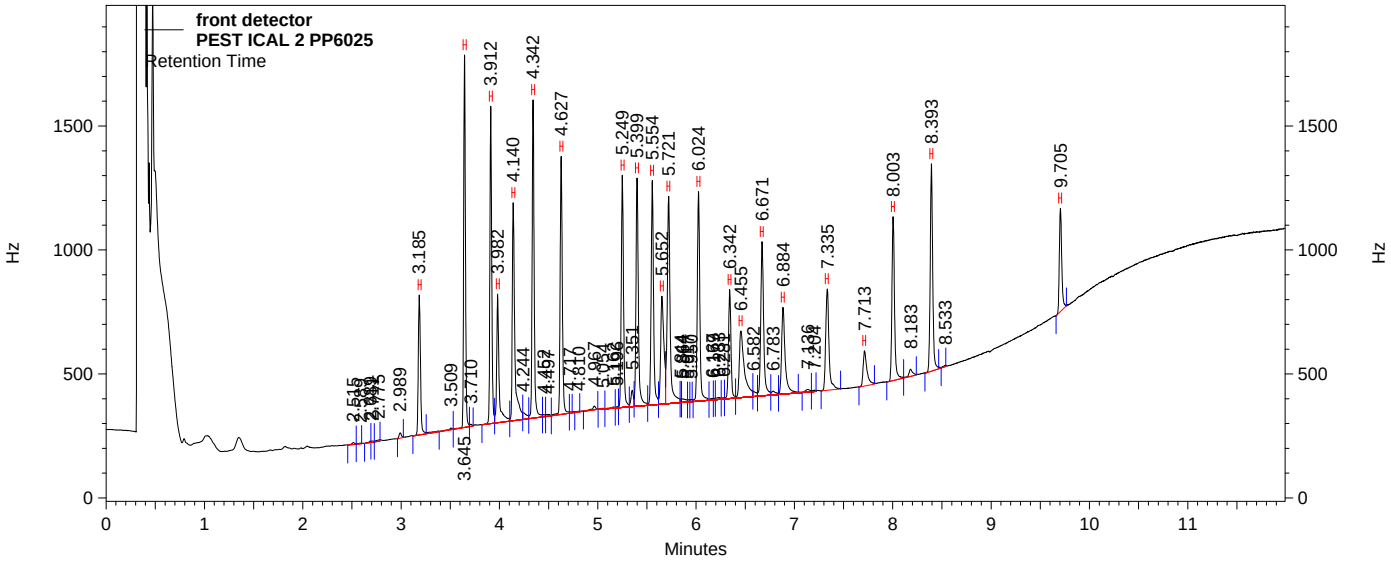

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.722 | 1088249 | 2.5000 CAL |
| ALPHABHC | 4.323 | 2285033 | 0.0010 CAL |
| LINDANE | 4.697 | 2220508 | 0.0010 CAL |
| BETABHC | 4.768 | 1158351 | 0.0010 CAL |
| DELTABHC | 5.123 | 2119565 | 0.0010 CAL |
| HEPTACHLOR | 5.213 | 2256826 | 0.0010 CAL |
| ALDRIN | 5.634 | 2253590 | 0.0010 CAL |
| HEPTAEPOX | 6.443 | 1927423 | 0.0010 CAL |
| GAMMACHLOR | 6.739 | 1814927 | 0.0010 CAL |
| ALPHACHLOR | 6.980 | 1823791 | 0.0010 CAL |
| ENDOI | 7.094 | 1733114 | 0.0010 CAL |
| 44DDE | 7.256 | 1561402 | 0.0010 CAL |
| DIELDRIN | 7.567 | 1764932 | 0.0010 CAL |
| ENDRIN | 8.062 | 922081 | 0.0010 CAL |
| 44DDD | 8.203 | 1268214 | 0.0010 CAL |
| ENDOII | 8.374 | 1457195 | 0.0010 CAL |
| 44DDT | 8.653 | 906695 | 0.0010 CAL |
| ENDRINALDEH | 8.839 | 1134332 | 0.0010 CAL |
| ENDOSULFATE | 9.192 | 1339746 | 0.0010 CAL |
| METHOXYCL | 9.548 | 382422 | 0.0010 CAL |
| ENDRINKETONE | 9.862 | 1656035 | 0.0010 CAL |
| SURRDCBPEST | 11.416 | 865467 | 2.5000 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\014.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 2 PP6025
**Acquired:** 11/14/2019 19:32:50
**Printed:** 11/18/2019 08:41:53

**Data Summary: {Data Description}**



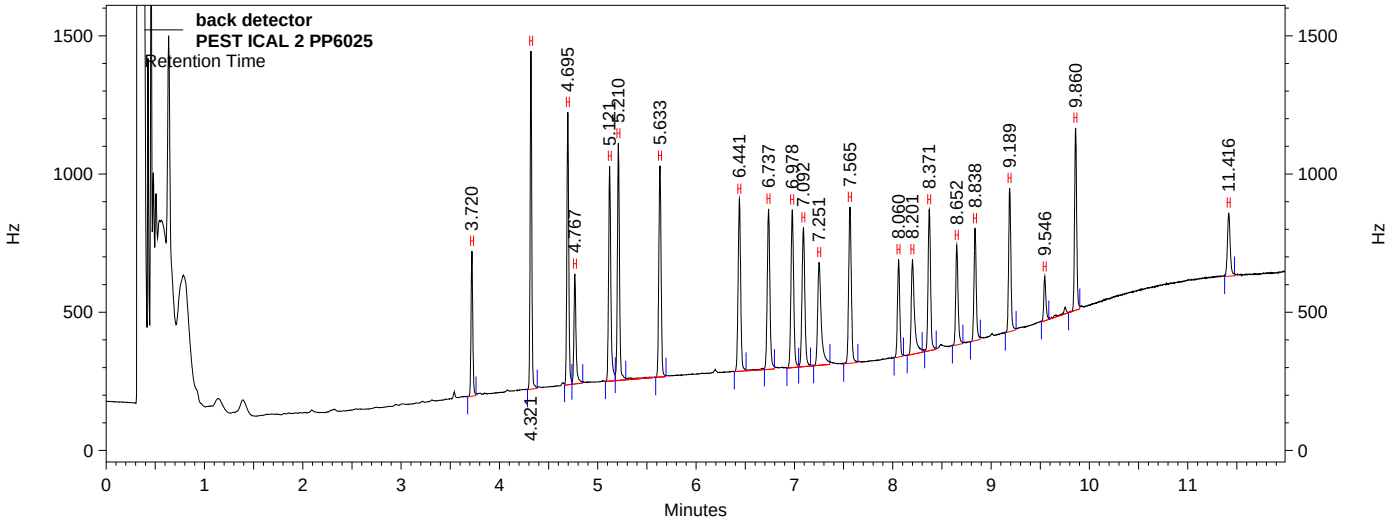

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.185 | 6745632 | 12.5000 CAL |
| ALPHABHC | 3.645 | 14138510 | 0.0050 CAL |
| LINDANE | 3.912 | 12539000 | 0.0050 CAL |
| BETABHC | 3.982 | 6767777 | 0.0050 CAL |
| DELTABHC | 4.140 | 12100930 | 0.0050 CAL |
| HEPTACHLOR | 4.342 | 14155791 | 0.0050 CAL |
| ALDRIN | 4.627 | 12139642 | 0.0050 CAL |
| HEPTAEPOX | 5.249 | 11470422 | 0.0050 CAL |
| GAMMACHLOR | 5.399 | 11873923 | 0.0050 CAL |
| ALPHACHLOR | 5.554 | 11791848 | 0.0050 CAL |
| 44DDE | 5.652 | 7699873 | 0.0050 CAL |
| ENDOI | 5.721 | 13240083 | 0.0050 CAL |
| DIELDRIN | 6.024 | 11400138 | 0.0050 CAL |
| ENDRIN | 6.342 | 5834350 | 0.0050 CAL |
| 44DDD | 6.455 | 7388432 | 0.0050 CAL |
| ENDOII | 6.671 | 9829203 | 0.0050 CAL |
| 44DDT | 6.884 | 6755633 | 0.0050 CAL |
| ENDRINALDEH | 7.335 | 7255463 | 0.0050 CAL |
| METHOXYCL | 7.713 | 2910283 | 0.0050 CAL |
| ENDOSULFATE | 8.003 | 9289906 | 0.0050 CAL |
| ENDRINKETONE | 8.393 | 11137395 | 0.0050 CAL |
| SURRDCBPEST | 9.705 | 5363297 | 12.5000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\014.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 2 PP6025
**Acquired:** 11/14/2019 19:32:50
**Printed:** 11/18/2019 08:41:53

**Data Summary: {Data Description}**



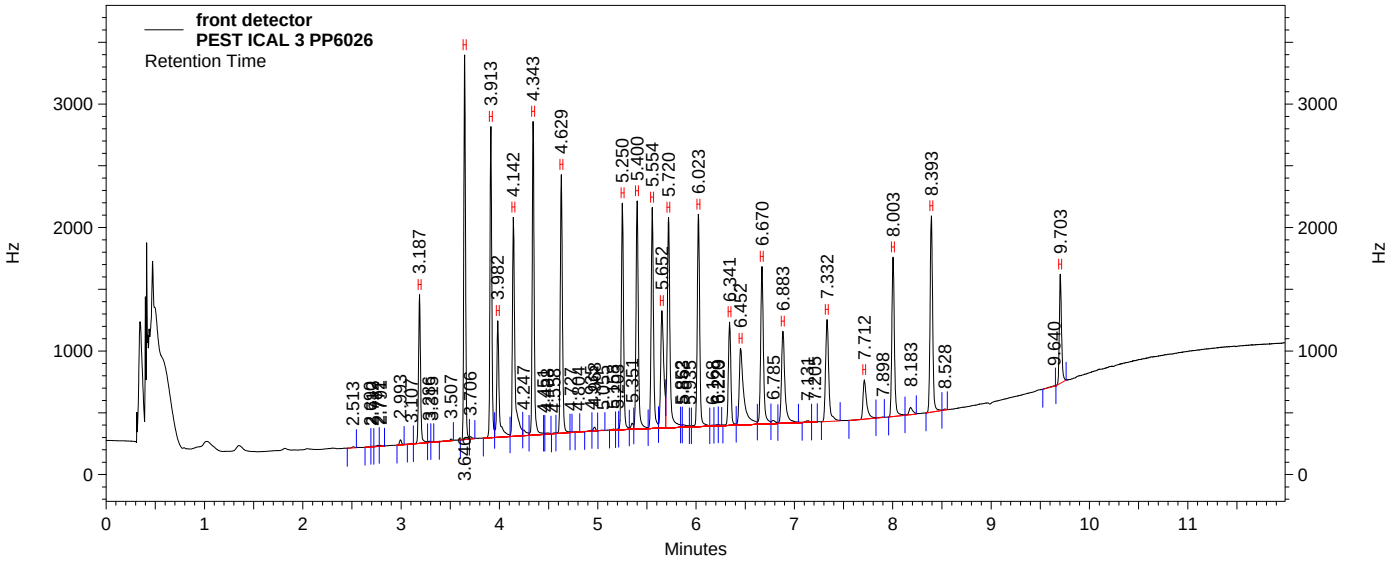

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 5066054 | 12.5000 CAL |
| ALPHABHC | 4.321 | 10959081 | 0.0050 CAL |
| LINDANE | 4.695 | 9918346 | 0.0050 CAL |
| BETABHC | 4.767 | 4540032 | 0.0050 CAL |
| DELTABHC | 5.121 | 9465950 | 0.0050 CAL |
| HEPTACHLOR | 5.210 | 9852145 | 0.0050 CAL |
| ALDRIN | 5.633 | 9464282 | 0.0050 CAL |
| HEPTAEPOX | 6.441 | 8628971 | 0.0050 CAL |
| GAMMACHLOR | 6.737 | 8277807 | 0.0050 CAL |
| ALPHACHLOR | 6.978 | 8258324 | 0.0050 CAL |
| ENDOI | 7.092 | 7785358 | 0.0050 CAL |
| 44DDE | 7.251 | 7329397 | 0.0050 CAL |
| DIELDRIN | 7.565 | 8055655 | 0.0050 CAL |
| ENDRIN | 8.060 | 4422166 | 0.0050 CAL |
| 44DDD | 8.201 | 5921186 | 0.0050 CAL |
| ENDOII | 8.371 | 6890623 | 0.0050 CAL |
| 44DDT | 8.652 | 4661468 | 0.0050 CAL |
| ENDRINALDEH | 8.838 | 5003556 | 0.0050 CAL |
| ENDOSULFATE | 9.189 | 6293665 | 0.0050 CAL |
| METHOXYCL | 9.546 | 1827793 | 0.0050 CAL |
| ENDRINKETONE | 9.860 | 7418262 | 0.0050 CAL |
| SURRDCBPEST | 11.416 | 3488482 | 12.5000 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\015.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 3 PP6026
**Acquired:** 11/14/2019 19:49:14
**Printed:** 11/18/2019 08:41:56

**Data Summary: {Data Description}**



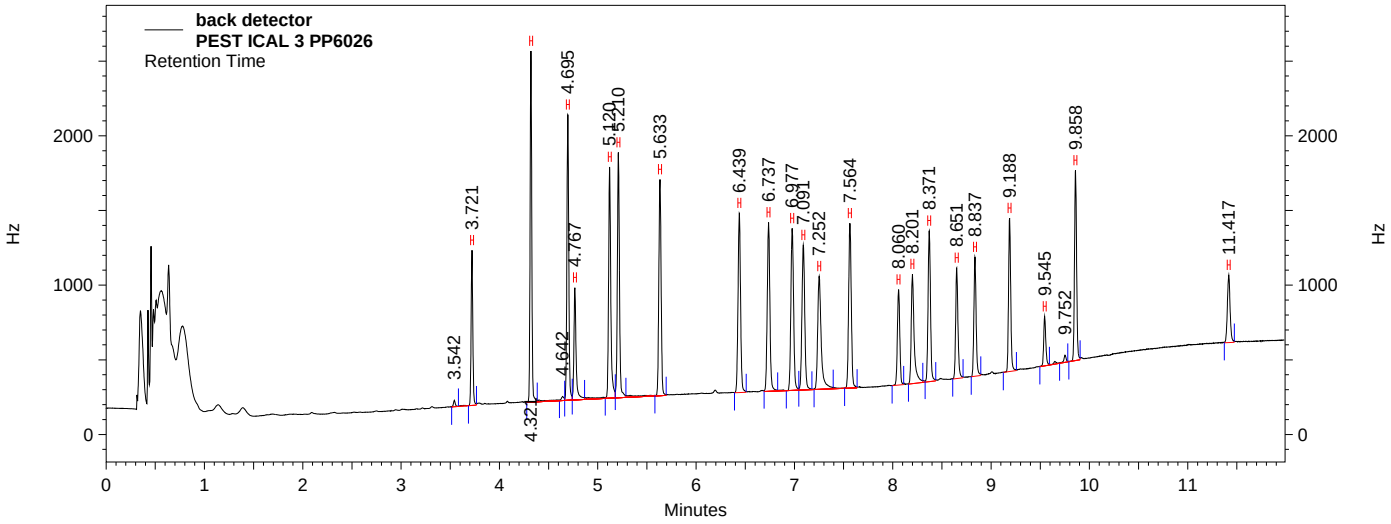

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.187 | 13093308 | 25.0000 CAL |
| ALPHABHC | 3.646 | 28568710 | 0.0100 CAL |
| LINDANE | 3.913 | 24555900 | 0.0100 CAL |
| BETABHC | 3.982 | 12636259 | 0.0100 CAL |
| DELTABHC | 4.142 | 23635142 | 0.0100 CAL |
| HEPTACHLOR | 4.343 | 27346170 | 0.0100 CAL |
| ALDRIN | 4.629 | 23957948 | 0.0100 CAL |
| HEPTAEPOX | 5.250 | 22060751 | 0.0100 CAL |
| GAMMACHLOR | 5.400 | 23218433 | 0.0100 CAL |
| ALPHACHLOR | 5.554 | 22998674 | 0.0100 CAL |
| 44DDE | 5.652 | 16057765 | 0.0100 CAL |
| ENDOI | 5.720 | 25065377 | 0.0100 CAL |
| DIELDRIN | 6.023 | 22659197 | 0.0100 CAL |
| ENDRIN | 6.341 | 11232811 | 0.0100 CAL |
| 44DDD | 6.452 | 15424878 | 0.0100 CAL |
| ENDOII | 6.670 | 19339568 | 0.0100 CAL |
| 44DDT | 6.883 | 13909978 | 0.0100 CAL |
| ENDRINALDEH | 7.332 | 14351663 | 0.0100 CAL |
| METHOXYCL | 7.712 | 6169586 | 0.0100 CAL |
| ENDOSULFATE | 8.003 | 18137708 | 0.0100 CAL |
| ENDRINKETONE | 8.393 | 22058685 | 0.0100 CAL |
| SURRDCBPEST | 9.703 | 10358026 | 25.0000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\015.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 3 PP6026
**Acquired:** 11/14/2019 19:49:14
**Printed:** 11/18/2019 08:41:56

**Data Summary: {Data Description}**



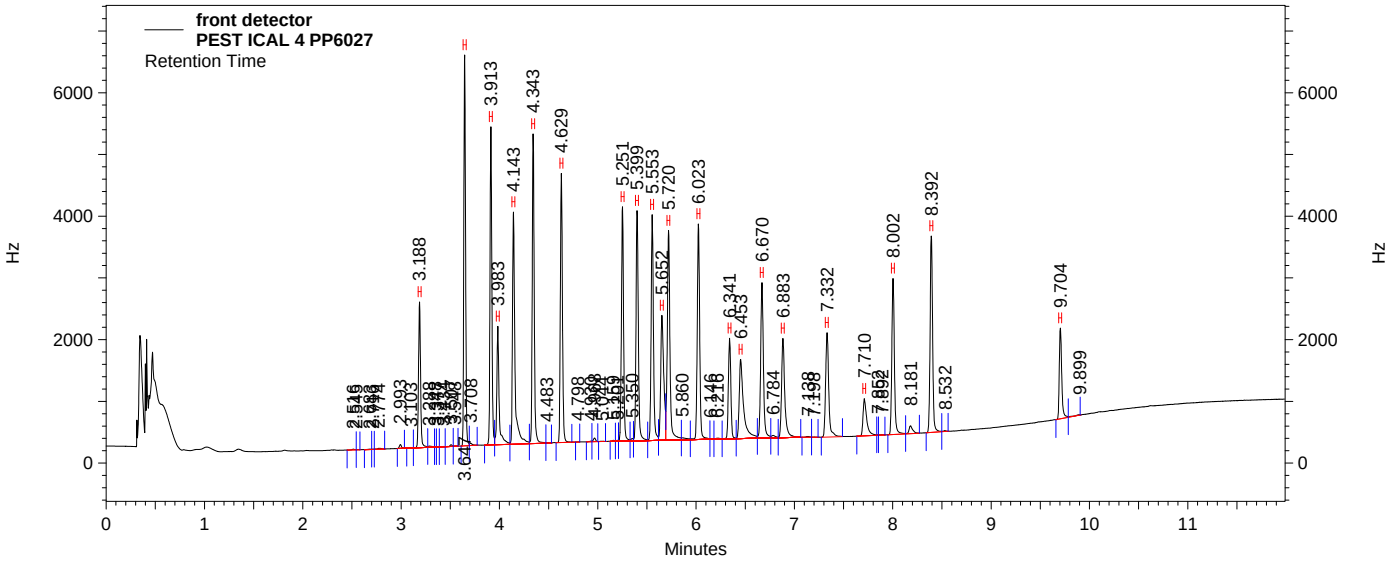

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.721 | 9625480 | 25.0000 CAL |
| ALPHABHC | 4.321 | 21469964 | 0.0100 CAL |
| LINDANE | 4.695 | 19387391 | 0.0100 CAL |
| BETABHC | 4.767 | 8917065 | 0.0100 CAL |
| DELTABHC | 5.120 | 18346043 | 0.0100 CAL |
| HEPTACHLOR | 5.210 | 18925830 | 0.0100 CAL |
| ALDRIN | 5.633 | 17843036 | 0.0100 CAL |
| HEPTAEPOX | 6.439 | 16518367 | 0.0100 CAL |
| GAMMACHLOR | 6.737 | 16060587 | 0.0100 CAL |
| ALPHACHLOR | 6.977 | 15845186 | 0.0100 CAL |
| ENDOI | 7.091 | 15003548 | 0.0100 CAL |
| 44DDE | 7.252 | 14559678 | 0.0100 CAL |
| DIELDRIN | 7.564 | 15708832 | 0.0100 CAL |
| ENDRIN | 8.060 | 8316473 | 0.0100 CAL |
| 44DDD | 8.201 | 11608721 | 0.0100 CAL |
| ENDOII | 8.371 | 13307254 | 0.0100 CAL |
| 44DDT | 8.651 | 9275650 | 0.0100 CAL |
| ENDRINALDEH | 8.837 | 9725997 | 0.0100 CAL |
| ENDOSULFATE | 9.188 | 12054012 | 0.0100 CAL |
| METHOXYCL | 9.545 | 3789216 | 0.0100 CAL |
| ENDRINKETONE | 9.858 | 14349369 | 0.0100 CAL |
| SURRDCBPEST | 11.417 | 6728146 | 25.0000 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\016.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 4 PP6027
**Acquired:** 11/14/2019 20:05:34
**Printed:** 11/18/2019 08:41:59

**Data Summary: {Data Description}**



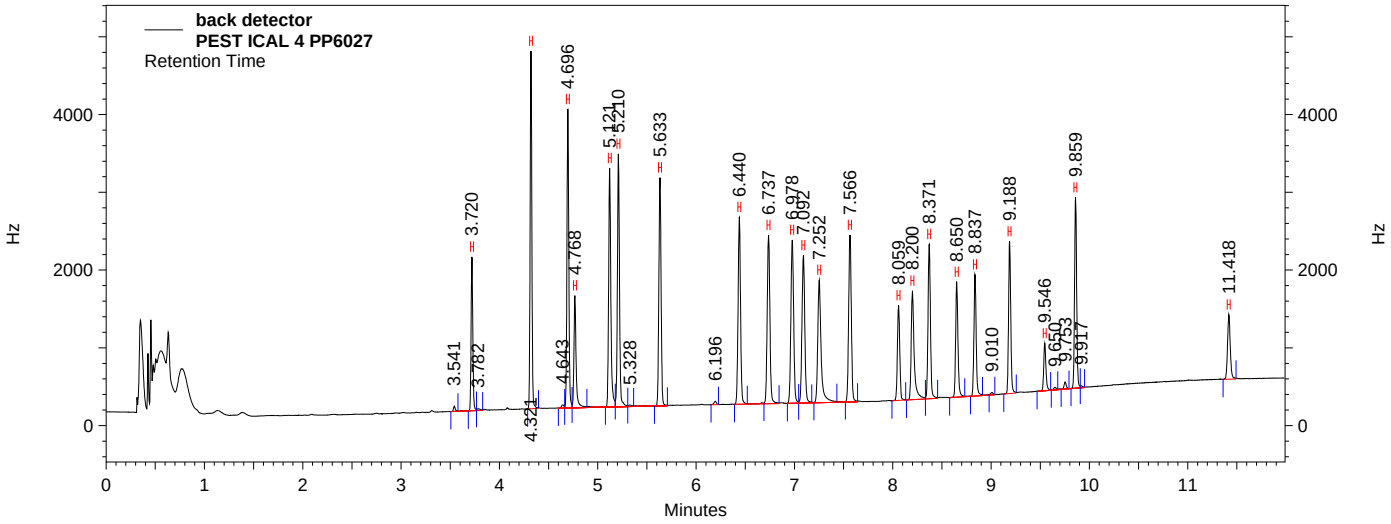

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.188 | 26036946 | 50.0000 CAL |
| ALPHABHC | 3.647 | 59161523 | 0.0200 CAL |
| LINDANE | 3.913 | 50744278 | 0.0200 CAL |
| BETABHC | 3.983 | 24453523 | 0.0200 CAL |
| DELTABHC | 4.143 | 50424586 | 0.0200 CAL |
| HEPTACHLOR | 4.343 | 54472691 | 0.0200 CAL |
| ALDRIN | 4.629 | 48661708 | 0.0200 CAL |
| HEPTAEPOX | 5.251 | 44529341 | 0.0200 CAL |
| GAMMACHLOR | 5.399 | 46251405 | 0.0200 CAL |
| ALPHACHLOR | 5.553 | 45648713 | 0.0200 CAL |
| 44DDE | 5.652 | 33288201 | 0.0200 CAL |
| ENDOI | 5.720 | 48970317 | 0.0200 CAL |
| DIELDRIN | 6.023 | 45433067 | 0.0200 CAL |
| ENDRIN | 6.341 | 21441469 | 0.0200 CAL |
| 44DDD | 6.453 | 30046803 | 0.0200 CAL |
| ENDOII | 6.670 | 37654335 | 0.0200 CAL |
| 44DDT | 6.883 | 27946161 | 0.0200 CAL |
| ENDRINALDEH | 7.332 | 28596762 | 0.0200 CAL |
| METHOXYCL | 7.710 | 12067206 | 0.0200 CAL |
| ENDOSULFATE | 8.002 | 35167346 | 0.0200 CAL |
| ENDRINKETONE | 8.392 | 42964534 | 0.0200 CAL |
| SURRDCBPEST | 9.704 | 19269071 | 50.0000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\016.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 4 PP6027
**Acquired:** 11/14/2019 20:05:34
**Printed:** 11/18/2019 08:41:59

**Data Summary: {Data Description}**



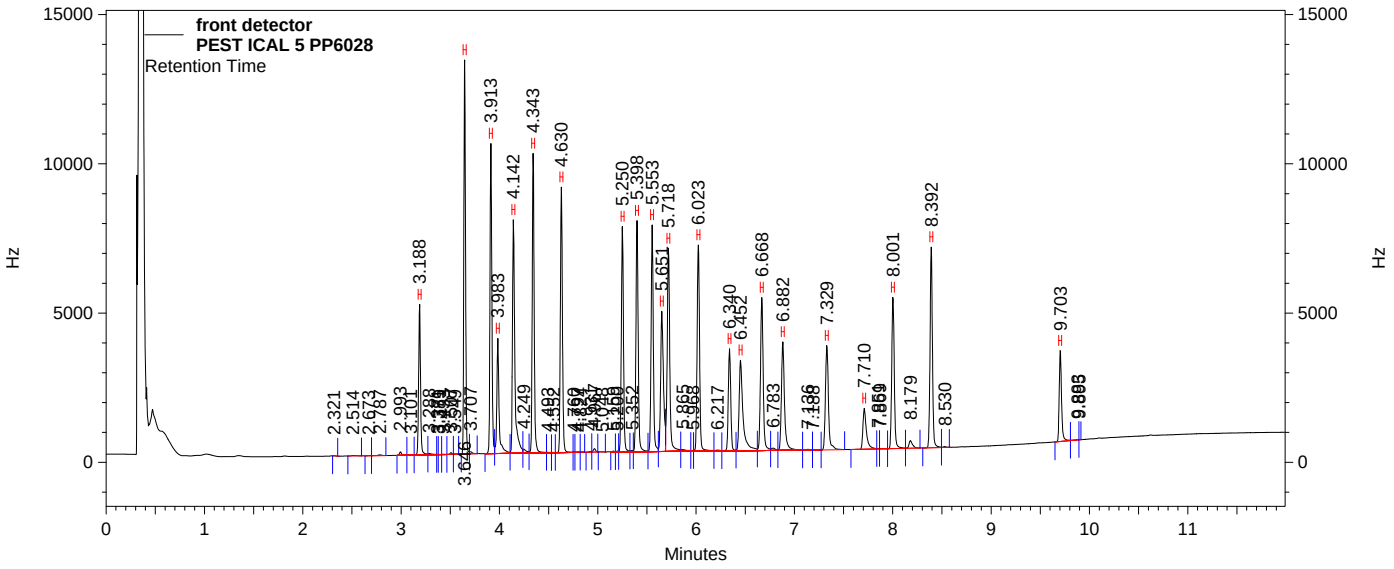

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 18785541 | 50.0000 CAL |
| ALPHABHC | 4.321 | 42740516 | 0.0200 CAL |
| LINDANE | 4.696 | 38347793 | 0.0200 CAL |
| BETABHC | 4.768 | 16874791 | 0.0200 CAL |
| DELTABHC | 5.121 | 36556683 | 0.0200 CAL |
| HEPTACHLOR | 5.210 | 36893275 | 0.0200 CAL |
| ALDRIN | 5.633 | 34933989 | 0.0200 CAL |
| HEPTAEPOX | 6.440 | 32089357 | 0.0200 CAL |
| GAMMACHLOR | 6.737 | 31596683 | 0.0200 CAL |
| ALPHACHLOR | 6.978 | 31010445 | 0.0200 CAL |
| ENDOI | 7.092 | 29292621 | 0.0200 CAL |
| 44DDE | 7.252 | 28963505 | 0.0200 CAL |
| DIELDRIN | 7.566 | 30857050 | 0.0200 CAL |
| ENDRIN | 8.059 | 15670665 | 0.0200 CAL |
| 44DDD | 8.200 | 22617183 | 0.0200 CAL |
| ENDOII | 8.371 | 25795080 | 0.0200 CAL |
| 44DDT | 8.650 | 18626054 | 0.0200 CAL |
| ENDRINALDEH | 8.837 | 19052170 | 0.0200 CAL |
| ENDOSULFATE | 9.188 | 23029663 | 0.0200 CAL |
| METHOXYCL | 9.546 | 7383785 | 0.0200 CAL |
| ENDRINKETONE | 9.859 | 27583714 | 0.0200 CAL |
| SURRDCBPEST | 11.418 | 12355772 | 50.0000 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\017.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 5 PP6028
**Acquired:** 11/14/2019 20:21:47
**Printed:** 11/18/2019 08:42:01

**Data Summary: {Data Description}**



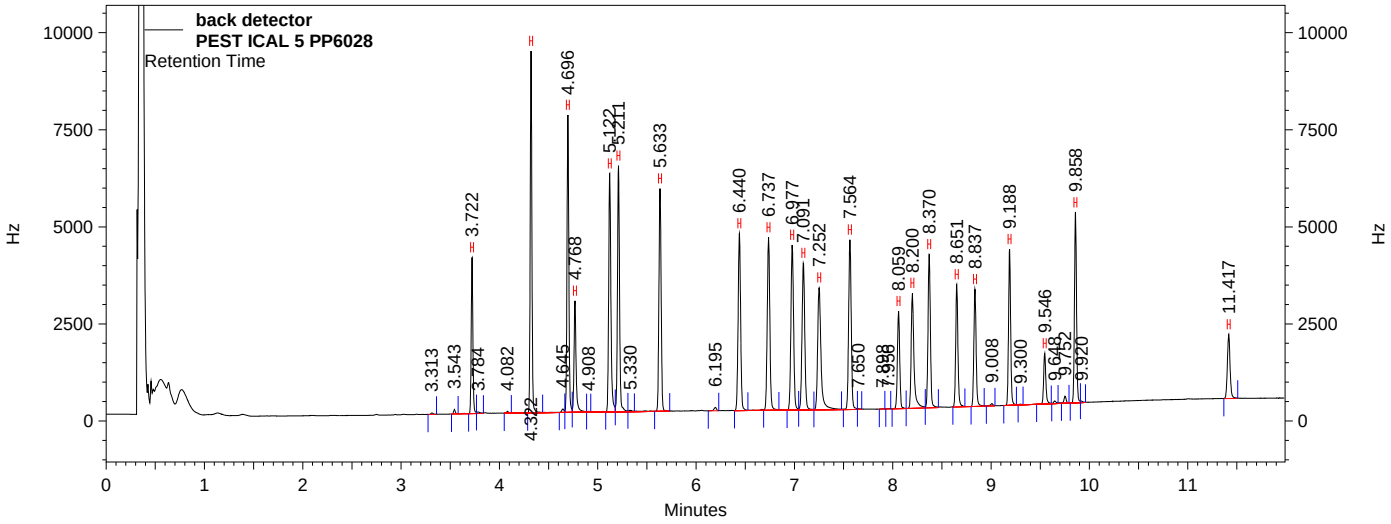

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.188 | 51782023 | 100.0000 CAL |
| ALPHABHC | 3.646 | 120217082 | 0.0400 CAL |
| LINDANE | 3.913 | 103551590 | 0.0400 CAL |
| BETABHC | 3.983 | 47878702 | 0.0400 CAL |
| DELTABHC | 4.142 | 101194592 | 0.0400 CAL |
| HEPTACHLOR | 4.343 | 106838406 | 0.0400 CAL |
| ALDRIN | 4.630 | 98188721 | 0.0400 CAL |
| HEPTAEPOX | 5.250 | 88057255 | 0.0400 CAL |
| GAMMACHLOR | 5.398 | 92534535 | 0.0400 CAL |
| ALPHACHLOR | 5.553 | 91036280 | 0.0400 CAL |
| 44DDE | 5.651 | 72024137 | 0.0400 CAL |
| ENDOI | 5.718 | 94584803 | 0.0400 CAL |
| DIELDRIN | 6.023 | 91425506 | 0.0400 CAL |
| ENDRIN | 6.340 | 44758643 | 0.0400 CAL |
| 44DDD | 6.452 | 63574727 | 0.0400 CAL |
| ENDOII | 6.668 | 75696805 | 0.0400 CAL |
| 44DDT | 6.882 | 61196972 | 0.0400 CAL |
| ENDRINALDEH | 7.329 | 57404432 | 0.0400 CAL |
| METHOXYCL | 7.710 | 26212249 | 0.0400 CAL |
| ENDOSULFATE | 8.001 | 70699236 | 0.0400 CAL |
| ENDRINKETONE | 8.392 | 85639798 | 0.0400 CAL |
| SURRDCBPEST | 9.703 | 37799730 | 100.0000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\017.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 5 PP6028
**Acquired:** 11/14/2019 20:21:47
**Printed:** 11/18/2019 08:42:01

**Data Summary: {Data Description}**



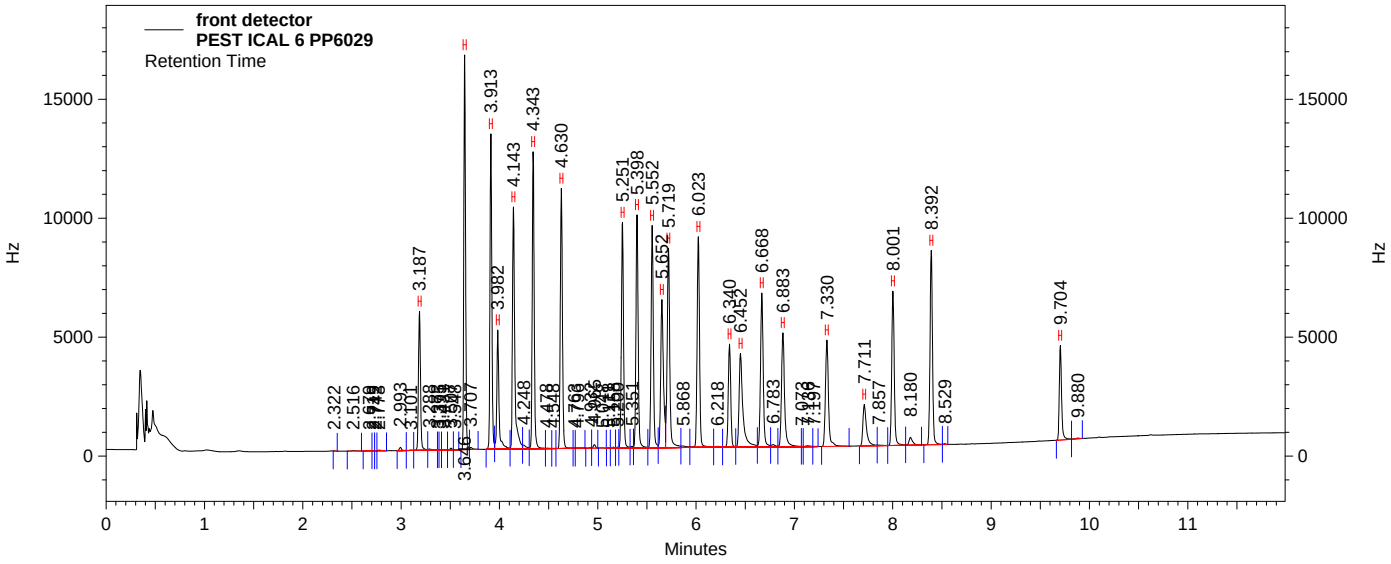

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.722 | 36570880 | 100.0000 CAL |
| ALPHABHC | 4.322 | 85335764 | 0.0400 CAL |
| LINDANE | 4.696 | 75685982 | 0.0400 CAL |
| BETABHC | 4.768 | 32552966 | 0.0400 CAL |
| DELTABHC | 5.122 | 73656276 | 0.0400 CAL |
| HEPTACHLOR | 5.211 | 71378459 | 0.0400 CAL |
| ALDRIN | 5.633 | 68611387 | 0.0400 CAL |
| HEPTAEPOX | 6.440 | 62255508 | 0.0400 CAL |
| GAMMACHLOR | 6.737 | 62239223 | 0.0400 CAL |
| ALPHACHLOR | 6.977 | 60707865 | 0.0400 CAL |
| ENDOI | 7.091 | 57128366 | 0.0400 CAL |
| 44DDE | 7.252 | 58025811 | 0.0400 CAL |
| DIELDRIN | 7.564 | 60978947 | 0.0400 CAL |
| ENDRIN | 8.059 | 31438122 | 0.0400 CAL |
| 44DDD | 8.200 | 45103791 | 0.0400 CAL |
| ENDOII | 8.370 | 50583830 | 0.0400 CAL |
| 44DDT | 8.651 | 38218120 | 0.0400 CAL |
| ENDRINALDEH | 8.837 | 37543935 | 0.0400 CAL |
| ENDOSULFATE | 9.188 | 45610914 | 0.0400 CAL |
| METHOXYCL | 9.546 | 15609713 | 0.0400 CAL |
| ENDRINKETONE | 9.858 | 54432004 | 0.0400 CAL |
| SURRDCBPEST | 11.417 | 24399140 | 100.0000 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\018.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 6 PP6029
**Acquired:** 11/14/2019 20:38:07
**Printed:** 11/18/2019 08:42:04

**Data Summary: {Data Description}**



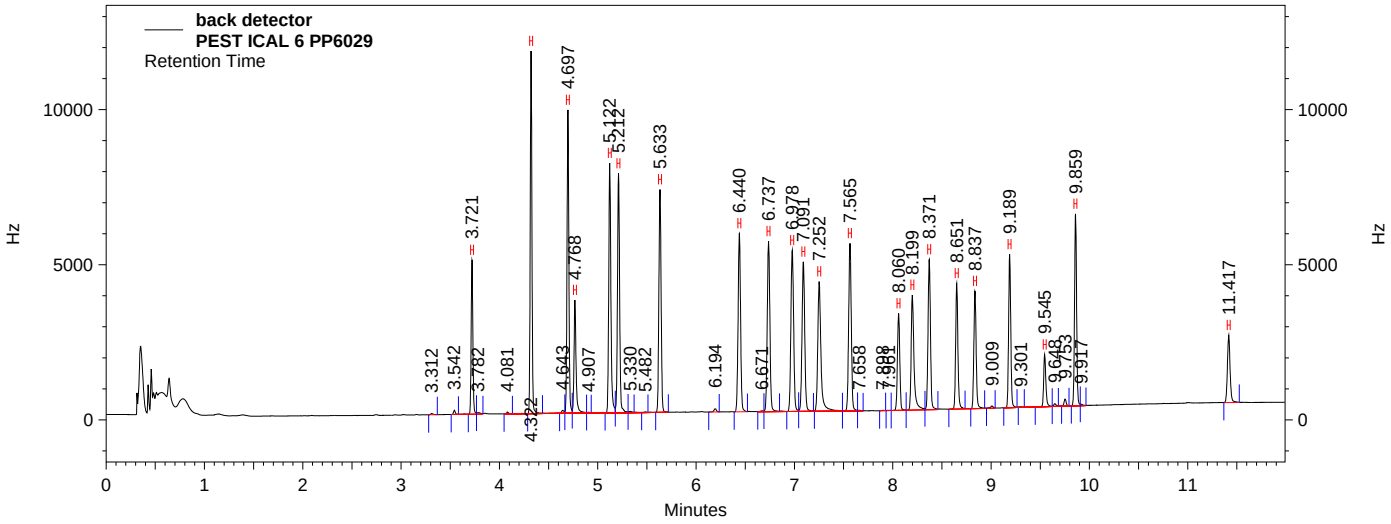

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.187 | 65678471 | 125.0000 CAL |
| ALPHABHC | 3.646 | 153664507 | 0.0500 CAL |
| LINDANE | 3.913 | 131548686 | 0.0500 CAL |
| BETABHC | 3.982 | 60081877 | 0.0500 CAL |
| DELTABHC | 4.143 | 129549578 | 0.0500 CAL |
| HEPTACHLOR | 4.343 | 134683706 | 0.0500 CAL |
| ALDRIN | 4.630 | 123781067 | 0.0500 CAL |
| HEPTAEPOX | 5.251 | 109910958 | 0.0500 CAL |
| GAMMACHLOR | 5.398 | 115903982 | 0.0500 CAL |
| ALPHACHLOR | 5.552 | 113628953 | 0.0500 CAL |
| 44DDE | 5.652 | 92163077 | 0.0500 CAL |
| ENDOI | 5.719 | 117518896 | 0.0500 CAL |
| DIELDRIN | 6.023 | 115378522 | 0.0500 CAL |
| ENDRIN | 6.340 | 57068212 | 0.0500 CAL |
| 44DDD | 6.452 | 81317120 | 0.0500 CAL |
| ENDOII | 6.668 | 95173667 | 0.0500 CAL |
| 44DDT | 6.883 | 80073710 | 0.0500 CAL |
| ENDRINALDEH | 7.330 | 73186495 | 0.0500 CAL |
| METHOXYCL | 7.711 | 34087676 | 0.0500 CAL |
| ENDOSULFATE | 8.001 | 89149848 | 0.0500 CAL |
| ENDRINKETONE | 8.392 | 108271910 | 0.0500 CAL |
| SURRDCBPEST | 9.704 | 48791538 | 125.0000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\018.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 6 PP6029
**Acquired:** 11/14/2019 20:38:07
**Printed:** 11/18/2019 08:42:04

**Data Summary:** {Data Description}



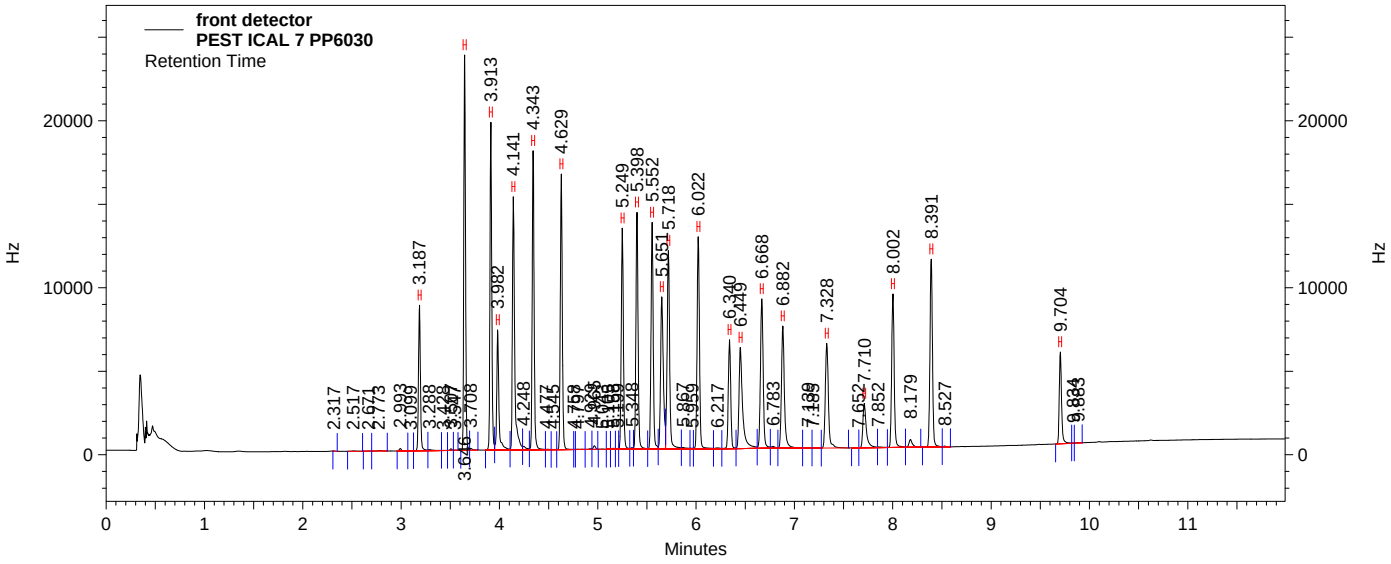

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.721 | 46239756 | 125.0000 CAL |
| ALPHABHC | 4.322 | 108068310 | 0.0500 CAL |
| LINDANE | 4.697 | 95895556 | 0.0500 CAL |
| BETABHC | 4.768 | 40752437 | 0.0500 CAL |
| DELTABHC | 5.122 | 93256419 | 0.0500 CAL |
| HEPTACHLOR | 5.212 | 89704678 | 0.0500 CAL |
| ALDRIN | 5.633 | 85765107 | 0.0500 CAL |
| HEPTAEPOX | 6.440 | 77637051 | 0.0500 CAL |
| GAMMACHLOR | 6.737 | 78212100 | 0.0500 CAL |
| ALPHACHLOR | 6.978 | 76359911 | 0.0500 CAL |
| ENDOI | 7.091 | 71351639 | 0.0500 CAL |
| 44DDE | 7.252 | 73002786 | 0.0500 CAL |
| DIELDRIN | 7.565 | 76470933 | 0.0500 CAL |
| ENDRIN | 8.060 | 39952286 | 0.0500 CAL |
| 44DDD | 8.199 | 56891613 | 0.0500 CAL |
| ENDOII | 8.371 | 63474117 | 0.0500 CAL |
| 44DDT | 8.651 | 49686550 | 0.0500 CAL |
| ENDRINALDEH | 8.837 | 47555605 | 0.0500 CAL |
| ENDOSULFATE | 9.189 | 57527606 | 0.0500 CAL |
| METHOXYCL | 9.545 | 20351495 | 0.0500 CAL |
| ENDRINKETONE | 9.859 | 68673695 | 0.0500 CAL |
| SURRDCBPEST | 11.417 | 31606113 | 125.0000 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\019.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 7 PP6030
**Acquired:** 11/14/2019 20:54:23
**Printed:** 11/18/2019 08:42:06

**Data Summary: {Data Description}**



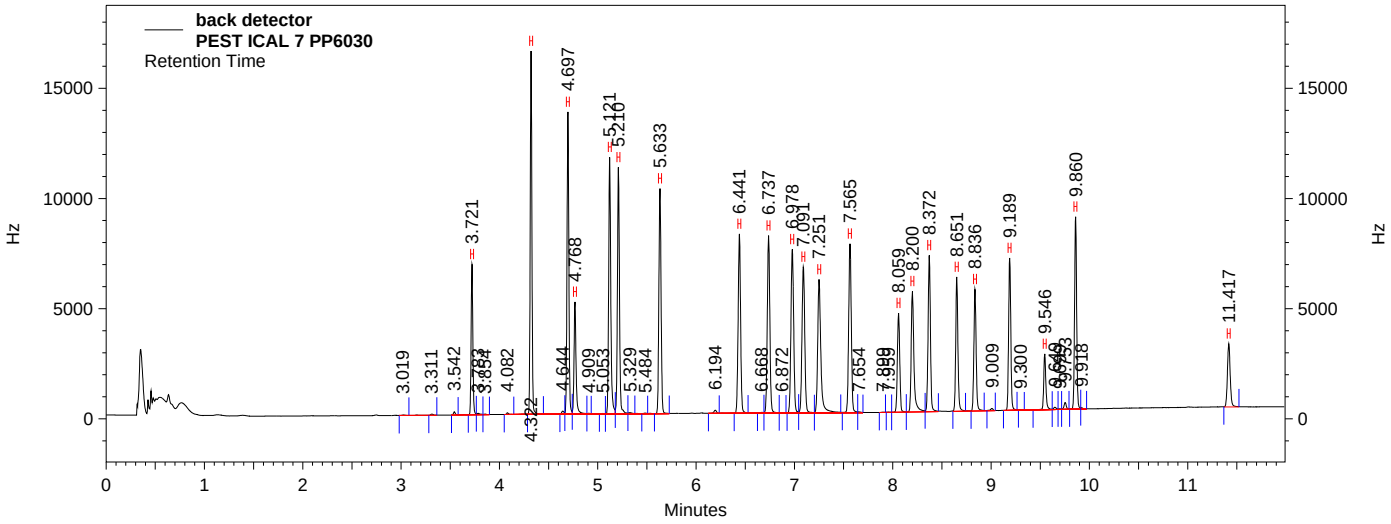

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.187 | 92529557 | 175.0000 CAL |
| ALPHABHC | 3.646 | 218305865 | 0.0700 CAL |
| LINDANE | 3.913 | 186531454 | 0.0700 CAL |
| BETABHC | 3.982 | 84005636 | 0.0700 CAL |
| DELTABHC | 4.141 | 186973227 | 0.0700 CAL |
| HEPTACHLOR | 4.343 | 187616237 | 0.0700 CAL |
| ALDRIN | 4.629 | 175210320 | 0.0700 CAL |
| HEPTAEPOX | 5.249 | 154165977 | 0.0700 CAL |
| GAMMACHLOR | 5.398 | 164599447 | 0.0700 CAL |
| ALPHACHLOR | 5.552 | 161390608 | 0.0700 CAL |
| 44DDE | 5.651 | 136503762 | 0.0700 CAL |
| ENDOI | 5.718 | 162775035 | 0.0700 CAL |
| DIELDRIN | 6.022 | 162342514 | 0.0700 CAL |
| ENDRIN | 6.340 | 83716401 | 0.0700 CAL |
| 44DDD | 6.449 | 117930439 | 0.0700 CAL |
| ENDOII | 6.668 | 134207629 | 0.0700 CAL |
| 44DDT | 6.882 | 117878984 | 0.0700 CAL |
| ENDRINALDEH | 7.328 | 104817195 | 0.0700 CAL |
| METHOXYCL | 7.710 | 49919067 | 0.0700 CAL |
| ENDOSULFATE | 8.002 | 126739960 | 0.0700 CAL |
| ENDRINKETONE | 8.391 | 152595703 | 0.0700 CAL |
| SURRDCBPEST | 9.704 | 67668432 | 175.0000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\019.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICAL 7 PP6030
**Acquired:** 11/14/2019 20:54:23
**Printed:** 11/18/2019 08:42:06

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.721 | 64630027 | 175.0000 CAL |
| ALPHABHC | 4.322 | 151788296 | 0.0700 CAL |
| LINDANE | 4.697 | 134746874 | 0.0700 CAL |
| BETABHC | 4.768 | 56779154 | 0.0700 CAL |
| DELTABHC | 5.121 | 132587867 | 0.0700 CAL |
| HEPTACHLOR | 5.210 | 124506938 | 0.0700 CAL |
| ALDRIN | 5.633 | 120365325 | 0.0700 CAL |
| HEPTAEPOX | 6.441 | 108420680 | 0.0700 CAL |
| GAMMACHLOR | 6.737 | 110793886 | 0.0700 CAL |
| ALPHACHLOR | 6.978 | 108033429 | 0.0700 CAL |
| ENDOI | 7.091 | 100328700 | 0.0700 CAL |
| 44DDE | 7.251 | 103700653 | 0.0700 CAL |
| DIELDRIN | 7.565 | 107969653 | 0.0700 CAL |
| ENDRIN | 8.059 | 57860763 | 0.0700 CAL |
| 44DDD | 8.200 | 81107302 | 0.0700 CAL |
| ENDOII | 8.372 | 89325060 | 0.0700 CAL |
| 44DDT | 8.651 | 72253787 | 0.0700 CAL |
| ENDRINALDEH | 8.836 | 67760585 | 0.0700 CAL |
| ENDOSULFATE | 9.189 | 81599626 | 0.0700 CAL |
| METHOXYCL | 9.546 | 29599590 | 0.0700 CAL |
| ENDRINKETONE | 9.860 | 97010558 | 0.0700 CAL |
| SURRDCBPEST | 11.417 | 43679520 | 175.0000 CAL |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\111419pstic.seq
**User :** JJY
**Printed :** 11/18/2019 08:42:11

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\111419pstic\020.dat | PEST ICV 1 PP6031 | 11/18/2019 08:42:11 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 50.000 | 49.322 | 1.357 | 20.000 | Passed |
| ALPHABHC | 0.020 | 0.020 | 0.688 | 20.000 | Passed |
| LINDANE | 0.020 | 0.019 | 2.700 | 20.000 | Passed |
| BETABHC | 0.020 | 0.020 | 0.969 | 20.000 | Passed |
| DELTABHC | 0.020 | 0.020 | 2.126 | 20.000 | Passed |
| HEPTACHLOR | 0.020 | 0.020 | 0.748 | 20.000 | Passed |
| ALDRIN | 0.020 | 0.020 | 1.359 | 20.000 | Passed |
| HEPTAEPOX | 0.020 | 0.020 | 1.686 | 20.000 | Passed |
| GAMMACHLOR | 0.020 | 0.020 | 1.556 | 20.000 | Passed |
| ALPHACHLOR | 0.020 | 0.020 | 2.217 | 20.000 | Passed |
| 44DDE | 0.020 | 0.019 | 4.421 | 20.000 | Passed |
| ENDOI | 0.020 | 0.020 | 0.170 | 20.000 | Passed |
| DIELDRIN | 0.020 | 0.020 | 2.367 | 20.000 | Passed |
| ENDRIN | 0.020 | 0.019 | 3.800 | 20.000 | Passed |
| 44DDD | 0.020 | 0.019 | 3.501 | 20.000 | Passed |
| ENDOII | 0.020 | 0.020 | 1.454 | 20.000 | Passed |
| 44DDT | 0.020 | 0.020 | 0.128 | 20.000 | Passed |
| ENDRINALDEH | 0.020 | 0.020 | 2.106 | 20.000 | Passed |
| METHOXYCL | 0.020 | 0.020 | 0.214 | 20.000 | Passed |
| ENDOSULFATE | 0.020 | 0.021 | 3.343 | 20.000 | Passed |
| ENDRINKETONE | 0.020 | 0.020 | 2.118 | 20.000 | Passed |
| SURRDCBPEST | 50.000 | 52.073 | 4.146 | 20.000 | Passed |

**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 50.000 | 49.303 | 1.395 | 20.000 | Passed |
| ALPHABHC | 0.020 | 0.020 | 0.852 | 20.000 | Passed |
| LINDANE | 0.020 | 0.020 | 1.670 | 20.000 | Passed |
| BETABHC | 0.020 | 0.020 | 2.343 | 20.000 | Passed |
| DELTABHC | 0.020 | 0.020 | 0.071 | 20.000 | Passed |
| HEPTACHLOR | 0.020 | 0.020 | 0.703 | 20.000 | Passed |
| ALDRIN | 0.020 | 0.020 | 1.730 | 20.000 | Passed |
| HEPTAEPOX | 0.020 | 0.020 | 1.906 | 20.000 | Passed |
| GAMMACHLOR | 0.020 | 0.020 | 1.174 | 20.000 | Passed |
| ALPHACHLOR | 0.020 | 0.020 | 2.146 | 20.000 | Passed |
| ENDOI | 0.020 | 0.020 | 0.977 | 20.000 | Passed |
| 44DDE | 0.020 | 0.020 | 1.531 | 20.000 | Passed |
| DIELDRIN | 0.020 | 0.020 | 0.266 | 20.000 | Passed |
| ENDRIN | 0.020 | 0.020 | 2.165 | 20.000 | Passed |
| 44DDD | 0.020 | 0.020 | 0.837 | 20.000 | Passed |
| ENDOII | 0.020 | 0.020 | 0.767 | 20.000 | Passed |
| 44DDT | 0.020 | 0.020 | 0.813 | 20.000 | Passed |
| ENDRINALDEH | 0.020 | 0.021 | 3.383 | 20.000 | Passed |
| ENDOSULFATE | 0.020 | 0.021 | 4.834 | 20.000 | Passed |

## QC Check Standard Report



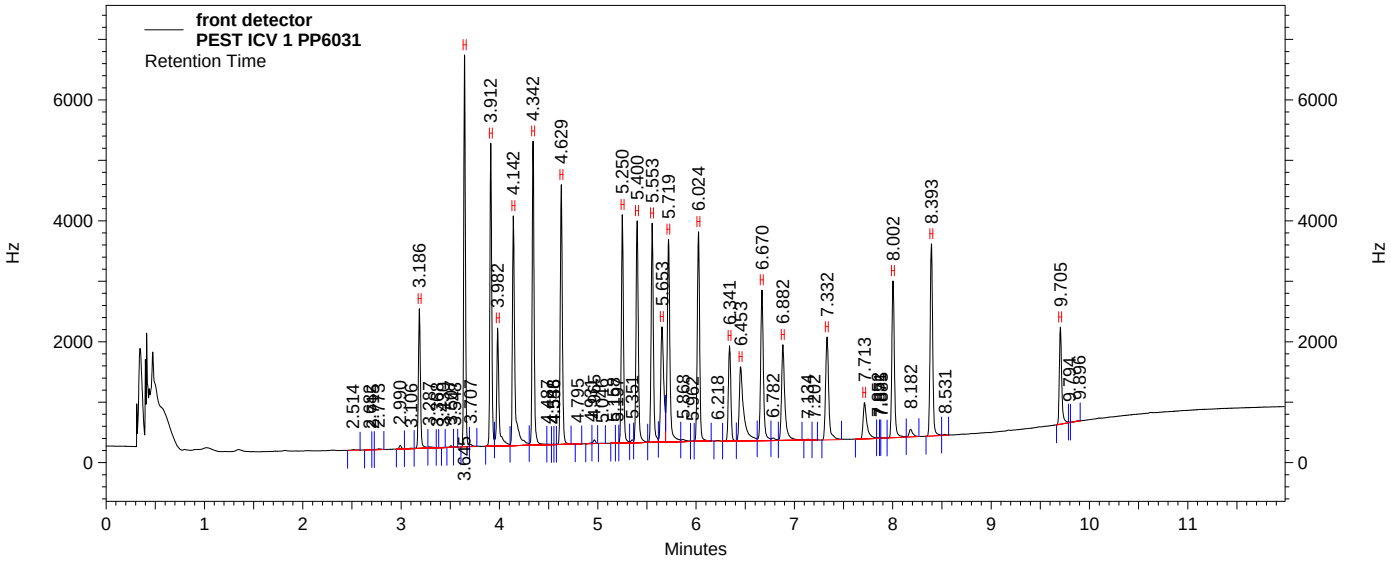
**Sequence :** C:\Instarch\Semi1\Sequence\111419pstic.seq
**User :** JJY
**Printed :** 11/18/2019 08:42:11

| | | | | | |
|---|---|---|---|---|---|
| **METHOXYCL** | 0.020 | 0.020 | 0.813 | 20.000 | **Passed** |
| **ENDRINKETONE** | 0.020 | 0.021 | 2.709 | 20.000 | **Passed** |
| **SURRDCBPEST** | 50.000 | 52.908 | 5.816 | 20.000 | **Passed** |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\020.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICV 1 PP6031
**Acquired:** 11/14/2019 21:10:40
**Printed:** 11/18/2019 08:42:09

**Data Summary: {Data Description}**



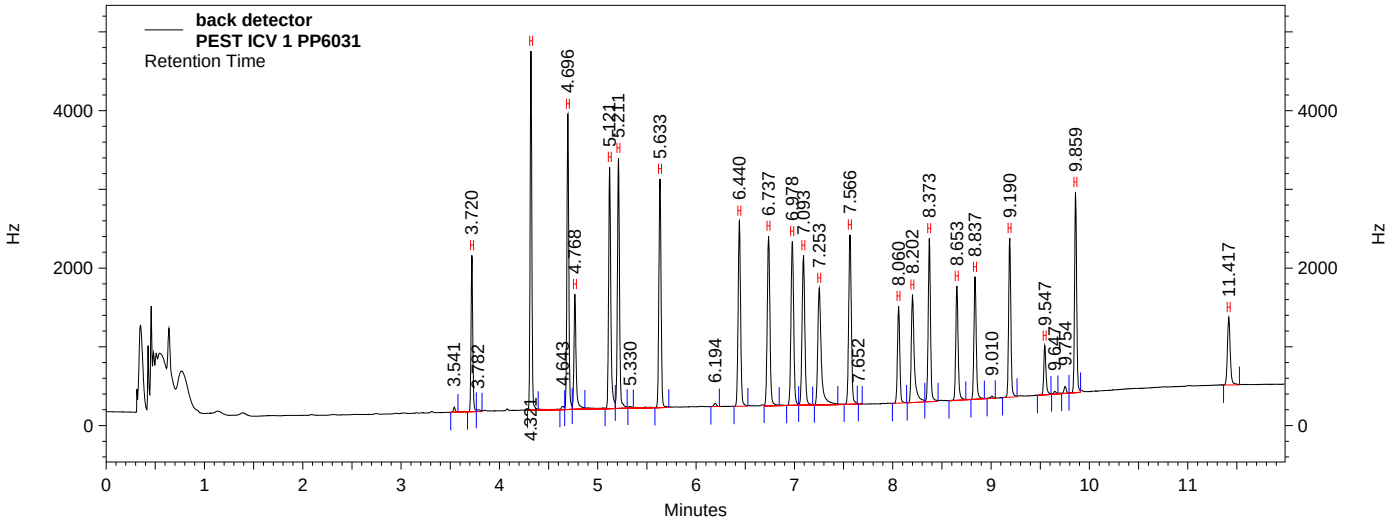

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.186 | 25647066 | 49.3216 |
| ALPHABHC | 3.645 | 58348009 | 0.0199 |
| LINDANE | 3.912 | 49210910 | 0.0195 |
| BETABHC | 3.982 | 24834674 | 0.0202 |
| DELTABHC | 4.142 | 50386334 | 0.0204 |
| HEPTACHLOR | 4.342 | 53839339 | 0.0199 |
| ALDRIN | 4.629 | 47834273 | 0.0197 |
| HEPTAEPOX | 5.250 | 43507324 | 0.0197 |
| GAMMACHLOR | 5.400 | 45419109 | 0.0197 |
| ALPHACHLOR | 5.553 | 44511960 | 0.0196 |
| 44DDE | 5.653 | 31797568 | 0.0191 |
| ENDOI | 5.719 | 48758956 | 0.0200 |
| DIELDRIN | 6.024 | 44305955 | 0.0195 |
| ENDRIN | 6.341 | 20958746 | 0.0192 |
| 44DDD | 6.453 | 29421655 | 0.0193 |
| ENDOII | 6.670 | 37365389 | 0.0197 |
| 44DDT | 6.882 | 28446255 | 0.0200 |
| ENDRINALDEH | 7.332 | 29104244 | 0.0204 |
| METHOXYCL | 7.713 | 12337222 | 0.0200 |
| ENDOSULFATE | 8.002 | 36615413 | 0.0207 |
| ENDRINKETONE | 8.393 | 44048605 | 0.0204 |
| SURRDCBPEST | 9.705 | 20368681 | 52.0732 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\020.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICV 1 PP6031
**Acquired:** 11/14/2019 21:10:40
**Printed:** 11/18/2019 08:42:09

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 18506761 | 49.3027 |
| ALPHABHC | 4.321 | 42406066 | 0.0198 |
| LINDANE | 4.696 | 37589607 | 0.0197 |
| BETABHC | 4.768 | 17234686 | 0.0205 |
| DELTABHC | 5.121 | 36548314 | 0.0200 |
| HEPTACHLOR | 5.211 | 36515213 | 0.0199 |
| ALDRIN | 5.633 | 34309764 | 0.0197 |
| HEPTAEPOX | 6.440 | 31418001 | 0.0196 |
| GAMMACHLOR | 6.737 | 31109987 | 0.0198 |
| ALPHACHLOR | 6.978 | 30234588 | 0.0196 |
| ENDOI | 7.093 | 28904346 | 0.0198 |
| 44DDE | 7.253 | 28461618 | 0.0197 |
| DIELDRIN | 7.566 | 30724998 | 0.0199 |
| ENDRIN | 8.060 | 15513883 | 0.0196 |
| 44DDD | 8.202 | 22465051 | 0.0198 |
| ENDOII | 8.373 | 25622748 | 0.0198 |
| 44DDT | 8.653 | 18789574 | 0.0202 |
| ENDRINALDEH | 8.837 | 19603736 | 0.0207 |
| ENDOSULFATE | 9.190 | 24303260 | 0.0210 |
| METHOXYCL | 9.547 | 7563566 | 0.0202 |
| ENDRINKETONE | 9.859 | 28424452 | 0.0205 |
| SURRDCBPEST | 11.417 | 13316508 | 52.9080 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\111419pstic.seq
**User :** JJY
**Printed :** 11/18/2019 08:42:16

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\111419pstic\021.dat | PEST ICV 2 PP6032 | 11/18/2019 08:42:15 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 103.699 | 3.699 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.042 | 4.169 | 20.000 | Passed |
| LINDANE | 0.040 | 0.041 | 1.638 | 20.000 | Passed |
| BETABHC | 0.040 | 0.042 | 5.120 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.042 | 5.017 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.042 | 3.784 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.042 | 4.289 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.041 | 3.247 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.042 | 4.446 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.041 | 3.269 | 20.000 | Passed |
| 44DDE | 0.040 | 0.042 | 4.258 | 20.000 | Passed |
| ENDOI | 0.040 | 0.042 | 4.856 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.042 | 5.314 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.042 | 5.304 | 20.000 | Passed |
| 44DDD | 0.040 | 0.042 | 4.147 | 20.000 | Passed |
| ENDOII | 0.040 | 0.042 | 3.794 | 20.000 | Passed |
| 44DDT | 0.040 | 0.042 | 6.051 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.042 | 5.846 | 20.000 | Passed |
| METHOXYCL | 0.040 | 0.042 | 5.577 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.043 | 7.386 | 20.000 | Passed |
| ENDRINKETONE | 0.040 | 0.042 | 5.993 | 20.000 | Passed |
| SURRDCBPEST | 100.000 | 106.890 | 6.890 | 20.000 | Passed |

**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 102.892 | 2.892 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.041 | 3.501 | 20.000 | Passed |
| LINDANE | 0.040 | 0.041 | 2.417 | 20.000 | Passed |
| BETABHC | 0.040 | 0.042 | 5.678 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.042 | 4.722 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.041 | 3.564 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.041 | 3.236 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.041 | 3.000 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.042 | 4.035 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.041 | 2.869 | 20.000 | Passed |
| ENDOI | 0.040 | 0.042 | 3.846 | 20.000 | Passed |
| 44DDE | 0.040 | 0.042 | 3.969 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.042 | 5.008 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.042 | 4.275 | 20.000 | Passed |
| 44DDD | 0.040 | 0.041 | 3.624 | 20.000 | Passed |
| ENDOII | 0.040 | 0.041 | 2.894 | 20.000 | Passed |
| 44DDT | 0.040 | 0.042 | 4.946 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.042 | 5.746 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.043 | 6.660 | 20.000 | Passed |

## QC Check Standard Report



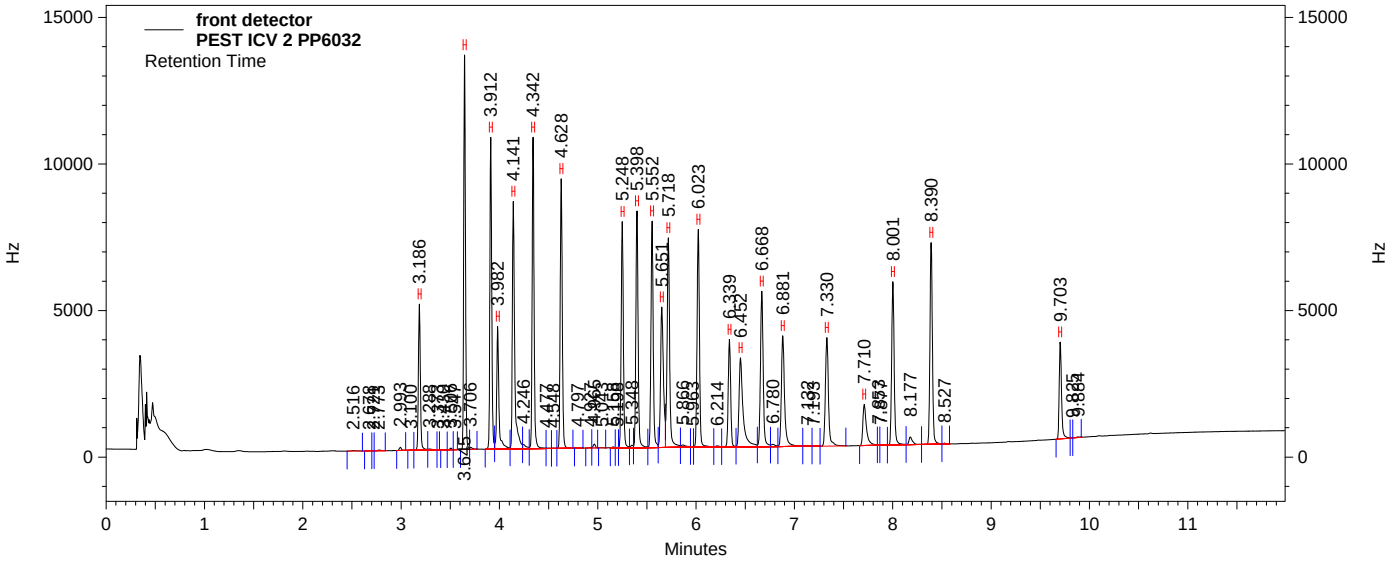
**Sequence :** C:\Instarch\Semi1\Sequence\111419pstic.seq
**User :** JJY
**Printed :** 11/18/2019 08:42:16

| | | | | | |
|---|---|---|---|---|---|
| **METHOXYCL** | 0.040 | 0.043 | 6.290 | 20.000 | **Passed** |
| **ENDRINKETONE** | 0.040 | 0.042 | 4.943 | 20.000 | **Passed** |
| **SURRDCBPEST** | 100.000 | 106.264 | 6.264 | 20.000 | **Passed** |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\021.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICV 2 PP6032
**Acquired:** 11/14/2019 21:26:56
**Printed:** 11/18/2019 08:42:13

**Data Summary: {Data Description}**



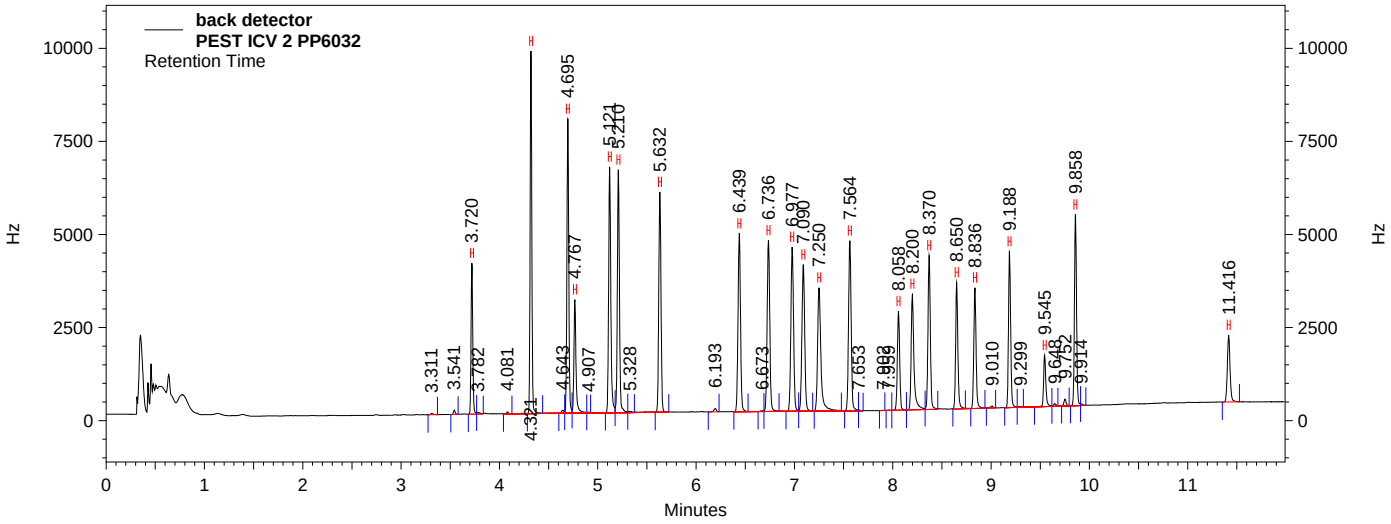

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.186 | 54185773 | 103.6995 |
| ALPHABHC | 3.645 | 125918938 | 0.0417 |
| LINDANE | 3.912 | 105245082 | 0.0407 |
| BETABHC | 3.982 | 50953990 | 0.0420 |
| DELTABHC | 4.141 | 107302500 | 0.0420 |
| HEPTACHLOR | 4.342 | 111765607 | 0.0415 |
| ALDRIN | 4.628 | 102533853 | 0.0417 |
| HEPTAEPOX | 5.248 | 90993732 | 0.0413 |
| GAMMACHLOR | 5.398 | 96910506 | 0.0418 |
| ALPHACHLOR | 5.552 | 94207959 | 0.0413 |
| 44DDE | 5.651 | 74779469 | 0.0417 |
| ENDOI | 5.718 | 99829682 | 0.0419 |
| DIELDRIN | 6.023 | 96448213 | 0.0421 |
| ENDRIN | 6.339 | 47600530 | 0.0421 |
| 44DDD | 6.452 | 66423732 | 0.0417 |
| ENDOII | 6.668 | 78886598 | 0.0415 |
| 44DDT | 6.881 | 65481455 | 0.0424 |
| ENDRINALDEH | 7.330 | 61522219 | 0.0423 |
| METHOXYCL | 7.710 | 27944799 | 0.0422 |
| ENDOSULFATE | 8.001 | 76595066 | 0.0430 |
| ENDRINKETONE | 8.390 | 91647051 | 0.0424 |
| SURRDCBPEST | 9.703 | 41424181 | 106.8904 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\021.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419pstic.met
**User:** JJY
**Sample ID:** PEST ICV 2 PP6032
**Acquired:** 11/14/2019 21:26:56
**Printed:** 11/18/2019 08:42:13

**Data Summary: {Data Description}**




**back detector Results**

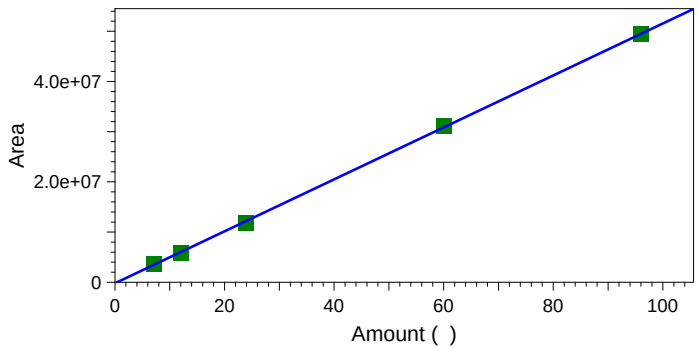
| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 38191986 | 102.8923 |
| ALPHABHC | 4.321 | 88959808 | 0.0414 |
| LINDANE | 4.695 | 78310225 | 0.0410 |
| BETABHC | 4.767 | 34786715 | 0.0423 |
| DELTABHC | 5.121 | 77602824 | 0.0419 |
| HEPTACHLOR | 5.210 | 74770016 | 0.0414 |
| ALDRIN | 5.632 | 71246977 | 0.0413 |
| HEPTAEPOX | 6.439 | 64721569 | 0.0412 |
| GAMMACHLOR | 6.736 | 65376197 | 0.0416 |
| ALPHACHLOR | 6.977 | 63212396 | 0.0411 |
| ENDOI | 7.090 | 59856709 | 0.0415 |
| 44DDE | 7.250 | 60627111 | 0.0416 |
| DIELDRIN | 7.564 | 64499177 | 0.0420 |
| ENDRIN | 8.058 | 33425521 | 0.0417 |
| 44DDD | 8.200 | 47220239 | 0.0414 |
| ENDOII | 8.370 | 52641192 | 0.0412 |
| 44DDT | 8.650 | 40892882 | 0.0420 |
| ENDRINALDEH | 8.836 | 40271640 | 0.0423 |
| ENDOSULFATE | 9.188 | 49318128 | 0.0427 |
| METHOXYCL | 9.545 | 16849597 | 0.0425 |
| ENDRINKETONE | 9.858 | 57838647 | 0.0420 |
| SURRDCBPEST | 11.416 | 26518648 | 106.2641 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:36
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (front detector)
Average RF: 506027. RF StDev: 11961.6 RF %RSD: 2.36383
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 517266.x - 195840.
Goodness of fit (r^2): 0.999863

Peak: SURRTCMXPEST -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 7.2 | 12 | 24 | 60 | 96 |
| Area | 3664972 | 5904550 | 11878633 | 31075268 | 49555445 |
| RF | 509023.8888 88889 | 492045.833333 333 | 494943.0416666 67 | 517921.1333333 33 | 516202.55208 3333 |
| Last Area Residual | -0.263883 | 0.206472 | 0.657126 | -0.454608 | -0.181256 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 3664972 | 5904550 | 11878633 | 31075268 | 49555445 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 144 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:36
User: JJY
Instrument: Semi 1 (Offline)

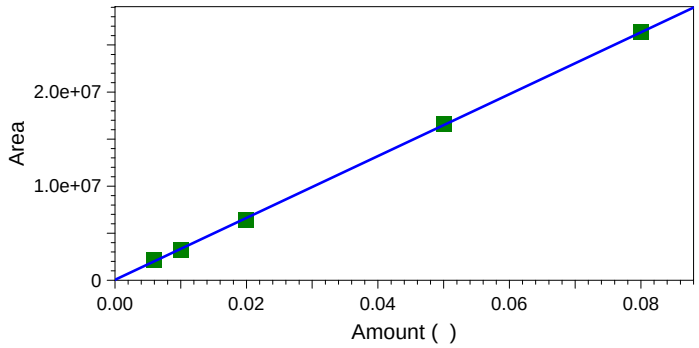
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:39
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #1 (front detector)
Average RF: 3.32054e+008 RF StDev: 1.24845e+007 RF %RSD: 3.75979
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.28820e+008x + 41823.7
Goodness of fit (r^2): 0.999822

Peak: Chlordane #1 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 2117570 | 3238813 | 6423536 | 16591500 | 26436295 |
| RF | 352928333.333333 | 323881300 | 321176800 | 331830000 | 330453687.5 |
| Last Area Residual | -0.000312713 | 0.000277388 | 0.000592081 | -0.000330502 | -0.00027027 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2117570 | 3238813 | 6423536 | 16591500 | 26436295 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:39
User: JJY
Instrument: Semi 1 (Offline)

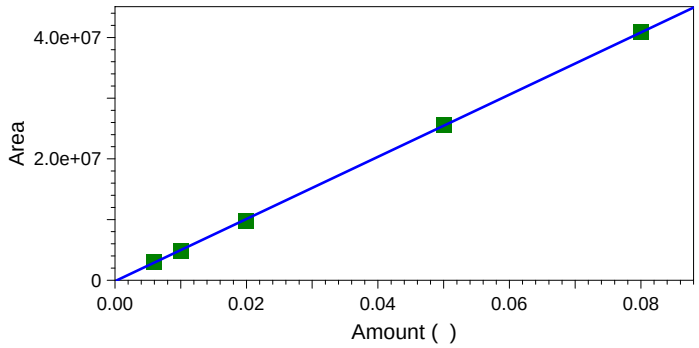
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:41
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #2 (front detector)
Average RF: 5.02052e+008 RF StDev: 1.32068e+007 RF %RSD: 2.63057
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 5.12390e+008x - 151602.
Goodness of fit (r^2): 0.999815

Peak: Chlordane #2 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 3059196 | 4872890 | 9759729 | 25635193 | 40993137 |
| RF | 509866000 | 487289000 | 487986450 | 512703860 | 512414212.5 |
| Last Area Residual | -0.000266315 | 0.000194012 | 0.000656673 | -0.000326479 | -0.00029962 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 3059196 | 4872890 | 9759729 | 25635193 | 40993137 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |
| RF | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:41
User: JJY
Instrument: Semi 1 (Offline)

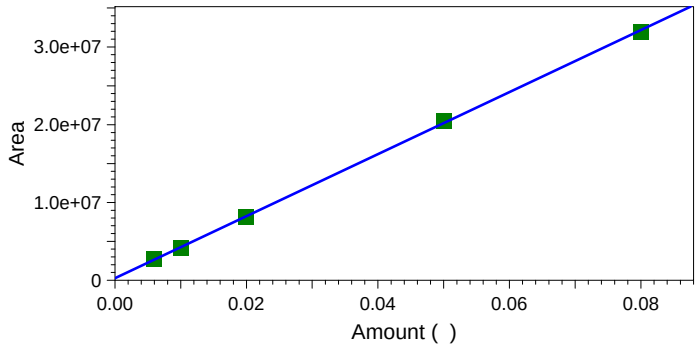
| | |
|---|---|
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:42
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #3 (front detector)
Average RF: 4.17120e+008 RF StDev: 1.88021e+007 RF %RSD: 4.50761
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.98893e+008x + 259628.
Goodness of fit (r^2): 0.999803

Peak: Chlordane #3 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 2690292 | 4193709 | 8166462 | 20485065 | 31985630 |
| RF | 448382000 | 419370900 | 408323100 | 409701300 | 399820375 |
| Last Area Residual | -9.35242e-005 | 0.000137503 | 0.000178059 | -0.000703912 | 0.000464887 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2690292 | 4193709 | 8166462 | 20485065 | 31985630 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:42
User: JJY
Instrument: Semi 1 (Offline)

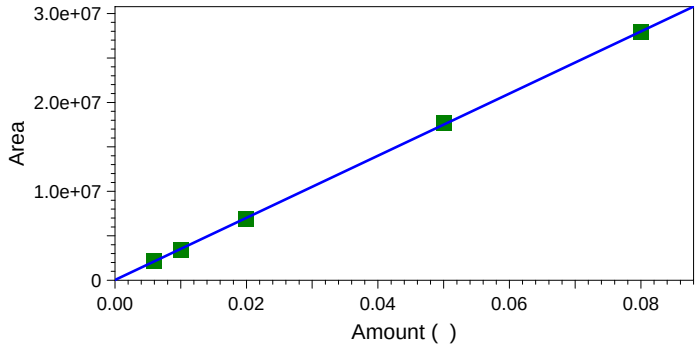
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:44
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #4 (front detector)
Average RF: 3.51445e+008 RF StDev: 9.92073e+006 RF %RSD: 2.82284
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.49389e+008x + 26597.3
Goodness of fit (r^2): 0.999898

Peak: Chlordane #4 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 2205676 | 3421424 | 6900731 | 17636452 | 27976242 |
| RF | 367612666.666667 | 342142400 | 345036550 | 352729040 | 349703025 |
| Last Area Residual | -0.000236827 | 0.000283533 | 0.000325272 | -0.000401855 | 4.22637e-006 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2205676 | 3421424 | 6900731 | 17636452 | 27976242 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:44
User: JJY
Instrument: Semi 1 (Offline)

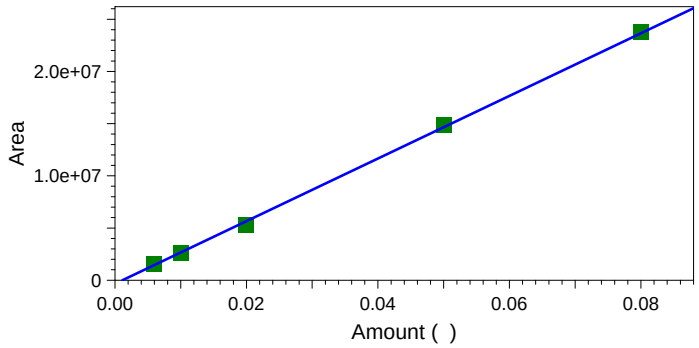
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:45
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #5 (front detector)
Average RF: 2.76529e+008 RF StDev: 1.90731e+007 RF %RSD: 6.89732
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.99788e+008x - 335353.
Goodness of fit (r^2): 0.999365

Peak: Chlordane #5 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1586246 | 2595590 | 5281701 | 14839503 | 23827003 |
| RF | 264374333.333333 | 259559000 | 264085050 | 296790060 | 297837537.5 |
| Last Area Residual | -0.000409867 | 0.000223269 | 0.00126322 | -0.00061869 | -0.000598249 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1586246 | 2595590 | 5281701 | 14839503 | 23827003 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:45
User: JJY
Instrument: Semi 1 (Offline)

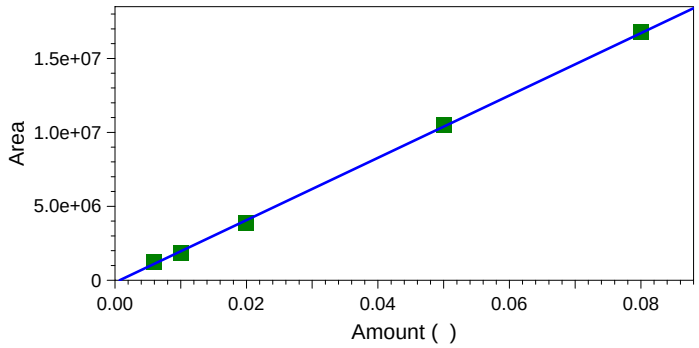
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:47
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #1 (front detector)
Average RF: 2.00681e+008 RF StDev: 1.16873e+007 RF %RSD: 5.82381
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.10671e+008x - 149344.
Goodness of fit (r^2): 0.999403

Peak: Toxaphene #1 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1237174 | 1845651 | 3842743 | 10512348 | 16820686 |
| RF | 206195666.666667 | 184565100 | 192137150 | 210246960 | 210258575 |
| Last Area Residual | -0.00058145 | 0.000530264 | 0.00105057 | -0.000608357 | -0.000552443 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1237174 | 1845651 | 3842743 | 10512348 | 16820686 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:47
User: JJY
Instrument: Semi 1 (Offline)

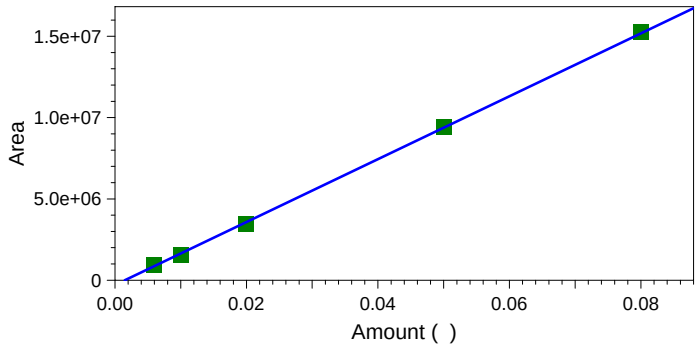
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:48
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #2 (front detector)
Average RF: 1.73255e+008 RF StDev: 1.62666e+007 RF %RSD: 9.38881
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.93301e+008x - 286769.
Goodness of fit (r^2): 0.999670

Peak: Toxaphene #2 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 948680 | 1567793 | 3433137 | 9427123 | 15294674 |
| RF | 158113333.333333 | 156779300 | 171656850 | 188542460 | 191183425 |
| Last Area Residual | -0.000391331 | 0.00040582 | 0.000755862 | -0.00025274 | -0.000607259 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 948680 | 1567793 | 3433137 | 9427123 | 15294674 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:48
User: JJY
Instrument: Semi 1 (Offline)

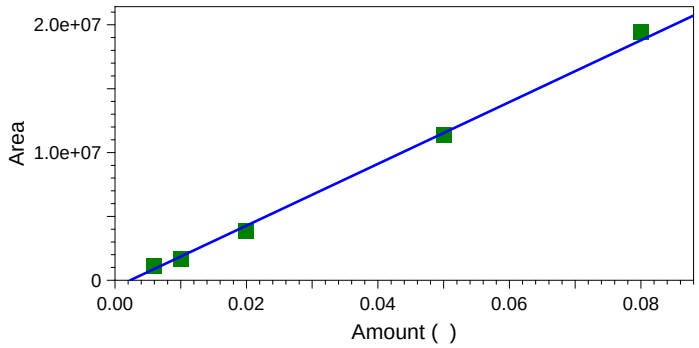
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:50
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #3 (front detector)
Average RF: 2.03704e+008 RF StDev: 3.17556e+007 RF %RSD: 15.5891
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.41811e+008x - 559428.
Goodness of fit (r^2): 0.996787

Peak: Toxaphene #3 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1144554 | 1639633 | 3850536 | 11390106 | 19477381 |
| RF | 190759000 | 163963300 | 192526800 | 227802120 | 243467262.5 |
| Last Area | | | | | |
| Residual | -0.00104676 | 0.000905862 | 0.00176275 | 0.00058313 | -0.00286151 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1144554 | 1639633 | 3850536 | 11390106 | 19477381 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |
| RF | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:50
User: JJY
Instrument: Semi 1 (Offline)

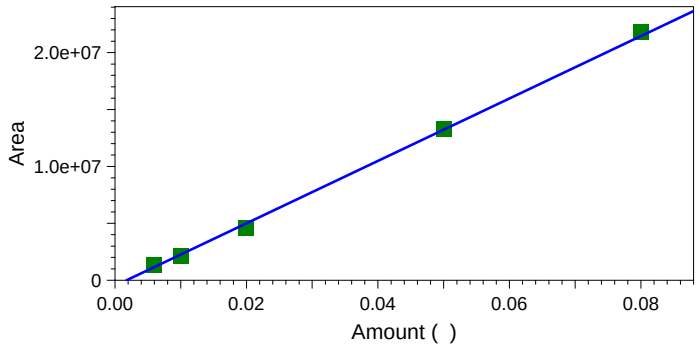
| | |
|---|---|
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:52
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #4 (front detector)
Average RF: 2.40756e+008 RF StDev: 2.65151e+007 RF %RSD: 11.0133
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.74161e+008x - 479373.
Goodness of fit (r^2): 0.998816

Peak: Toxaphene #4 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1319147 | 2159391 | 4596130 | 13247467 | 21858182 |
| RF | 219857833.333333 | 215939100 | 229806500 | 264949340 | 273227275 |
| Last Area Residual | -0.000560086 | 0.00037513 | 0.00148714 | -6.85408e-005 | -0.00147606 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1319147 | 2159391 | 4596130 | 13247467 | 21858182 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:52
User: JJY
Instrument: Semi 1 (Offline)

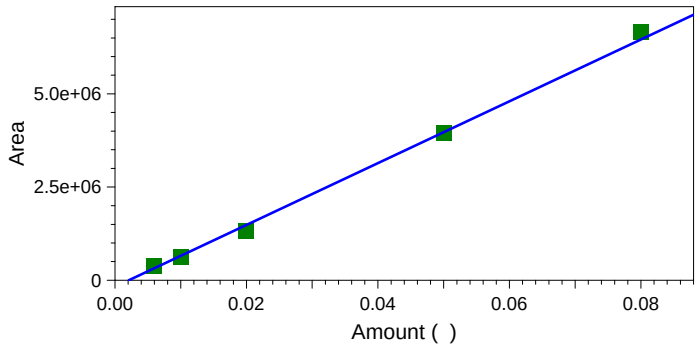
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:53
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #5 (front detector)
Average RF: 7.08698e+007 RF StDev: 9.54078e+006 RF %RSD: 13.4624
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 8.28638e+007x - 172936.
Goodness of fit (r^2): 0.997143

Peak: Toxaphene #5 -- ESTD -- front detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 384992 | 624526 | 1310705 | 3939648 | 6672213 |
| RF | 64165333.33 33333 | 62452600 | 65535250 | 78792960 | 83402662.5 |
| Last Area Residual | -0.00073307 | 0.000376234 | 0.00209542 | 0.000369339 | -0.00260726 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 384992 | 624526 | 1310705 | 3939648 | 6672213 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

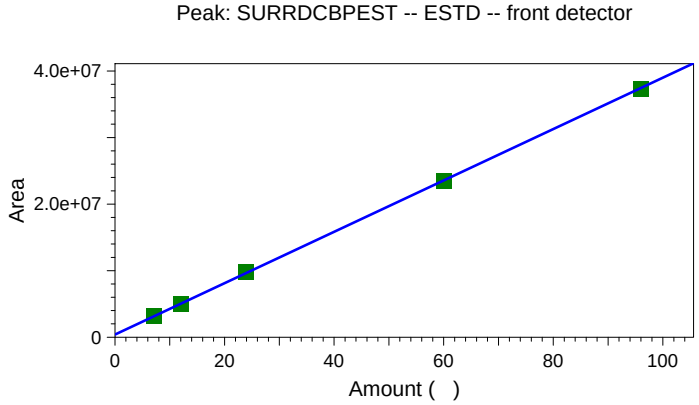
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:53
User: JJY
Instrument: Semi 1 (Offline)

| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:55
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (front detector)
Average RF: 409055. RF StDev: 20584.3 RF %RSD: 5.03215
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 385943.x + 397106.
Goodness of fit (r^2): 0.999937




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 7.2 | 12 | 24 | 60 | 96 |
| Area | 3172603 | 4951690 | 9856742 | 23524296 | 37365463 |
| RF | 440639.3055 55556 | 412640.833333 333 | 410697.5833333 33 | 392071.6 | 389223.57291 6667 |
| Last Area Residual | 0.00853767 | 0.198828 | -0.510426 | 0.0762067 | 0.212999 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 3172603 | 4951690 | 9856742 | 23524296 | 37365463 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 144 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:05:55
User: JJY
Instrument: Semi 1 (Offline)

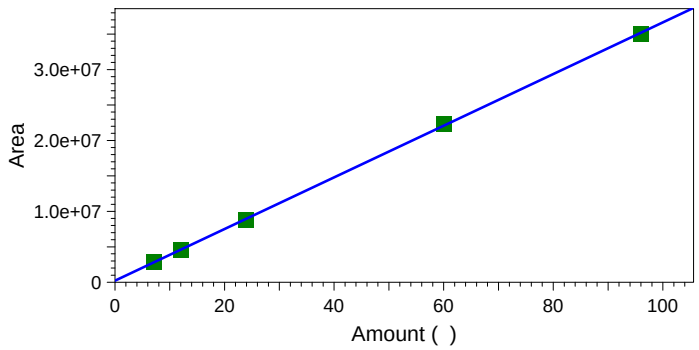
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:04
User: JJY
Instrument: Semi 1 (Offline)

SURRTCMXPEST (back detector)
Average RF: 377704. RF StDev: 15688.2 RF %RSD: 4.15357
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 364257.x + 228714.
Goodness of fit (r^2): 0.999819

Peak: SURRTCMXPEST -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 7.2 | 12 | 24 | 60 | 96 |
| Area | 2904547 | 4570939 | 8780701 | 22372413 | 35084329 |
| RF | 403409.3055 55556 | 380911.583333 333 | 365862.5416666 67 | 372873.55 | 365461.76041 6667 |
| Last Area Residual | -0.146002 | 0.0792282 | 0.52211 | -0.791407 | 0.310392 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2904547 | 4570939 | 8780701 | 22372413 | 35084329 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 144 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:04
User: JJY
Instrument: Semi 1 (Offline)

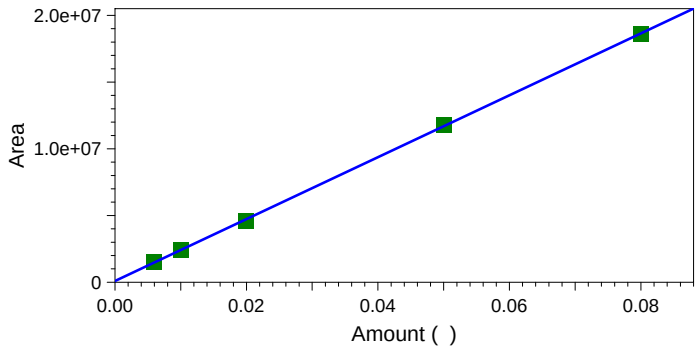
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:06
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #1 (back detector)
Average RF: 2.38633e+008 RF StDev: 9.63900e+006 RF %RSD: 4.03926
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.31837e+008x + 95390.9
Goodness of fit (r^2): 0.999811

Peak: Chlordane #1 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1524769 | 2406129 | 4582273 | 11814445 | 18641581 |
| RF | 254128166.666667 | 240612900 | 229113650 | 236288900 | 233019762.5 |
| Last Area | | | | | |
| Residual | -0.000165438 | 3.29299e-005 | 0.000646414 | -0.000548625 | 3.40571e-006 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1524769 | 2406129 | 4582273 | 11814445 | 18641581 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:06
User: JJY
Instrument: Semi 1 (Offline)

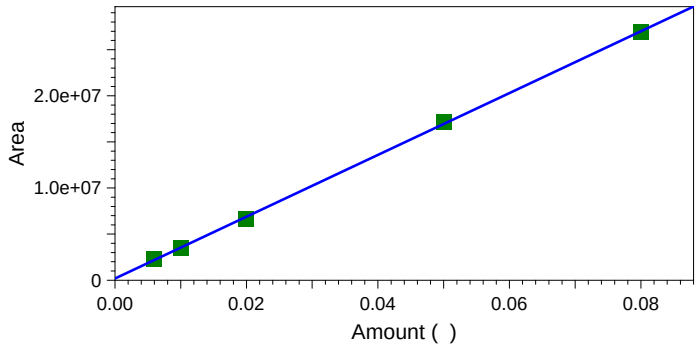
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:08
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #2 (back detector)
Average RF: 3.48000e+008 RF StDev: 1.72444e+007 RF %RSD: 4.95529
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 3.35189e+008x + 179675.
Goodness of fit (r^2): 0.999743

Peak: Chlordane #2 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 2257844 | 3507019 | 6649444 | 17170566 | 26968396 |
| RF | 376307333.333333 | 350701900 | 332472200 | 343411320 | 337104950 |
| Last Area Residual | -0.000199993 | 7.3227e-005 | 0.000698139 | -0.000690501 | 7.87241e-005 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2257844 | 3507019 | 6649444 | 17170566 | 26968396 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:08
User: JJY
Instrument: Semi 1 (Offline)

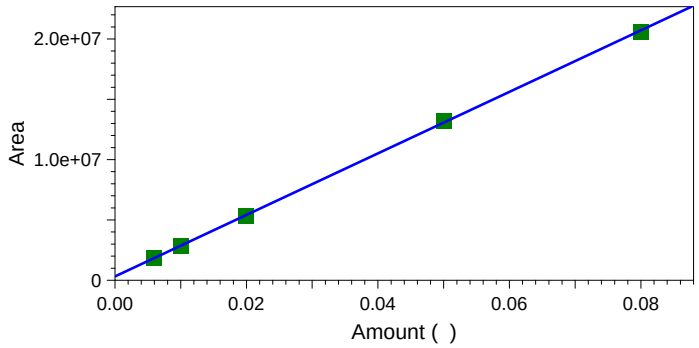
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:09
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #3 (back detector)
Average RF: 2.77596e+008 RF StDev: 2.12492e+007 RF %RSD: 7.65470
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.54988e+008x + 323208.
Goodness of fit (r^2): 0.999841

Peak: Chlordane #3 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1860511 | 2874604 | 5361018 | 13232747 | 20618367 |
| RF | 310085166.666667 | 287460400 | 268050900 | 264654940 | 257729587.5 |
| Last Area Residual | -2.89239e-005 | -5.94714e-006 | 0.000242949 | -0.000628036 | 0.00040738 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1860511 | 2874604 | 5361018 | 13232747 | 20618367 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:09
User: JJY
Instrument: Semi 1 (Offline)

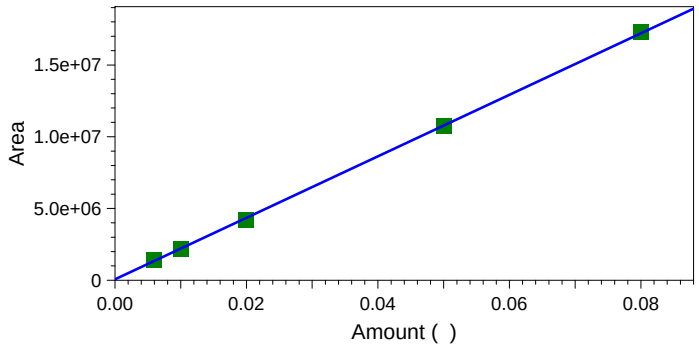
| | |
|---|---|
| Area | |
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:11
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #4 (back detector)
Average RF: 2.18725e+008 RF StDev: 8.05353e+006 RF %RSD: 3.68203
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.14336e+008x + 60912.6
Goodness of fit (r^2): 0.999806

Peak: Chlordane #4 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1393472 | 2185543 | 4220237 | 10755989 | 17335644 |
| RF | 232245333.333333 | 218554300 | 211011850 | 215119780 | 216695550 |
| Last Area Residual | -0.000217152 | 8.7384e-005 | 0.000594373 | 0.000101351 | -0.000596504 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1393472 | 2185543 | 4220237 | 10755989 | 17335644 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:11
User: JJY
Instrument: Semi 1 (Offline)

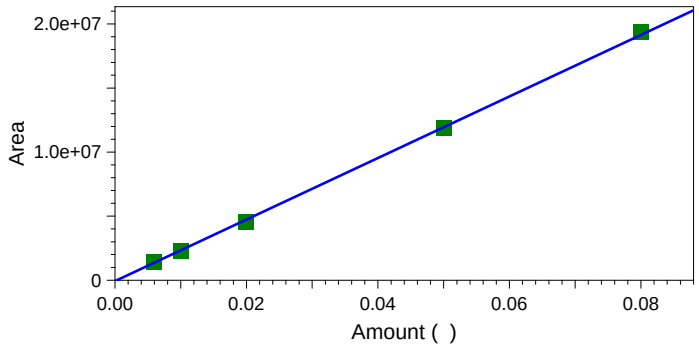
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:12
User: JJY
Instrument: Semi 1 (Offline)

Chlordane #5 (back detector)
Average RF: 2.35912e+008 RF StDev: 7.53882e+006 RF %RSD: 3.19561
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.40137e+008x - 63491.4
Goodness of fit (r^2): 0.999429

Peak: Chlordane #5 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1457787 | 2307197 | 4515475 | 11872147 | 19412645 |
| RF | 242964500 | 230719700 | 225773750 | 237442940 | 242658062.5 |
| Last Area | | | | | |
| Residual | -0.000335047 | 0.000127762 | 0.000931848 | 0.000296519 | -0.00110432 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1457787 | 2307197 | 4515475 | 11872147 | 19412645 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |
| RF | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:12
User: JJY
Instrument: Semi 1 (Offline)

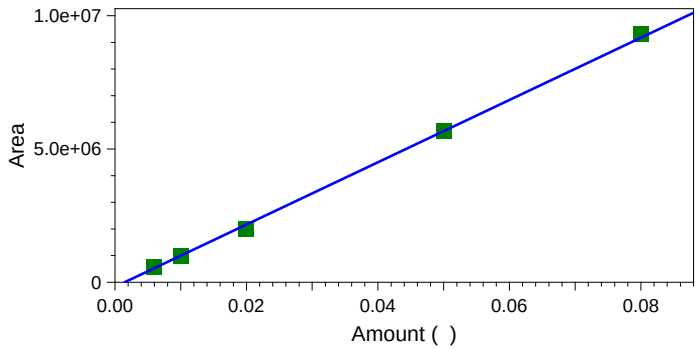
| | |
|---|---|
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:14
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #1 (back detector)
Average RF: 1.04932e+008 RF StDev: 9.43482e+006 RF %RSD: 8.99133
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.16814e+008x - 170101.
Goodness of fit (r^2): 0.998963

Peak: Toxaphene #1 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 572576 | 996564 | 1990857 | 5668055 | 9333795 |
| RF | 95429333.3333 | 99656400 | 99542850 | 113361100 | 116672437.5 |
| Last Area Residual | -0.000357763 | 1.26437e-005 | 0.0015009 | 2.18656e-005 | -0.00135908 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 572576 | 996564 | 1990857 | 5668055 | 9333795 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:14
User: JJY
Instrument: Semi 1 (Offline)

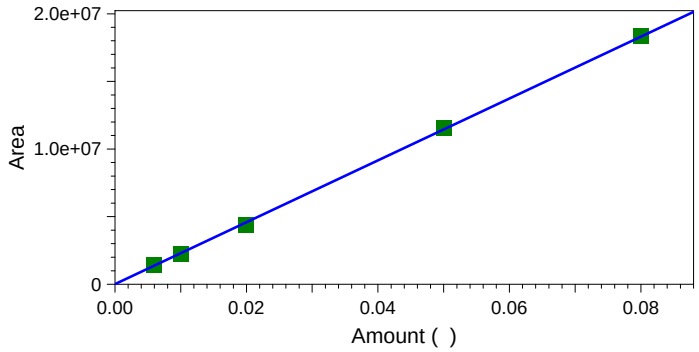
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:15
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #2 (back detector)
Average RF: 2.29367e+008 RF StDev: 7.96561e+006 RF %RSD: 3.47286
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 2.28862e+008x + 4145.89
Goodness of fit (r^2): 0.999719

Peak: Toxaphene #2 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 1446709 | 2255762 | 4388333 | 11539087 | 18395514 |
| RF | 241118166.666667 | 225576200 | 219416650 | 230781740 | 229943925 |
| Last Area Residual | -0.000303192 | 0.000161701 | 0.000843562 | -0.000401221 | -0.000359961 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 1446709 | 2255762 | 4388333 | 11539087 | 18395514 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:15
User: JJY
Instrument: Semi 1 (Offline)

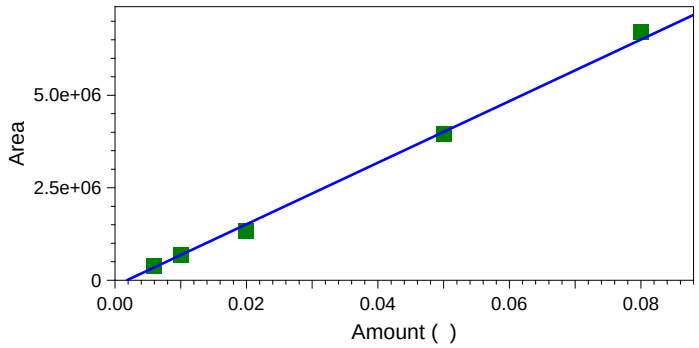
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:17
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #3 (back detector)
Average RF: 7.27951e+007 RF StDev: 8.35034e+006 RF %RSD: 11.4710
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 8.31749e+007x - 149507.
Goodness of fit (r^2): 0.997062

Peak: Toxaphene #3 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 391832 | 688225 | 1331124 | 3962668 | 6723035 |
| RF | 65305333.33 33333 | 68822500 | 66556200 | 79253360 | 84037937.5 |
| Last Area Residual | -0.000508442 | -7.19341e-005 | 0.00219858 | 0.000559888 | -0.00262763 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 391832 | 688225 | 1331124 | 3962668 | 6723035 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:17
User: JJY
Instrument: Semi 1 (Offline)

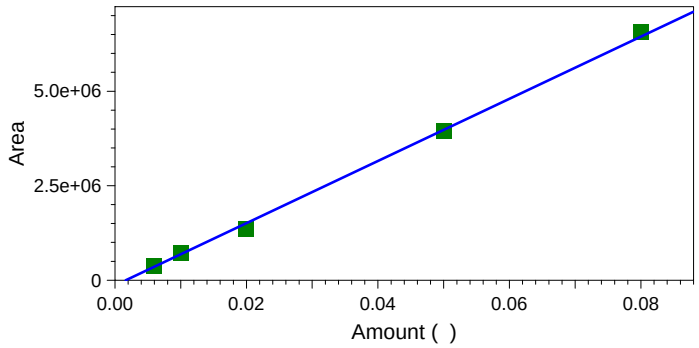
| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:19
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #4 (back detector)
Average RF: 7.29388e+007 RF StDev: 8.05285e+006 RF %RSD: 11.0406
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 8.22768e+007x - 134333.
Goodness of fit (r^2): 0.998516

Peak: Toxaphene #4 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 374415 | 725478 | 1365287 | 3960563 | 6581435 |
| RF | 62402500 | 72547800 | 68264350 | 79211260 | 82267937.5 |
| Last Area Residual | -0.000183369 | -0.000450223 | 0.00177347 | 0.000230231 | -0.00162411 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 374415 | 725478 | 1365287 | 3960563 | 6581435 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |
| RF | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:19
User: JJY
Instrument: Semi 1 (Offline)

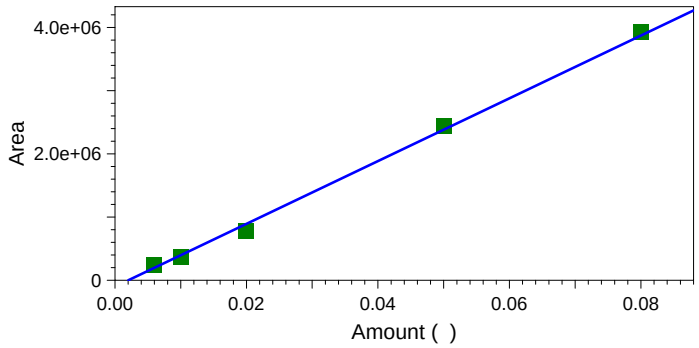
| | |
|---|---|
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:20
User: JJY
Instrument: Semi 1 (Offline)

Toxaphene #5 (back detector)
Average RF: 4.27313e+007 RF StDev: 5.73542e+006 RF %RSD: 13.4221
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 4.96547e+007x - 100460.
Goodness of fit (r^2): 0.997917

Peak: Toxaphene #5 -- ESTD -- back detector




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.006 | 0.01 | 0.02 | 0.05 | 0.08 |
| Area | 234304 | 375630 | 781841 | 2437600 | 3935905 |
| RF | 39050666.66 66667 | 37563000 | 39092050 | 48752000 | 49198812.5 |
| Last Area Residual | -0.000741838 | 0.000411985 | 0.00223127 | -0.00111421 | -0.0012887 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 234304 | 375630 | 781841 | 2437600 | 3935905 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 0.12 |
| Area | |

**Calibration Report**

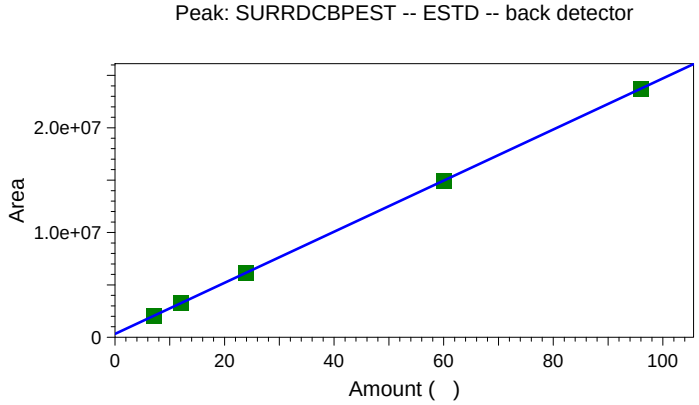
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:20
User: JJY
Instrument: Semi 1 (Offline)

| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

**Calibration Report**

Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:22
User: JJY
Instrument: Semi 1 (Offline)

SURRDCBPEST (back detector)
Average RF: 262099. RF StDev: 16062.3 RF %RSD: 6.12835
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 243919.x + 312627.
Goodness of fit (r^2): 0.999980




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 7.2 | 12 | 24 | 60 | 96 |
| Area | 2038004 | 3297559 | 6164474 | 14904003 | 23749337 |
| RF | 283056.1111 11111 | 274796.583333 333 | 256853.0833333 33 | 248400.05 | 247388.92708 3333 |
| Last Area Residual | 0.126428 | -0.237402 | 0.00903076 | 0.179354 | -0.0840948 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2038004 | 3297559 | 6164474 | 14904003 | 23749337 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi1\data\111419pstic\004.dat | C:\Instarch\Semi1\data\111419pstic\005.dat | C:\Instarch\Semi1\data\111419pstic\006.dat | C:\Instarch\Semi1\data\111419pstic\007.dat | C:\Instarch\Semi1\data\111419pstic\008.dat |
| Rep 1 Sample ID | TC ICAL 1 PP6033 | TC ICAL 2 PP6034 | TC ICAL 3 PP6035 | TC ICAL 4 PP6036 | TC ICAL 5 PP6037 |
| Rep 1 Calib. Time | 11/15/2019 11:38:18 | 11/15/2019 11:38:27 | 11/15/2019 11:38:42 | 11/15/2019 11:39:00 | 11/15/2019 11:39:14 |

| | Level 6 |
|---|---|
| Amount | 144 |
| Area | |

**Calibration Report**

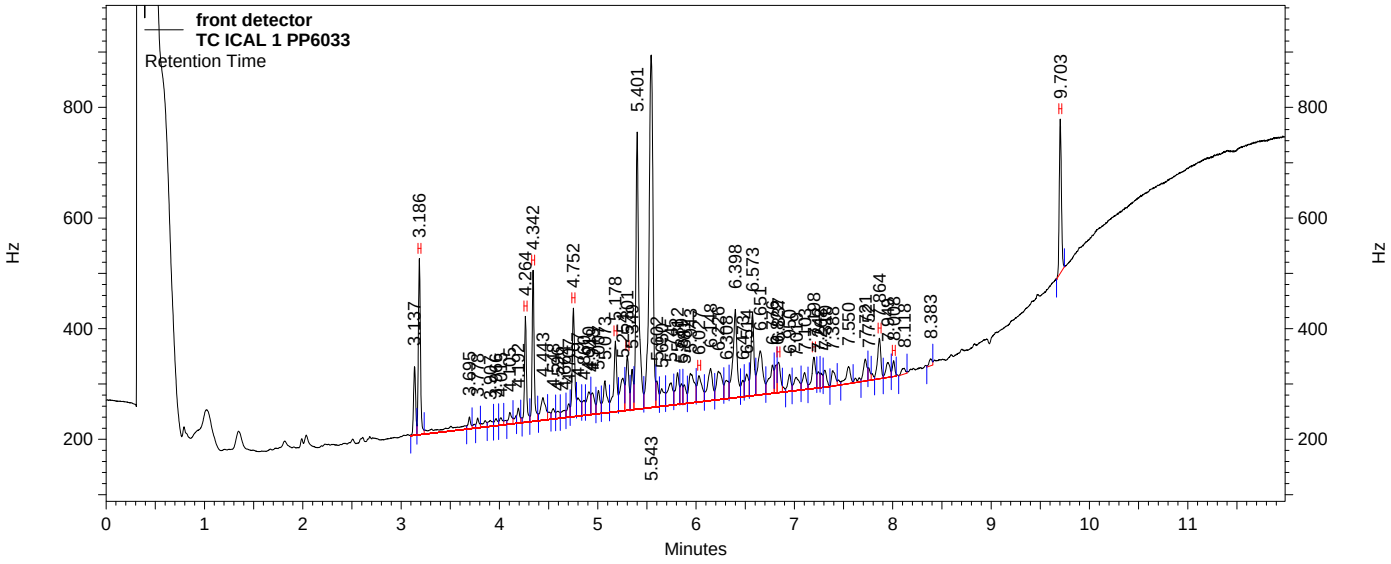
Method: C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
Print Time: 11/18/2019 09:06:22
User: JJY
Instrument: Semi 1 (Offline)

| | |
|---|---|
| RF | |
| Last Area | |
| Residual | N/A |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | |
| Rep 1 User | |
| Rep 1 Data File | |
| Rep 1 Sample ID | |
| Rep 1 Calib. Time | |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\004.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 1 PP6033
**Acquired:** 11/14/2019 16:49:42
**Printed:** 11/18/2019 08:41:21

**Data Summary: {Data Description}**



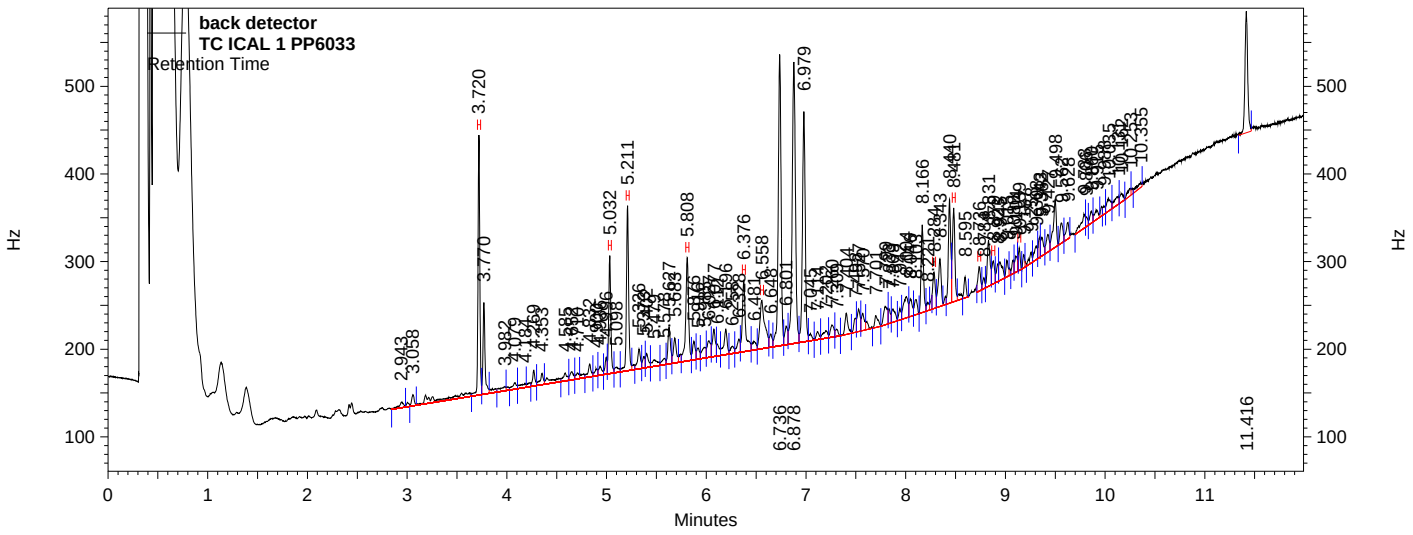

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.186 | 3664972 | 7.2000 CAL |
| Chlordane #1 | 4.264 | 2117570 | 0.0060 CAL |
| Chlordane #2 | 4.342 | 3059196 | 0.0060 CAL |
| Chlordane #3 | 4.752 | 2690292 | 0.0060 CAL |
| Chlordane #4 | 5.178 | 2205676 | 0.0060 CAL |
| Chlordane #5 | 5.301 | 1586246 | 0.0060 CAL |
| Toxaphene #1 | 6.027 | 1237174 | 0.0060 CAL |
| Toxaphene #2 | 6.837 | 948680 | 0.0060 CAL |
| Toxaphene #3 | 7.198 | 1144554 | 0.0060 CAL |
| Toxaphene #4 | 7.864 | 1319147 | 0.0060 CAL |
| Toxaphene #5 | 8.008 | 384992 | 0.0060 CAL |
| SURRDCBPEST | 9.703 | 3172603 | 7.2000 CAL |
| | | | |
| Chlordane | | 11658980 | 0.0300 CAL |
| Toxaphene | | 5034547 | 0.0300 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\004.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 1 PP6033
**Acquired:** 11/14/2019 16:49:42
**Printed:** 11/18/2019 08:41:21

**Data Summary: {Data Description}**



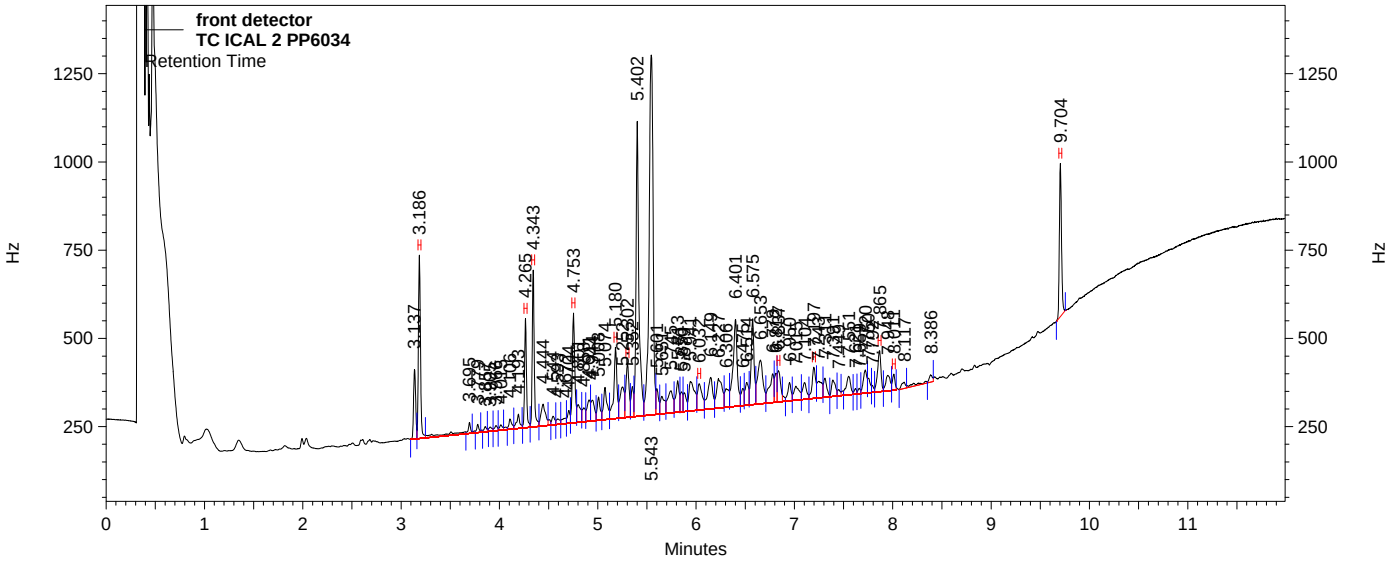

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 2904547 | 7.2000 CAL |
| Chlordane #1 | 5.032 | 1524769 | 0.0060 CAL |
| Chlordane #2 | 5.211 | 2257844 | 0.0060 CAL |
| Chlordane #3 | 5.808 | 1860511 | 0.0060 CAL |
| Chlordane #4 | 6.376 | 1393472 | 0.0060 CAL |
| Chlordane #5 | 6.558 | 1457787 | 0.0060 CAL |
| Toxaphene #1 | 8.284 | 572576 | 0.0060 CAL |
| Toxaphene #2 | 8.481 | 1446709 | 0.0060 CAL |
| Toxaphene #3 | 8.736 | 391832 | 0.0060 CAL |
| Toxaphene #4 | 8.879 | 374415 | 0.0060 CAL |
| Toxaphene #5 | 9.139 | 234304 | 0.0060 CAL |
| SURRDCBPEST | 11.416 | 2038004 | 7.2000 CAL |
| | | | |
| Chlordane | | 8494383 | 0.0300 CAL |
| Toxaphene | | 3019836 | 0.0300 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\005.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 2 PP6034
**Acquired:** 11/14/2019 17:05:56
**Printed:** 11/18/2019 08:41:24

**Data Summary: {Data Description}**



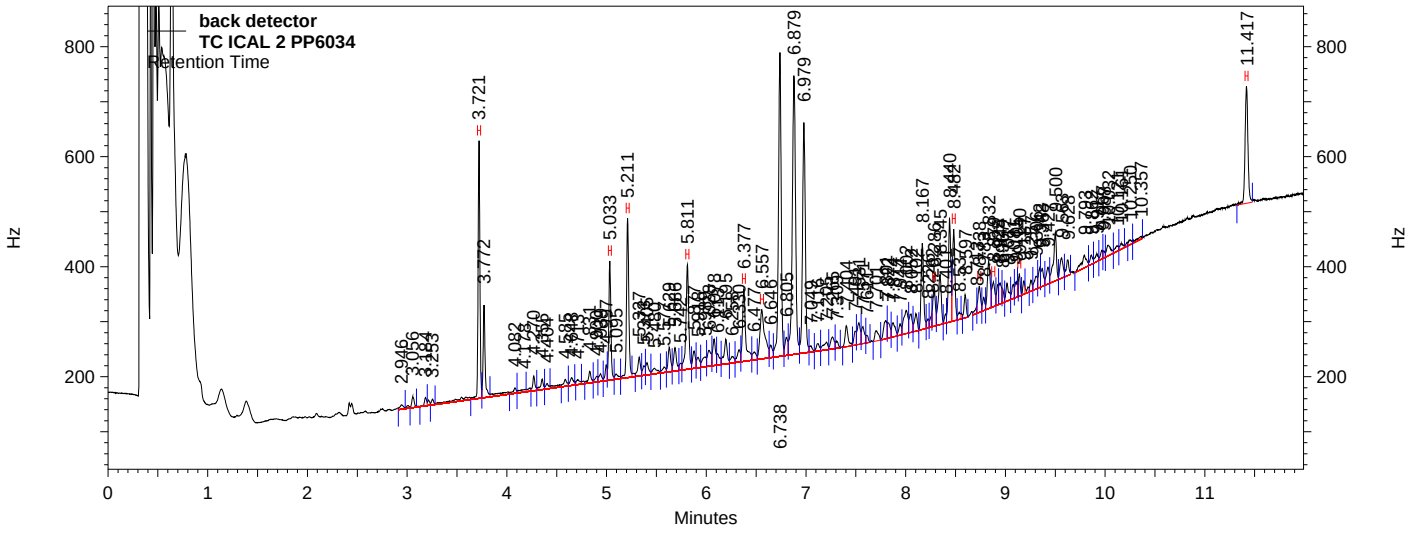

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.186 | 5904550 | 12.0000 CAL |
| Chlordane #1 | 4.265 | 3238813 | 0.0100 CAL |
| Chlordane #2 | 4.343 | 4872890 | 0.0100 CAL |
| Chlordane #3 | 4.753 | 4193709 | 0.0100 CAL |
| Chlordane #4 | 5.180 | 3421424 | 0.0100 CAL |
| Chlordane #5 | 5.302 | 2595590 | 0.0100 CAL |
| Toxaphene #1 | 6.032 | 1845651 | 0.0100 CAL |
| Toxaphene #2 | 6.837 | 1567793 | 0.0100 CAL |
| Toxaphene #3 | 7.197 | 1639633 | 0.0100 CAL |
| Toxaphene #4 | 7.865 | 2159391 | 0.0100 CAL |
| Toxaphene #5 | 8.011 | 624526 | 0.0100 CAL |
| SURRDCBPEST | 9.704 | 4951690 | 12.0000 CAL |
| | | | |
| Chlordane | | 18322426 | 0.0500 CAL |
| Toxaphene | | 7836994 | 0.0500 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\005.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 2 PP6034
**Acquired:** 11/14/2019 17:05:56
**Printed:** 11/18/2019 08:41:24

**Data Summary: {Data Description}**



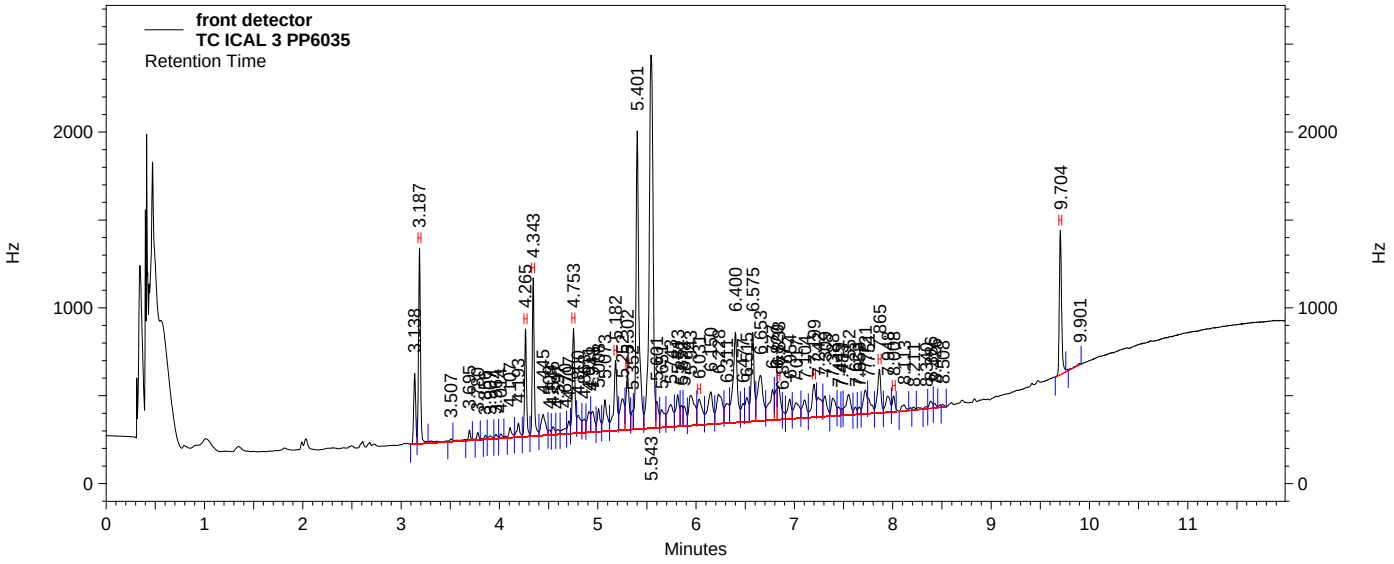

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.721 | 4570939 | 12.0000 CAL |
| Chlordane #1 | 5.033 | 2406129 | 0.0100 CAL |
| Chlordane #2 | 5.211 | 3507019 | 0.0100 CAL |
| Chlordane #3 | 5.811 | 2874604 | 0.0100 CAL |
| Chlordane #4 | 6.377 | 2185543 | 0.0100 CAL |
| Chlordane #5 | 6.557 | 2307197 | 0.0100 CAL |
| Toxaphene #1 | 8.286 | 996564 | 0.0100 CAL |
| Toxaphene #2 | 8.482 | 2255762 | 0.0100 CAL |
| Toxaphene #3 | 8.738 | 688225 | 0.0100 CAL |
| Toxaphene #4 | 8.879 | 725478 | 0.0100 CAL |
| Toxaphene #5 | 9.140 | 375630 | 0.0100 CAL |
| SURRDCBPEST | 11.417 | 3297559 | 12.0000 CAL |
| | | | |
| Chlordane | | 13280492 | 0.0500 CAL |
| Toxaphene | | 5041659 | 0.0500 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\006.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 3 PP6035
**Acquired:** 11/14/2019 17:22:10
**Printed:** 11/18/2019 08:41:27

**Data Summary: {Data Description}**



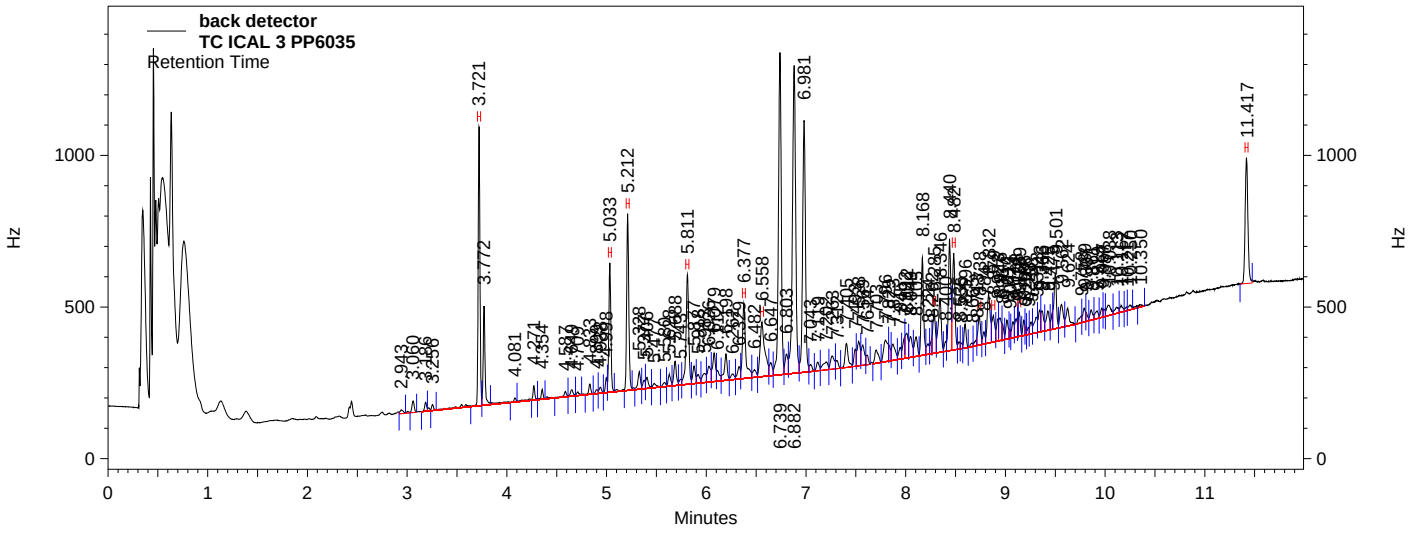

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.187 | 11878633 | 24.0000 CAL |
| Chlordane #1 | 4.265 | 6423536 | 0.0200 CAL |
| Chlordane #2 | 4.343 | 9759729 | 0.0200 CAL |
| Chlordane #3 | 4.753 | 8166462 | 0.0200 CAL |
| Chlordane #4 | 5.182 | 6900731 | 0.0200 CAL |
| Chlordane #5 | 5.302 | 5281701 | 0.0200 CAL |
| Toxaphene #1 | 6.031 | 3842743 | 0.0200 CAL |
| Toxaphene #2 | 6.838 | 3433137 | 0.0200 CAL |
| Toxaphene #3 | 7.199 | 3850536 | 0.0200 CAL |
| Toxaphene #4 | 7.865 | 4596130 | 0.0200 CAL |
| Toxaphene #5 | 8.008 | 1310705 | 0.0200 CAL |
| SURRDCBPEST | 9.704 | 9856742 | 24.0000 CAL |
| | | | |
| Chlordane | | 36532159 | 0.1000 CAL |
| Toxaphene | | 17033251 | 0.1000 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\006.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 3 PP6035
**Acquired:** 11/14/2019 17:22:10
**Printed:** 11/18/2019 08:41:27

**Data Summary: {Data Description}**



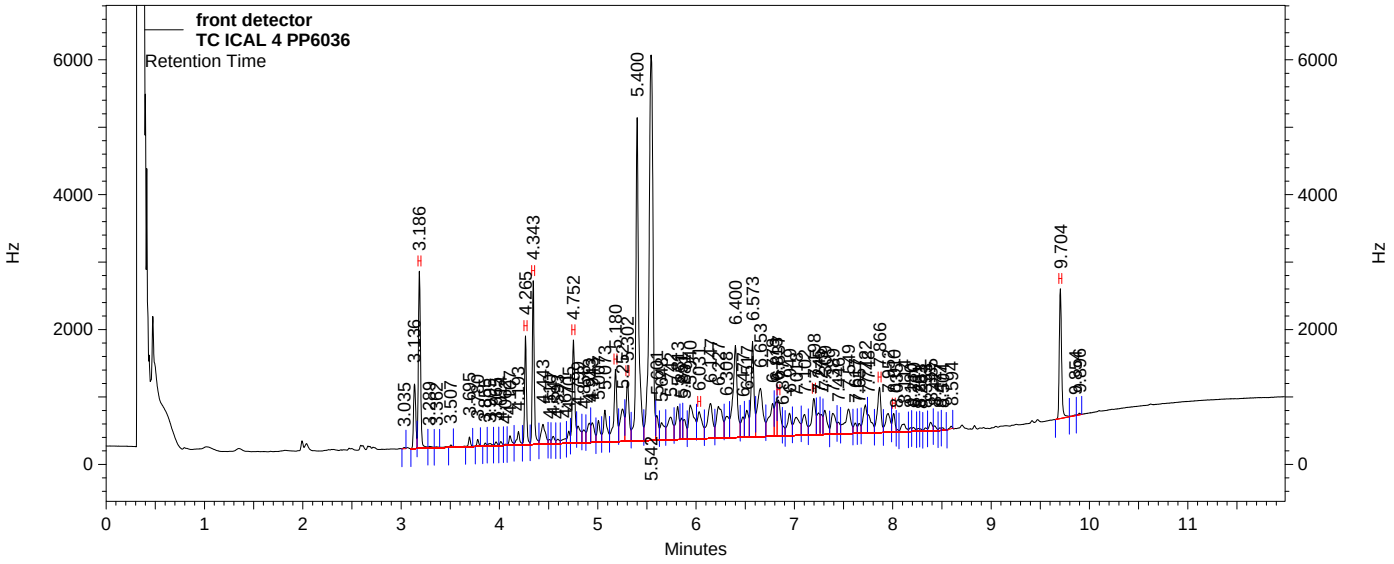

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.721 | 8780701 | 24.0000 CAL |
| Chlordane #1 | 5.033 | 4582273 | 0.0200 CAL |
| Chlordane #2 | 5.212 | 6649444 | 0.0200 CAL |
| Chlordane #3 | 5.811 | 5361018 | 0.0200 CAL |
| Chlordane #4 | 6.377 | 4220237 | 0.0200 CAL |
| Chlordane #5 | 6.558 | 4515475 | 0.0200 CAL |
| Toxaphene #1 | 8.285 | 1990857 | 0.0200 CAL |
| Toxaphene #2 | 8.482 | 4388333 | 0.0200 CAL |
| Toxaphene #3 | 8.738 | 1331124 | 0.0200 CAL |
| Toxaphene #4 | 8.879 | 1365287 | 0.0200 CAL |
| Toxaphene #5 | 9.139 | 781841 | 0.0200 CAL |
| SURRDCBPEST | 11.417 | 6164474 | 24.0000 CAL |
| | | | |
| Chlordane | | 25328447 | 0.1000 CAL |
| Toxaphene | | 9857442 | 0.1000 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\007.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 4 PP6036
**Acquired:** 11/14/2019 17:38:32
**Printed:** 11/18/2019 08:41:30

**Data Summary: {Data Description}**



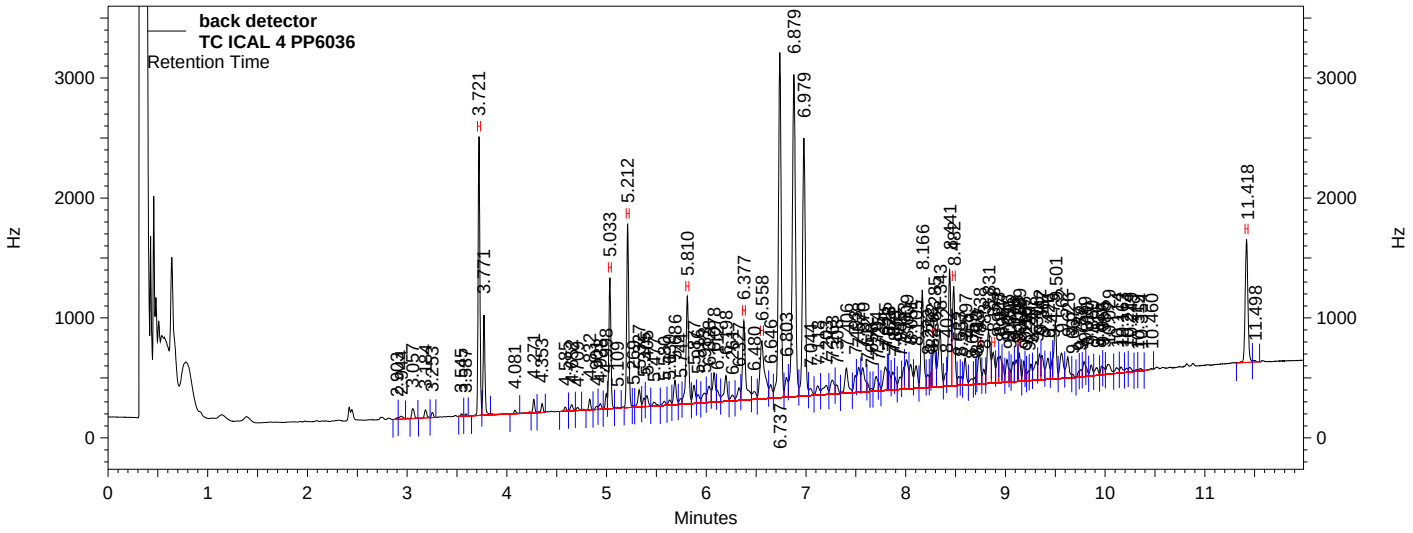

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.186 | 31075268 | 60.0000 CAL |
| Chlordane #1 | 4.265 | 16591500 | 0.0500 CAL |
| Chlordane #2 | 4.343 | 25635193 | 0.0500 CAL |
| Chlordane #3 | 4.752 | 20485065 | 0.0500 CAL |
| Chlordane #4 | 5.180 | 17636452 | 0.0500 CAL |
| Chlordane #5 | 5.302 | 14839503 | 0.0500 CAL |
| Toxaphene #1 | 6.031 | 10512348 | 0.0500 CAL |
| Toxaphene #2 | 6.837 | 9427123 | 0.0500 CAL |
| Toxaphene #3 | 7.198 | 11390106 | 0.0500 CAL |
| Toxaphene #4 | 7.866 | 13247467 | 0.0500 CAL |
| Toxaphene #5 | 8.010 | 3939648 | 0.0500 CAL |
| SURRDCBPEST | 9.704 | 23524296 | 60.0000 CAL |
| | | | |
| Chlordane | | 95187713 | 0.2500 CAL |
| Toxaphene | | 48516692 | 0.2500 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\007.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 4 PP6036
**Acquired:** 11/14/2019 17:38:32
**Printed:** 11/18/2019 08:41:30

**Data Summary: {Data Description}**



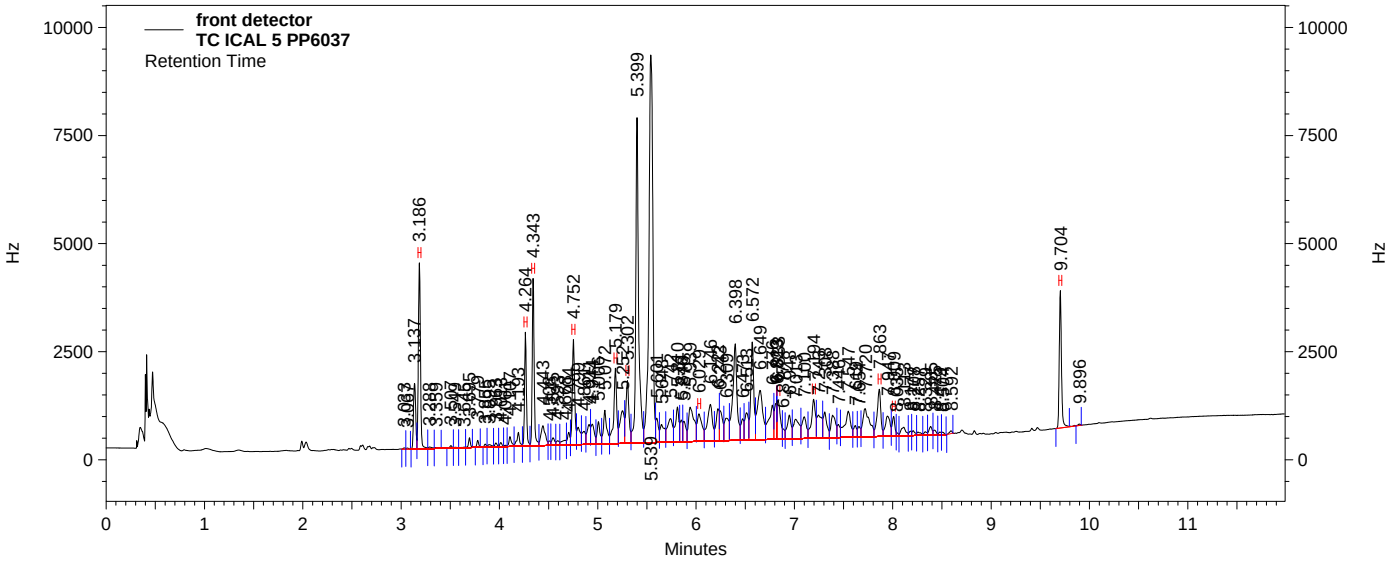

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.721 | 22372413 | 60.0000 CAL |
| Chlordane #1 | 5.033 | 11814445 | 0.0500 CAL |
| Chlordane #2 | 5.212 | 17170566 | 0.0500 CAL |
| Chlordane #3 | 5.810 | 13232747 | 0.0500 CAL |
| Chlordane #4 | 6.377 | 10755989 | 0.0500 CAL |
| Chlordane #5 | 6.558 | 11872147 | 0.0500 CAL |
| Toxaphene #1 | 8.285 | 5668055 | 0.0500 CAL |
| Toxaphene #2 | 8.482 | 11539087 | 0.0500 CAL |
| Toxaphene #3 | 8.738 | 3962668 | 0.0500 CAL |
| Toxaphene #4 | 8.878 | 3960563 | 0.0500 CAL |
| Toxaphene #5 | 9.139 | 2437600 | 0.0500 CAL |
| SURRDCBPEST | 11.418 | 14904003 | 60.0000 CAL |
| | | | |
| Chlordane | | 64845894 | 0.2500 CAL |
| Toxaphene | | 27567973 | 0.2500 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\008.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 5 PP6037
**Acquired:** 11/14/2019 17:54:49
**Printed:** 11/18/2019 08:41:34

**Data Summary: {Data Description}**



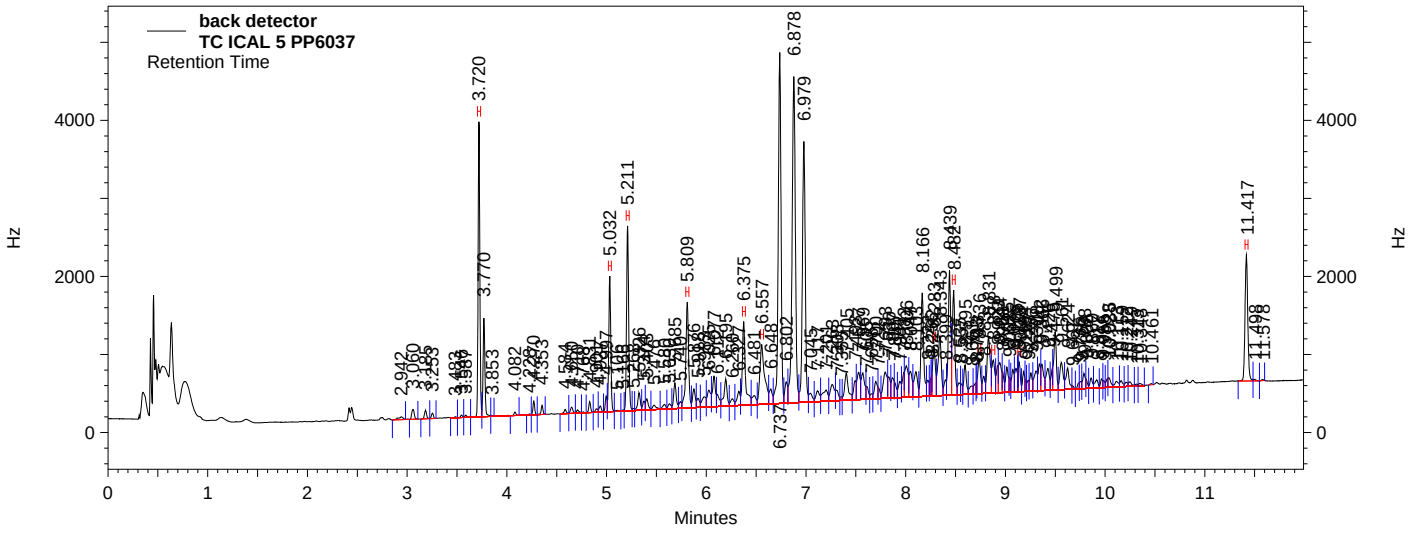

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.186 | 49555445 | 96.0000 CAL |
| Chlordane #1 | 4.264 | 26436295 | 0.0800 CAL |
| Chlordane #2 | 4.343 | 40993137 | 0.0800 CAL |
| Chlordane #3 | 4.752 | 31985630 | 0.0800 CAL |
| Chlordane #4 | 5.179 | 27976242 | 0.0800 CAL |
| Chlordane #5 | 5.302 | 23827003 | 0.0800 CAL |
| Toxaphene #1 | 6.029 | 16820686 | 0.0800 CAL |
| Toxaphene #2 | 6.833 | 15294674 | 0.0800 CAL |
| Toxaphene #3 | 7.194 | 19477381 | 0.0800 CAL |
| Toxaphene #4 | 7.863 | 21858182 | 0.0800 CAL |
| Toxaphene #5 | 8.009 | 6672213 | 0.0800 CAL |
| SURRDCBPEST | 9.704 | 37365463 | 96.0000 CAL |
| | | | |
| Chlordane | | 151218307 | 0.4000 CAL |
| Toxaphene | | 80123136 | 0.4000 CAL |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\008.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICAL 5 PP6037
**Acquired:** 11/14/2019 17:54:49
**Printed:** 11/18/2019 08:41:34

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 35084329 | 96.0000 CAL |
| Chlordane #1 | 5.032 | 18641581 | 0.0800 CAL |
| Chlordane #2 | 5.211 | 26968396 | 0.0800 CAL |
| Chlordane #3 | 5.809 | 20618367 | 0.0800 CAL |
| Chlordane #4 | 6.375 | 17335644 | 0.0800 CAL |
| Chlordane #5 | 6.557 | 19412645 | 0.0800 CAL |
| Toxaphene #1 | 8.283 | 9333795 | 0.0800 CAL |
| Toxaphene #2 | 8.482 | 18395514 | 0.0800 CAL |
| Toxaphene #3 | 8.736 | 6723035 | 0.0800 CAL |
| Toxaphene #4 | 8.878 | 6581435 | 0.0800 CAL |
| Toxaphene #5 | 9.137 | 3935905 | 0.0800 CAL |
| SURRDCBPEST | 11.417 | 23749337 | 96.0000 CAL |
| | | | |
| Chlordane | | 102976633 | 0.4000 CAL |
| Toxaphene | | 44969684 | 0.4000 CAL |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\111419pstic.seq
**User :** JJY
**Printed :** 11/18/2019 08:41:42

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\111419pstic\010.dat | TC ICV PP6039 | 11/18/2019 08:41:42 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 60.234 | 0.389 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.052 | 3.353 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.051 | 2.990 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.052 | 3.772 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.052 | 4.220 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.052 | 3.137 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.052 | 3.366 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.052 | 4.710 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.052 | 3.188 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.051 | 1.861 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.050 | 0.834 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 62.945 | 4.909 | 20.000 | Passed |
| Chlordane | 0.250 | 0.259 | 3.495 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.256 | 2.458 | 20.000 | Passed |

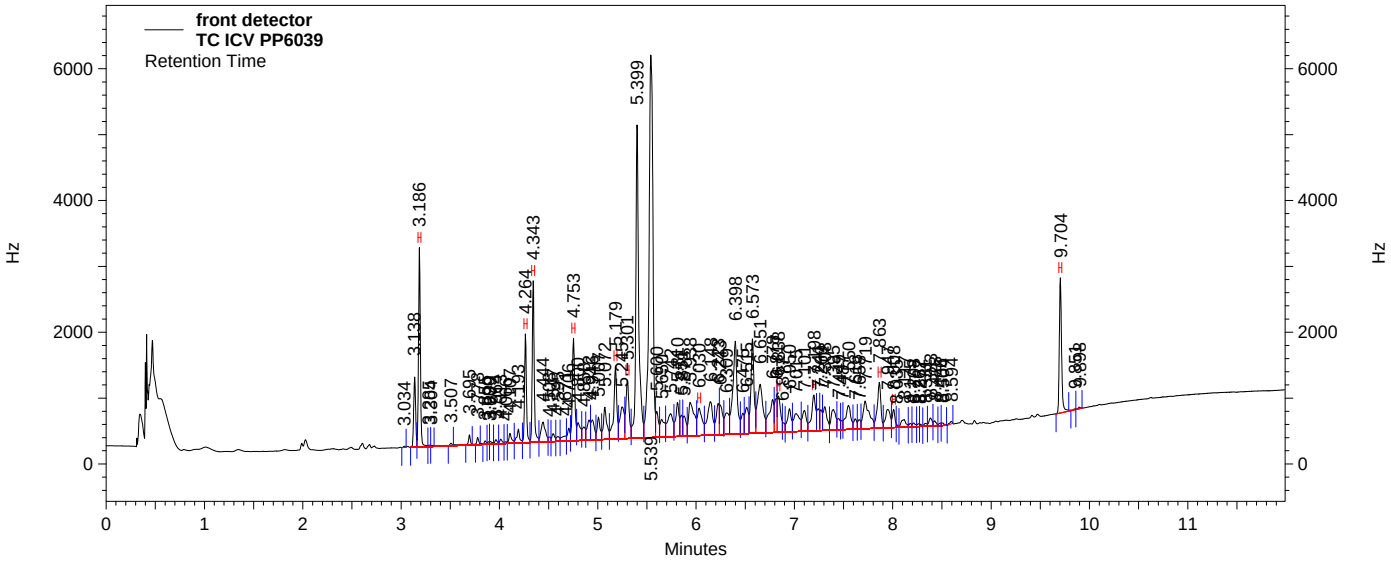
**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 60.308 | 0.513 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.051 | 2.421 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.052 | 3.047 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.051 | 2.884 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.051 | 1.791 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.050 | 0.185 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.050 | 0.611 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.051 | 1.876 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.049 | 1.498 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.050 | 0.265 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.051 | 2.271 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 62.489 | 4.149 | 20.000 | Passed |
| Chlordane | 0.250 | 0.255 | 2.065 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.251 | 0.354 | 20.000 | Passed |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\010.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICV PP6039
**Acquired:** 11/14/2019 18:27:30
**Printed:** 11/18/2019 08:41:40

**Data Summary: {Data Description}**



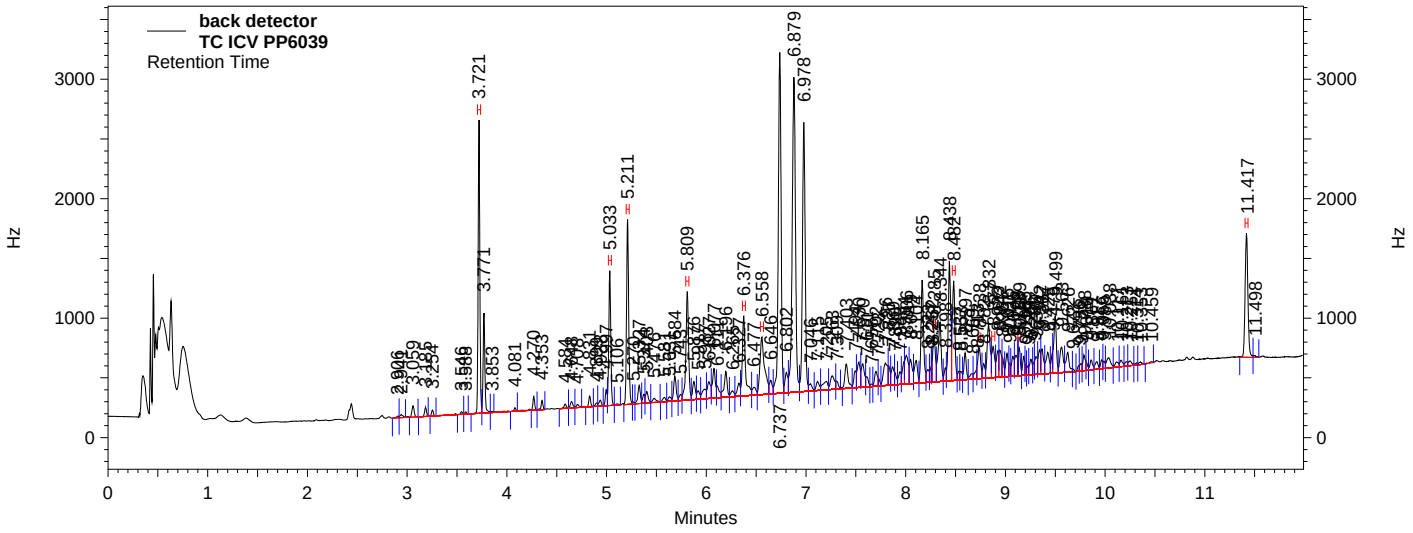

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.186 | 30960996 | 60.2337 |
| Chlordane #1 | 4.264 | 17034127 | 0.0517 |
| Chlordane #2 | 4.343 | 26234039 | 0.0515 |
| Chlordane #3 | 4.753 | 20956575 | 0.0519 |
| Chlordane #4 | 5.179 | 18233319 | 0.0521 |
| Chlordane #5 | 5.301 | 15124250 | 0.0516 |
| Toxaphene #1 | 6.030 | 10738741 | 0.0517 |
| Toxaphene #2 | 6.838 | 9833512 | 0.0524 |
| Toxaphene #3 | 7.198 | 11916618 | 0.0516 |
| Toxaphene #4 | 7.863 | 13483785 | 0.0509 |
| Toxaphene #5 | 8.008 | 3935700 | 0.0496 |
| SURRDCBPEST | 9.704 | 24690399 | 62.9452 |
| | | | |
| Chlordane | | 97582310 | 0.2587 |
| Toxaphene | | 49908356 | 0.2561 |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\111419pstic\010.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\111419tcic.met
**User:** JJY
**Sample ID:** TC ICV PP6039
**Acquired:** 11/14/2019 18:27:30
**Printed:** 11/18/2019 08:41:40

**Data Summary: {Data Description}**



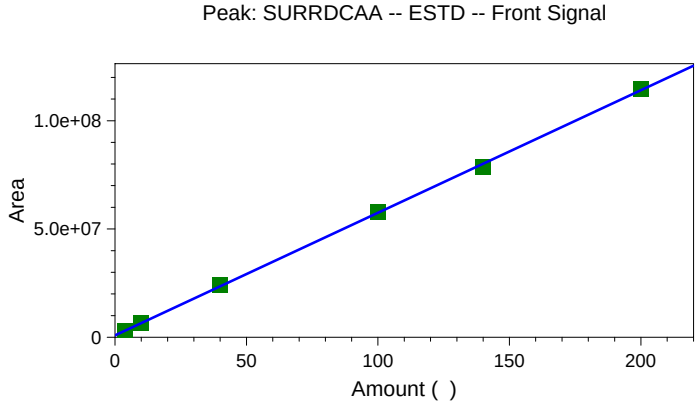

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.721 | 22196179 | 60.3076 |
| Chlordane #1 | 5.033 | 11967904 | 0.0512 |
| Chlordane #2 | 5.211 | 17449742 | 0.0515 |
| Chlordane #3 | 5.809 | 13440236 | 0.0514 |
| Chlordane #4 | 6.376 | 10969602 | 0.0509 |
| Chlordane #5 | 6.558 | 11965565 | 0.0501 |
| Toxaphene #1 | 8.285 | 5634903 | 0.0497 |
| Toxaphene #2 | 8.482 | 11661951 | 0.0509 |
| Toxaphene #3 | 8.738 | 3946933 | 0.0493 |
| Toxaphene #4 | 8.877 | 3968585 | 0.0499 |
| Toxaphene #5 | 9.139 | 2438656 | 0.0511 |
| SURRDCBPEST | 11.417 | 15554941 | 62.4893 |
| | | | |
| Chlordane | | 65793049 | 0.2552 |
| Toxaphene | | 27651028 | 0.2509 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:30
User: JJY
Instrument: Semi 6

SURRDCAA (Front Signal)
Average RF: 621051. RF StDev: 72942.1 RF %RSD: 11.7449
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 566252.x + 836010.
Goodness of fit (r^2): 0.999628




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 4 | 10 | 40 | 100 | 140 |
| Area | 3000305 | 6637583 | 23961867 | 57844502 | 78488614 |
| RF | 750076.25 | 663758.3 | 599046.675 | 578445.02 | 560632.95714 2857 |
| Last Area Residual | 0.17786 | -0.245564 | -0.840209 | -0.676862 | 2.86568 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 3000305 | 6637583 | 23961867 | 57844502 | 78488614 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\004.dat | C:\Instarch\Semi6\Data\110719hrbic\005.dat | C:\Instarch\Semi6\Data\110719hrbic\006.dat | C:\Instarch\Semi6\Data\110719hrbic\007.dat | C:\Instarch\Semi6\Data\110719hrbic\008.dat |
| Rep 1 Sample ID | AH ICAL 1 PP 6076 | AH ICAL 2 PP 6077 | AH ICAL 3 PP 6078 | AH ICAL 4 PP 6079 | AH ICAL 5 PP 6080 |
| Rep 1 Calib. Time | 11/07/2019 15:27:46 | 11/07/2019 15:27:55 | 11/07/2019 15:28:04 | 11/07/2019 15:28:13 | 11/07/2019 15:49:03 |

| | Level 6 |
|---|---|
| Amount | 200 |
| Area | 114868921 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:30
User: JJY
Instrument: Semi 6

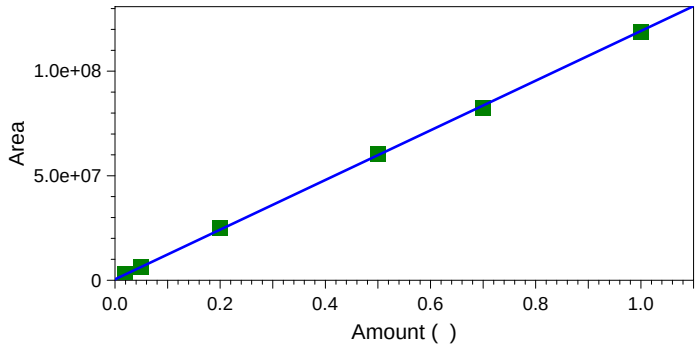
| | |
|---|---|
| RF | 574344.605 |
| Last Area | |
| Residual | -1.38185 |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | 114868921 |
| Rep 1 User | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\009.dat |
| Rep 1 Sample ID | AH ICAL 6 PP 6081 |
| Rep 1 Calib. Time | 11/07/2019 16:01:24 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:32
User: JJY
Instrument: Semi 6

2,4-D (Front Signal)
Average RF: 1.24626e+008 RF StDev: 7.14567e+006 RF %RSD: 5.73370
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.18824e+008x + 441426.
Goodness of fit (r^2): 0.999750

Peak: 2,4-D -- ESTD -- Front Signal




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.02 | 0.05 | 0.2 | 0.5 | 0.7 |
| Area | 2742862 | 6363417 | 25095933 | 60526470 | 82453473 |
| RF | 137143100 | 127268340 | 125479665 | 121052940 | 117790675.714286 |
| Last Area Residual | 0.000631575 | 0.000161713 | -0.00748737 | -0.00566363 | 0.00980312 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2742862 | 6363417 | 25095933 | 60526470 | 82453473 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\004.dat | C:\Instarch\Semi6\Data\110719hrbic\005.dat | C:\Instarch\Semi6\Data\110719hrbic\006.dat | C:\Instarch\Semi6\Data\110719hrbic\007.dat | C:\Instarch\Semi6\Data\110719hrbic\008.dat |
| Rep 1 Sample ID | AH ICAL 1 PP 6076 | AH ICAL 2 PP 6077 | AH ICAL 3 PP 6078 | AH ICAL 4 PP 6079 | AH ICAL 5 PP 6080 |
| Rep 1 Calib. Time | 11/07/2019 15:27:46 | 11/07/2019 15:27:55 | 11/07/2019 15:28:04 | 11/07/2019 15:28:13 | 11/07/2019 15:49:03 |

| | Level 6 |
|---|---|
| Amount | 1 |
| Area | 119020111 |

**Calibration Report**

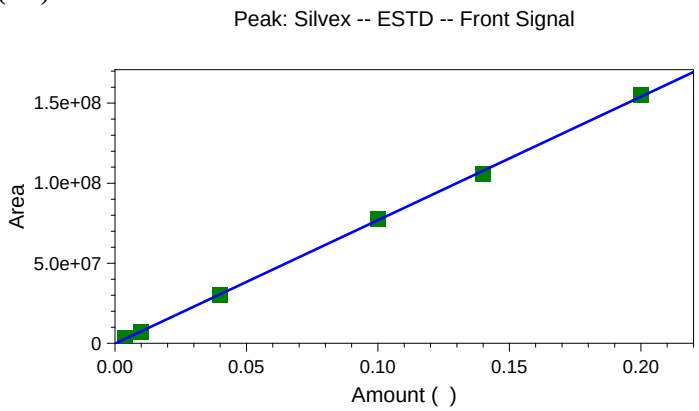
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:32
User: JJY
Instrument: Semi 6

| | |
|---|---|
| RF | 119020111 |
| Last Area | |
| Residual | 0.00206566 |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | 119020111 |
| Rep 1 User | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\009.dat |
| Rep 1 Sample ID | AH ICAL 6 PP 6081 |
| Rep 1 Calib. Time | 11/07/2019 16:01:24 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:33
User: JJY
Instrument: Semi 6

Silvex (Front Signal)
Average RF: 7.56274e+008 RF StDev: 2.52109e+007 RF %RSD: 3.33357
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 7.71372e+008x - 235660.
Goodness of fit (r^2): 0.999682




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.004 | 0.01 | 0.04 | 0.1 | 0.14 |
| Area | 3024815 | 7085645 | 30448568 | 77730209 | 106014584 |
| RF | 756203750 | 708564500 | 761214200 | 777302090 | 757247028.57 1429 |
| Last Area Residual | -0.000226853 | 0.00050872 | 0.000221215 | -0.00107432 | 0.00225804 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 3024815 | 7085645 | 30448568 | 77730209 | 106014584 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\004.dat | C:\Instarch\Semi6\Data\110719hrbic\005.dat | C:\Instarch\Semi6\Data\110719hrbic\006.dat | C:\Instarch\Semi6\Data\110719hrbic\007.dat | C:\Instarch\Semi6\Data\110719hrbic\008.dat |
| Rep 1 Sample ID | AH ICAL 1 PP 6076 | AH ICAL 2 PP 6077 | AH ICAL 3 PP 6078 | AH ICAL 4 PP 6079 | AH ICAL 5 PP 6080 |
| Rep 1 Calib. Time | 11/07/2019 15:27:46 | 11/07/2019 15:27:55 | 11/07/2019 15:28:04 | 11/07/2019 15:28:13 | 11/07/2019 15:49:03 |

| | Level 6 |
|---|---|
| Amount | 0.2 |
| Area | 155422404 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:33
User: JJY
Instrument: Semi 6

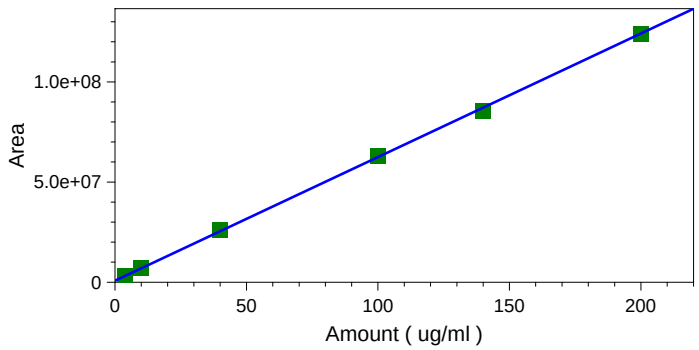
| | |
|---|---|
| RF | 777112020 |
| Last Area | |
| Residual | -0.00179386 |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | 155422404 |
| Rep 1 User | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\009.dat |
| Rep 1 Sample ID | AH ICAL 6 PP 6081 |
| Rep 1 Calib. Time | 11/07/2019 16:01:24 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:39
User: JJY
Instrument: Semi 6

SURRDCAA (Back Signal)
Average RF: 670195. RF StDev: 66898.4 RF %RSD: 9.98193
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 616907.x + 815626.
Goodness of fit (r^2): 0.999716

Peak: SURRDCAA -- ESTD -- Back Signal




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 4 | 10 | 40 | 100 | 140 |
| Area | 3139267 | 7134004 | 26296170 | 63219583 | 85741940 |
| RF | 784816.75 | 713400.4 | 657404.25 | 632195.83 | 612442.42857 1429 |
| Last Area Residual | 0.233403 | -0.242021 | -1.30368 | -1.15612 | 2.33539 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 3139267 | 7134004 | 26296170 | 63219583 | 85741940 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\004.dat | C:\Instarch\Semi6\Data\110719hrbic\005.dat | C:\Instarch\Semi6\Data\110719hrbic\006.dat | C:\Instarch\Semi6\Data\110719hrbic\007.dat | C:\Instarch\Semi6\Data\110719hrbic\008.dat |
| Rep 1 Sample ID | AH ICAL 1 PP 6076 | AH ICAL 2 PP 6077 | AH ICAL 3 PP 6078 | AH ICAL 4 PP 6079 | AH ICAL 5 PP 6080 |
| Rep 1 Calib. Time | 11/07/2019 15:27:46 | 11/07/2019 15:27:55 | 11/07/2019 15:28:04 | 11/07/2019 15:28:13 | 11/07/2019 15:49:03 |

| | Level 6 |
|---|---|
| Amount | 200 |
| Area | 124181618 |

**Calibration Report**

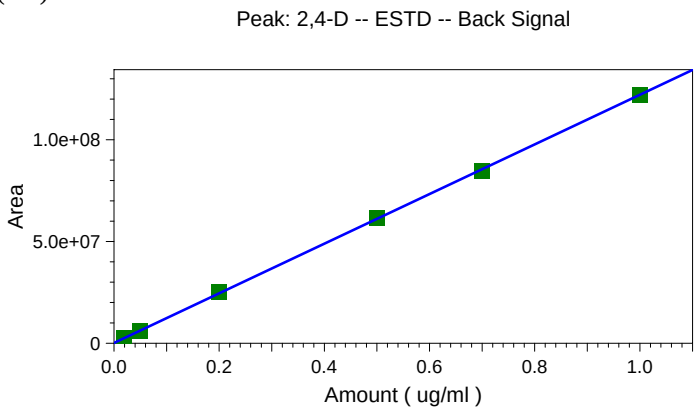
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:39
User: JJY
Instrument: Semi 6

| | |
|---|---|
| RF | 620908.09 |
| Last Area | |
| Residual | 0.0250984 |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | 124181618 |
| Rep 1 User | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\009.dat |
| Rep 1 Sample ID | AH ICAL 6 PP 6081 |
| Rep 1 Calib. Time | 11/07/2019 16:01:24 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:40
User: JJY
Instrument: Semi 6

2,4-D (Back Signal)
Average RF: 1.23709e+008 RF StDev: 3.01556e+006 RF %RSD: 2.43764
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 1.22012e+008x + 126559.
Goodness of fit (r^2): 0.999896




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.02 | 0.05 | 0.2 | 0.5 | 0.7 |
| Area | 2583883 | 6087928 | 24991313 | 61564747 | 84670418 |
| RF | 129194150 | 121758560 | 124956565 | 123129494 | 120957740 |
| Last Area Residual | -0.000140019 | 0.00114113 | -0.00378939 | -0.0035421 | 0.00708581 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2583883 | 6087928 | 24991313 | 61564747 | 84670418 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\004.dat | C:\Instarch\Semi6\Data\110719hrbic\005.dat | C:\Instarch\Semi6\Data\110719hrbic\006.dat | C:\Instarch\Semi6\Data\110719hrbic\007.dat | C:\Instarch\Semi6\Data\110719hrbic\008.dat |
| Rep 1 Sample ID | AH ICAL 1 PP 6076 | AH ICAL 2 PP 6077 | AH ICAL 3 PP 6078 | AH ICAL 4 PP 6079 | AH ICAL 5 PP 6080 |
| Rep 1 Calib. Time | 11/07/2019 15:27:46 | 11/07/2019 15:27:55 | 11/07/2019 15:28:04 | 11/07/2019 15:28:13 | 11/07/2019 15:49:03 |

| | Level 6 |
|---|---|
| Amount | 1 |
| Area | 122254572 |
| RF | 122254572 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:40
User: JJY
Instrument: Semi 6

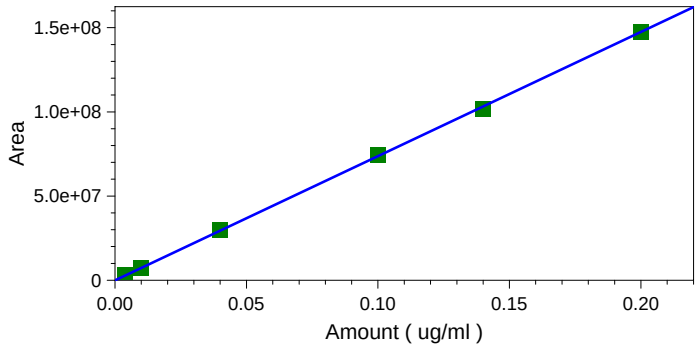
| | |
|---|---|
| Last Area Residual | -0.000950681 |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | 122254572 |
| Rep 1 User | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\009.dat |
| Rep 1 Sample ID | AH ICAL 6 PP 6081 |
| Rep 1 Calib. Time | 11/07/2019 16:01:24 |

**Calibration Report**

Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:42
User: JJY
Instrument: Semi 6

Silvex (Back Signal)
Average RF: 7.34437e+008 RF StDev: 1.59808e+007 RF %RSD: 2.17592
Scaling: None LSQ Weighting: 1/Response Force Through Zero: Off
Replicate Mode: Replace
Fit Type: Linear
y = 7.37401e+008x - 49062.1
Goodness of fit (r^2): 0.999782

Peak: Silvex -- ESTD -- Back Signal




| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---|---|---|---|---|
| Amount | 0.004 | 0.01 | 0.04 | 0.1 | 0.14 |
| Area | 2958566 | 7062247 | 29981141 | 74634740 | 101676833 |
| RF | 739641500 | 706224700 | 749528525 | 746347400 | 726263092.857143 |
| Last Area Residual | -7.86857e-005 | 0.000356256 | -0.00072437 | -0.00127973 | 0.00204812 |
| Rep StDev | | | | | |
| Rep %RSD | | | | | |
| Rep 1 Area | 2958566 | 7062247 | 29981141 | 74634740 | 101676833 |
| Rep 1 User | JJY | JJY | JJY | JJY | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\004.dat | C:\Instarch\Semi6\Data\110719hrbic\005.dat | C:\Instarch\Semi6\Data\110719hrbic\006.dat | C:\Instarch\Semi6\Data\110719hrbic\007.dat | C:\Instarch\Semi6\Data\110719hrbic\008.dat |
| Rep 1 Sample ID | AH ICAL 1 PP 6076 | AH ICAL 2 PP 6077 | AH ICAL 3 PP 6078 | AH ICAL 4 PP 6079 | AH ICAL 5 PP 6080 |
| Rep 1 Calib. Time | 11/07/2019 15:27:46 | 11/07/2019 15:27:55 | 11/07/2019 15:28:04 | 11/07/2019 15:28:13 | 11/07/2019 15:49:03 |

| | Level 6 |
|---|---|
| Amount | 0.2 |

**Calibration Report**

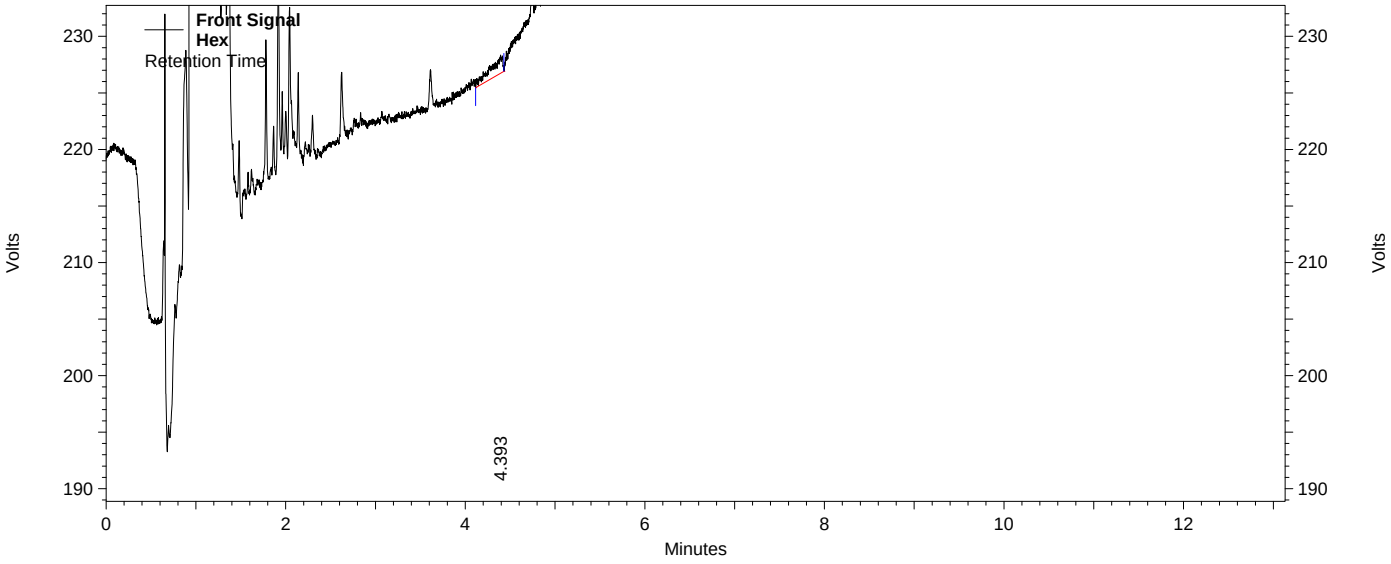
Method: C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
Print Time: 11/08/2019 10:37:42
User: JJY
Instrument: Semi 6

| | |
|---|---|
| Area | 147723710 |
| RF | 738618550 |
| Last Area | |
| Residual | -0.000396682 |
| Rep StDev | |
| Rep %RSD | |
| Rep 1 Area | 147723710 |
| Rep 1 User | JJY |
| Rep 1 Data File | C:\Instarch\Semi6\Data\110719hrbic\009.dat |
| Rep 1 Sample ID | AH ICAL 6 PP 6081 |
| Rep 1 Calib. Time | 11/07/2019 16:01:24 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\003.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** Hex
**Acquired:** 11/07/2019 14:04:47
**Printed:** 11/08/2019 10:42:24

**Data Summary: {Data Description}**



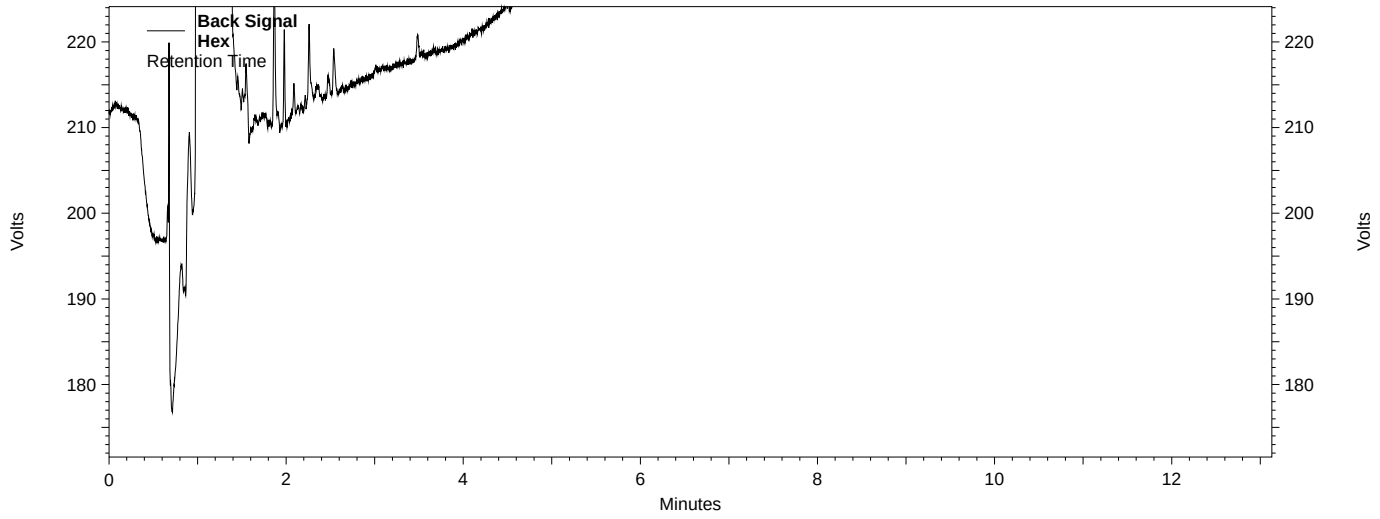

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | | | 0.0000 BDL |
| 2,4-D | | | 0.0000 BDL |
| Silvex | | | 0.0000 BDL |

# ***Pesticide Analysis Report*** *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\003.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** Hex
**Acquired:** 11/07/2019 14:04:47
**Printed:** 11/08/2019 10:42:24

**Data Summary: {Data Description}**



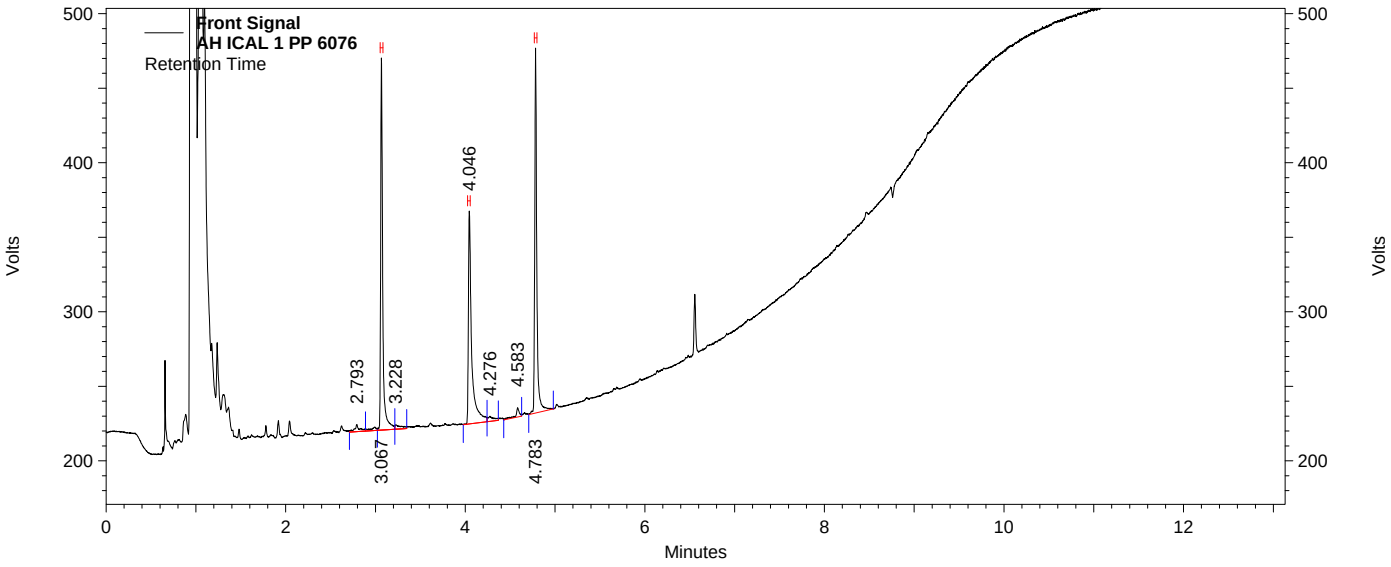

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | | | 0.0000 BDL |
| 2,4-D | | | 0.0000 BDL |
| Silvex | | | 0.0000 BDL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\004.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 1 PP 6076
**Acquired:** 11/07/2019 14:21:31
**Printed:** 11/08/2019 10:36:31

**Data Summary: {Data Description}**



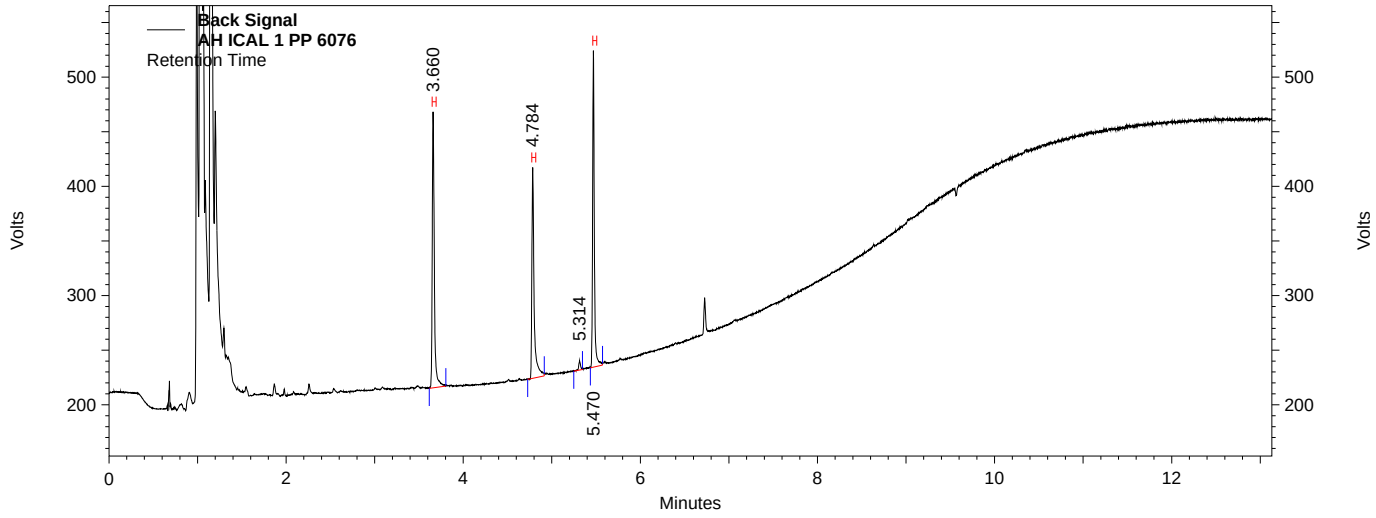

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.067 | 3000305 | 4.0000 CAL |
| 2,4-D | 4.046 | 2742862 | 0.0200 CAL |
| Silvex | 4.783 | 3024815 | 0.0040 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\004.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 1 PP 6076
**Acquired:** 11/07/2019 14:21:31
**Printed:** 11/08/2019 10:36:31

**Data Summary: {Data Description}**



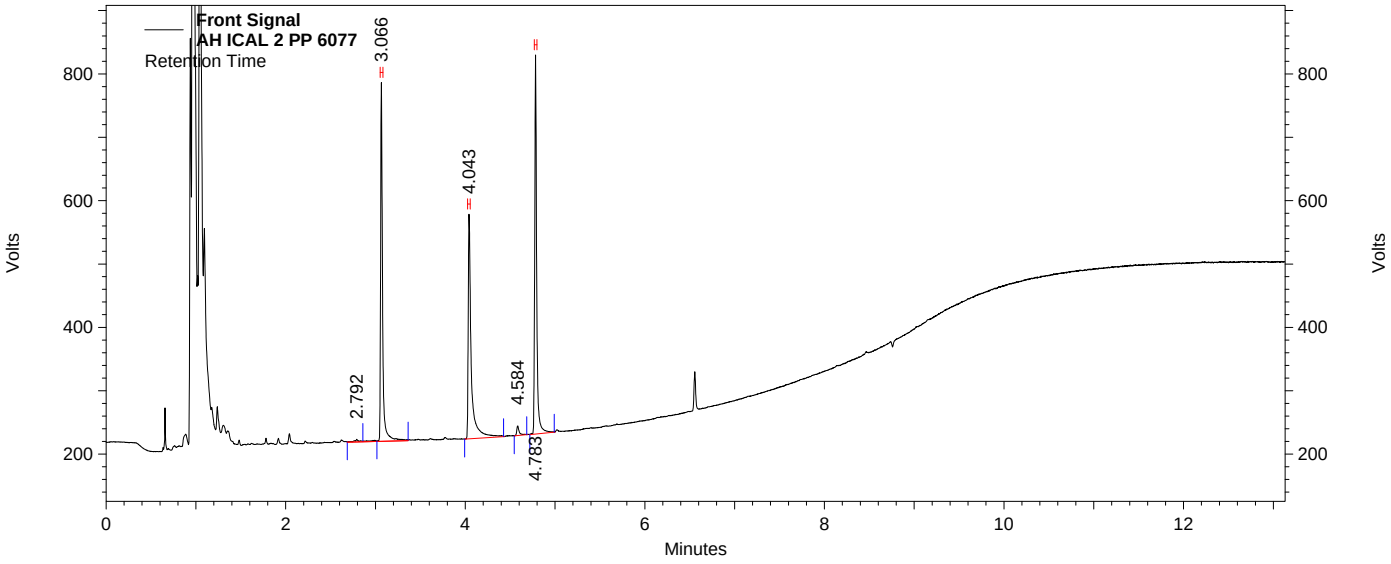

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.660 | 3139267 | 4.0000 CAL |
| 2,4-D | 4.784 | 2583883 | 0.0200 CAL |
| Silvex | 5.470 | 2958566 | 0.0040 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\005.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 2 PP 6077
**Acquired:** 11/07/2019 14:38:21
**Printed:** 11/08/2019 10:36:42

**Data Summary: {Data Description}**



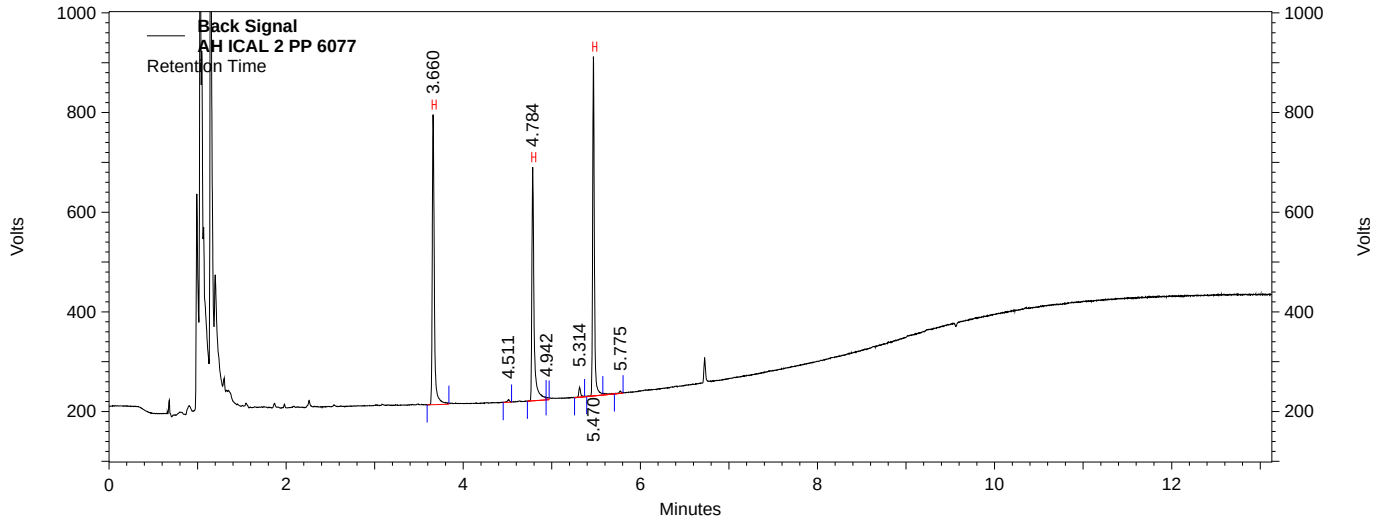

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.066 | 6637583 | 10.0000 CAL |
| 2,4-D | 4.043 | 6363417 | 0.0500 CAL |
| Silvex | 4.783 | 7085645 | 0.0100 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\005.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 2 PP 6077
**Acquired:** 11/07/2019 14:38:21
**Printed:** 11/08/2019 10:36:42

**Data Summary: {Data Description}**



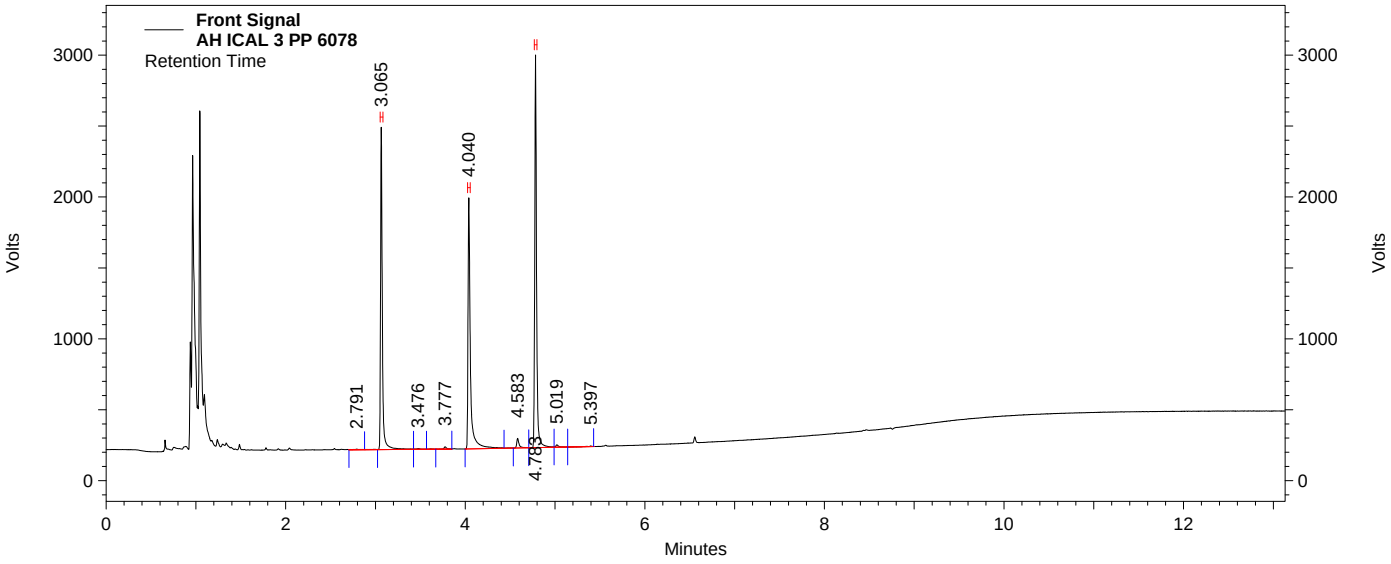

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.660 | 7134004 | 10.0000 CAL |
| 2,4-D | 4.784 | 6087928 | 0.0500 CAL |
| Silvex | 5.470 | 7062247 | 0.0100 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\006.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 3 PP 6078
**Acquired:** 11/07/2019 14:55:09
**Printed:** 11/08/2019 10:36:45

**Data Summary: {Data Description}**



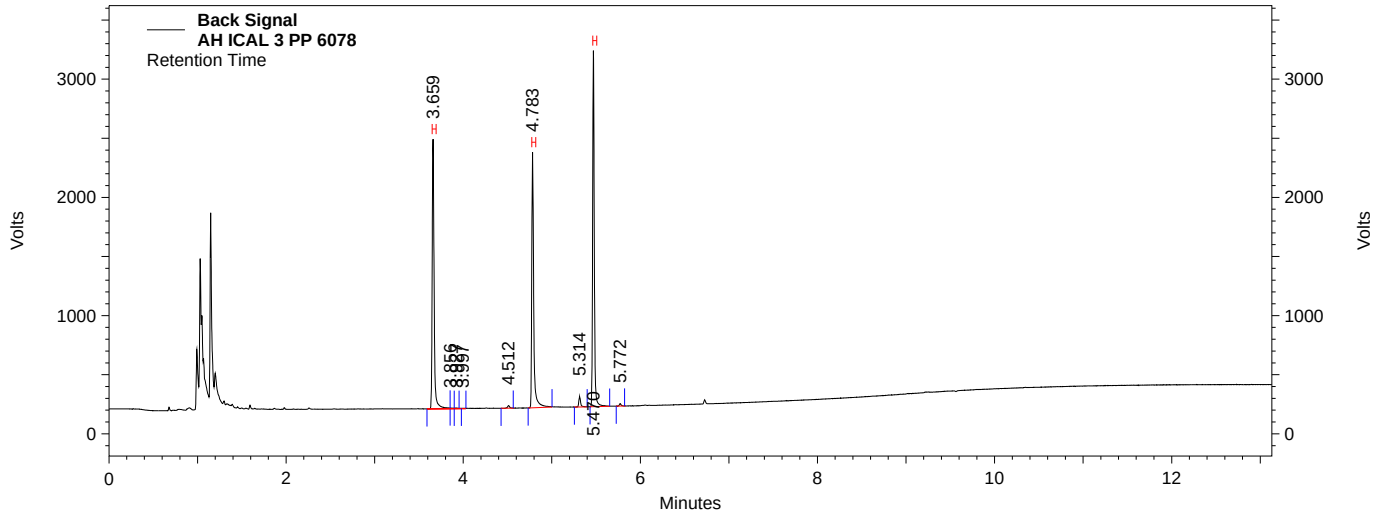

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.065 | 23961867 | 40.0000 CAL |
| 2,4-D | 4.040 | 25095933 | 0.2000 CAL |
| Silvex | 4.783 | 30448568 | 0.0400 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\006.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 3 PP 6078
**Acquired:** 11/07/2019 14:55:09
**Printed:** 11/08/2019 10:36:45

**Data Summary: {Data Description}**



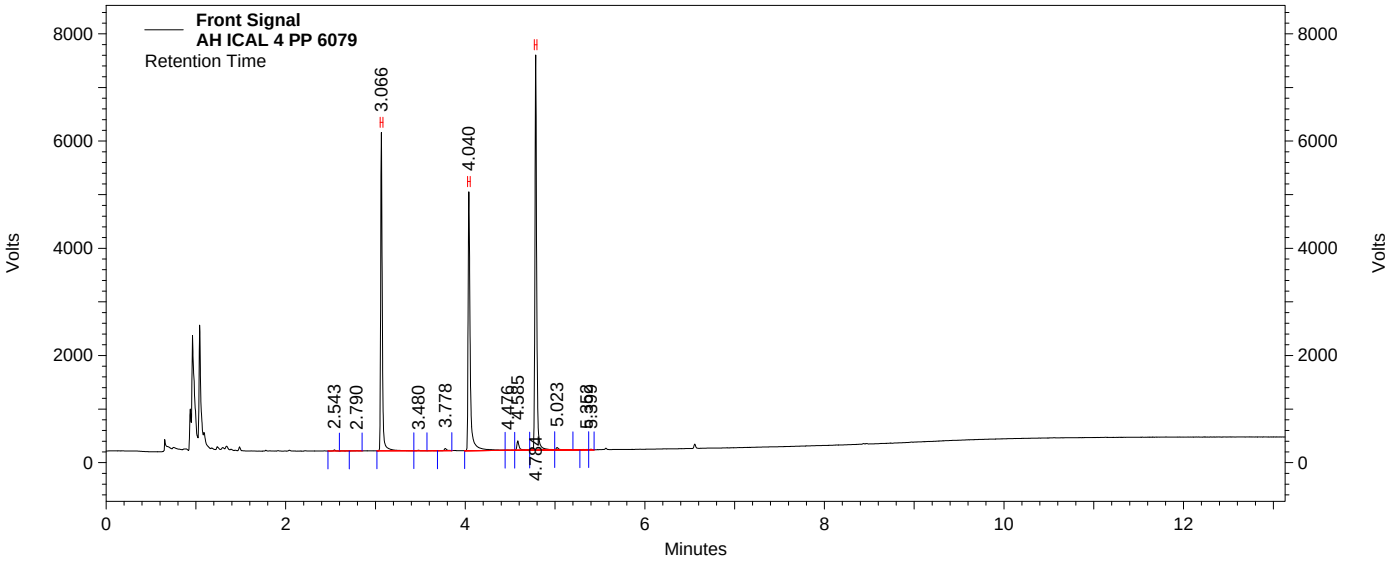

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.659 | 26296170 | 40.0000 CAL |
| 2,4-D | 4.783 | 24991313 | 0.2000 CAL |
| Silvex | 5.470 | 29981141 | 0.0400 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\007.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 4 PP 6079
**Acquired:** 11/07/2019 15:11:54
**Printed:** 11/08/2019 10:36:47

**Data Summary: {Data Description}**



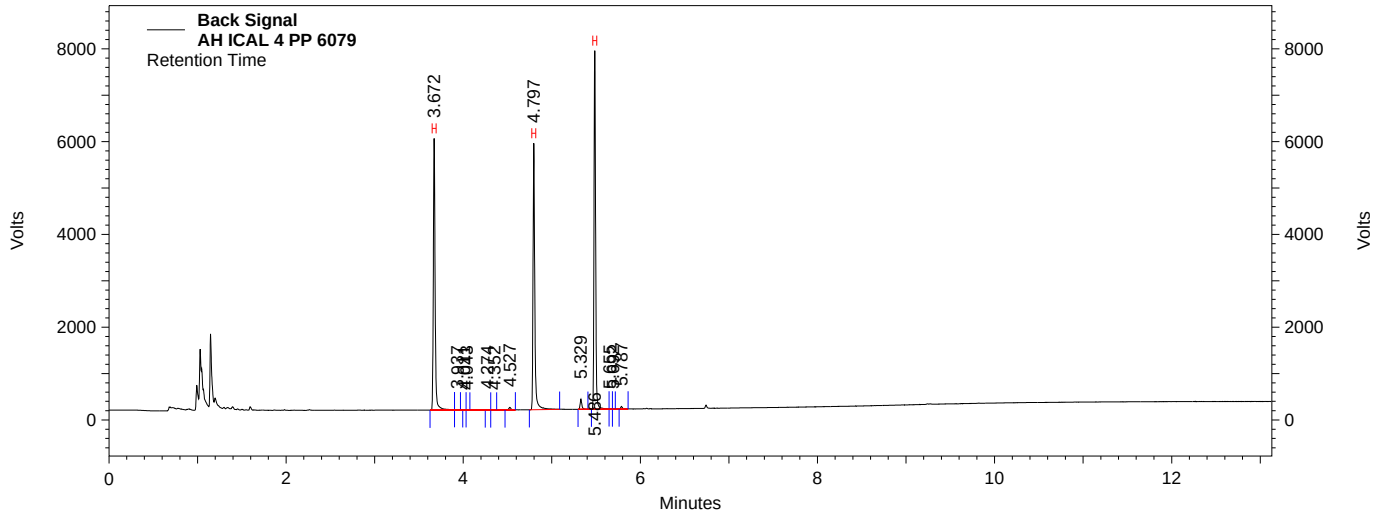

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.066 | 57844502 | 100.0000 CAL |
| 2,4-D | 4.040 | 60526470 | 0.5000 CAL |
| Silvex | 4.784 | 77730209 | 0.1000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\007.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 4 PP 6079
**Acquired:** 11/07/2019 15:11:54
**Printed:** 11/08/2019 10:36:47

**Data Summary: {Data Description}**



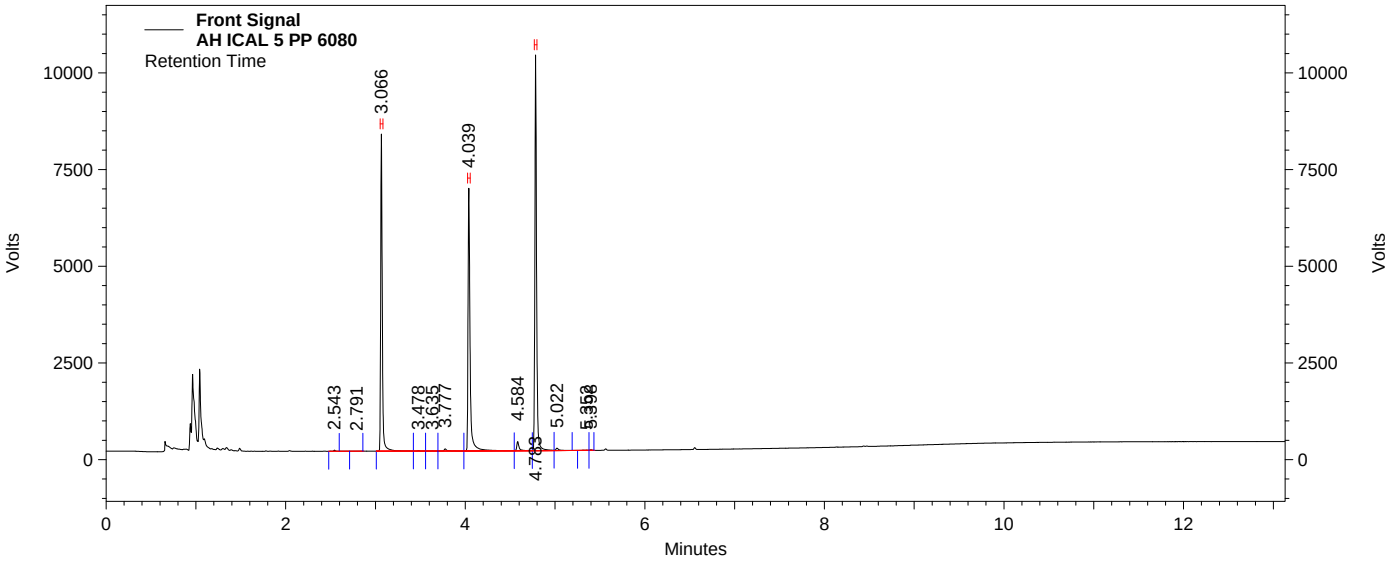

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.672 | 63219583 | 100.0000 CAL |
| 2,4-D | 4.797 | 61564747 | 0.5000 CAL |
| Silvex | 5.486 | 74634740 | 0.1000 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\008.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 5 PP 6080
**Acquired:** 11/07/2019 15:28:43
**Printed:** 11/08/2019 10:36:49

**Data Summary: {Data Description}**



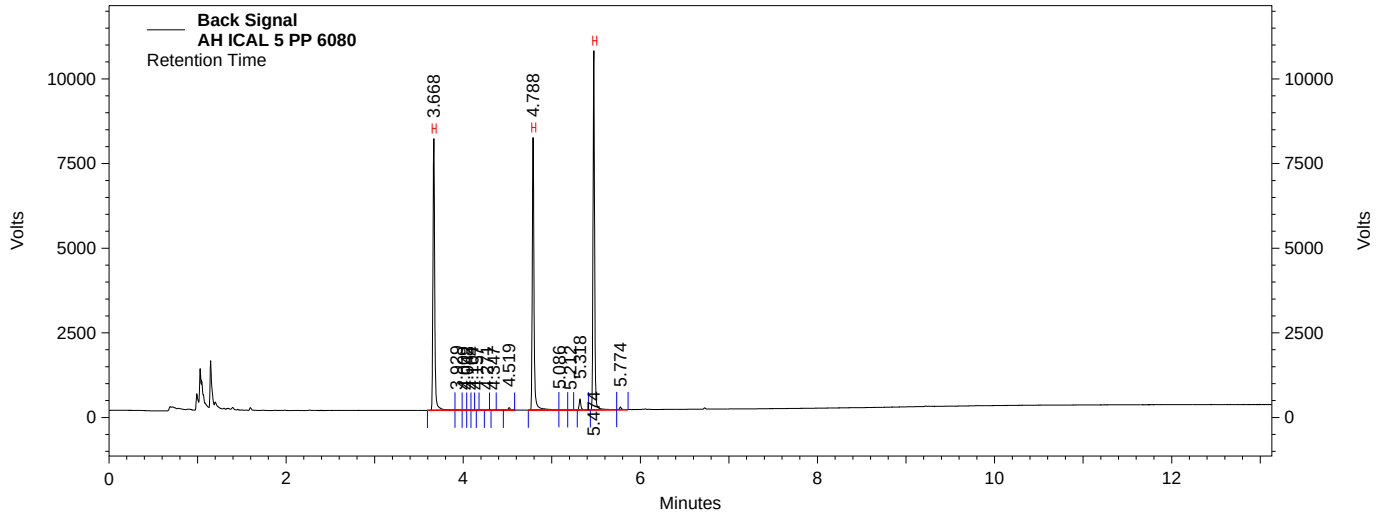

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.066 | 78488614 | 140.0000 CAL |
| 2,4-D | 4.039 | 82453473 | 0.7000 CAL |
| Silvex | 4.783 | 106014584 | 0.1400 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\008.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 5 PP 6080
**Acquired:** 11/07/2019 15:28:43
**Printed:** 11/08/2019 10:36:49

**Data Summary: {Data Description}**



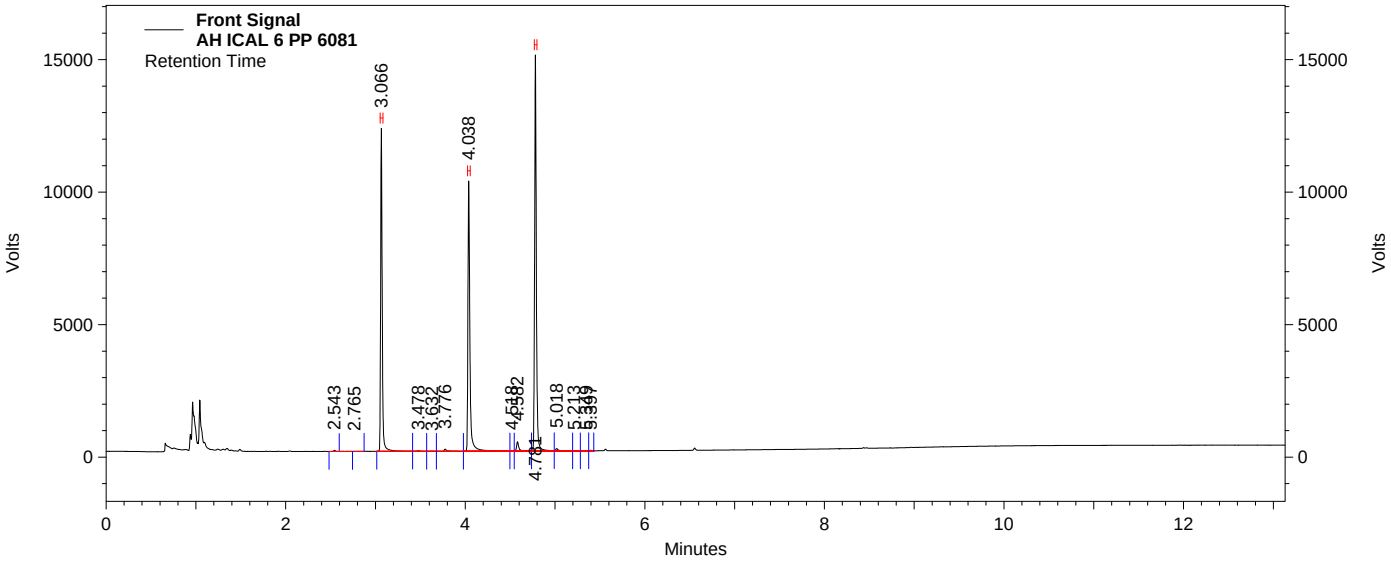

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.668 | 85741940 | 140.0000 CAL |
| 2,4-D | 4.788 | 84670418 | 0.7000 CAL |
| Silvex | 5.474 | 101676833 | 0.1400 CAL |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\009.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 6 PP 6081
**Acquired:** 11/07/2019 15:45:37
**Printed:** 11/08/2019 10:36:51

**Data Summary: {Data Description}**



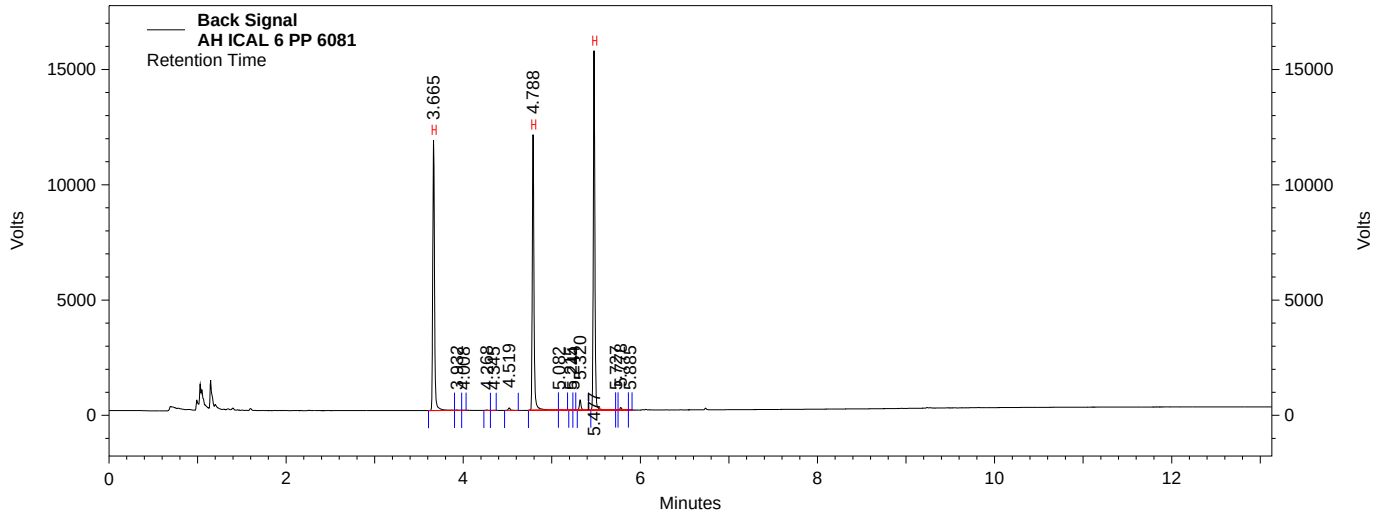

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.066 | 114868921 | 200.0000 CAL |
| 2,4-D | 4.038 | 119020111 | 1.0000 CAL |
| Silvex | 4.781 | 155422404 | 0.2000 CAL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\009.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICAL 6 PP 6081
**Acquired:** 11/07/2019 15:45:37
**Printed:** 11/08/2019 10:36:51

**Data Summary: {Data Description}**




**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.665 | 124181618 | 200.0000 CAL |
| 2,4-D | 4.788 | 122254572 | 1.0000 CAL |
| Silvex | 5.477 | 147723710 | 0.2000 CAL |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi6\Sequence\110719hrbic.seq
**User :** JJY
**Printed :** 11/08/2019 10:42:46

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi6\Data\110719hrbic\010.dat | AH ICV PP 6082 | 11/08/2019 10:42:46 |

**Front Signal**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRDCAA | 100.000 | 100.284 | 0.284 | 20.000 | Passed |
| 2,4-D | 0.500 | 0.469 | 6.291 | 20.000 | Passed |
| Silvex | 0.100 | 0.095 | 5.256 | 20.000 | Passed |

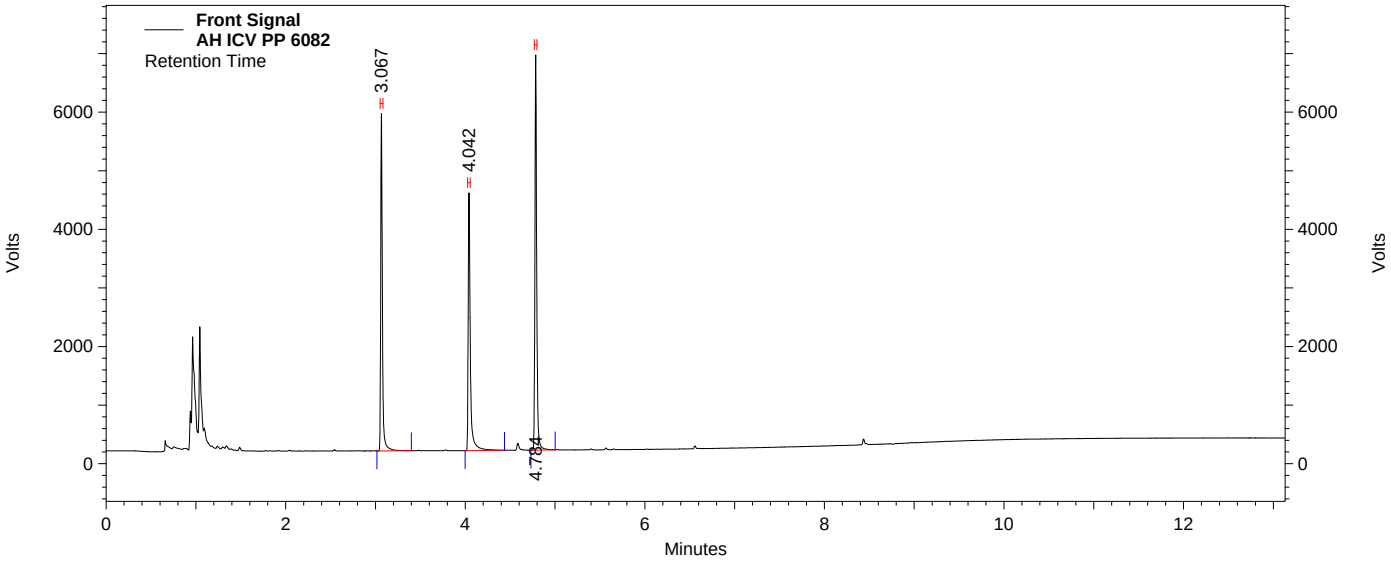
**Back Signal**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRDCAA | 100.000 | 100.791 | 0.791 | 20.000 | Passed |
| 2,4-D | 0.500 | 0.475 | 4.986 | 20.000 | Passed |
| Silvex | 0.100 | 0.096 | 3.593 | 20.000 | Passed |

# ***Pesticide Analysis Report*** *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\010.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICV PP 6082
**Acquired:** 11/07/2019 16:02:29
**Printed:** 11/08/2019 10:42:44

**Data Summary: {Data Description}**



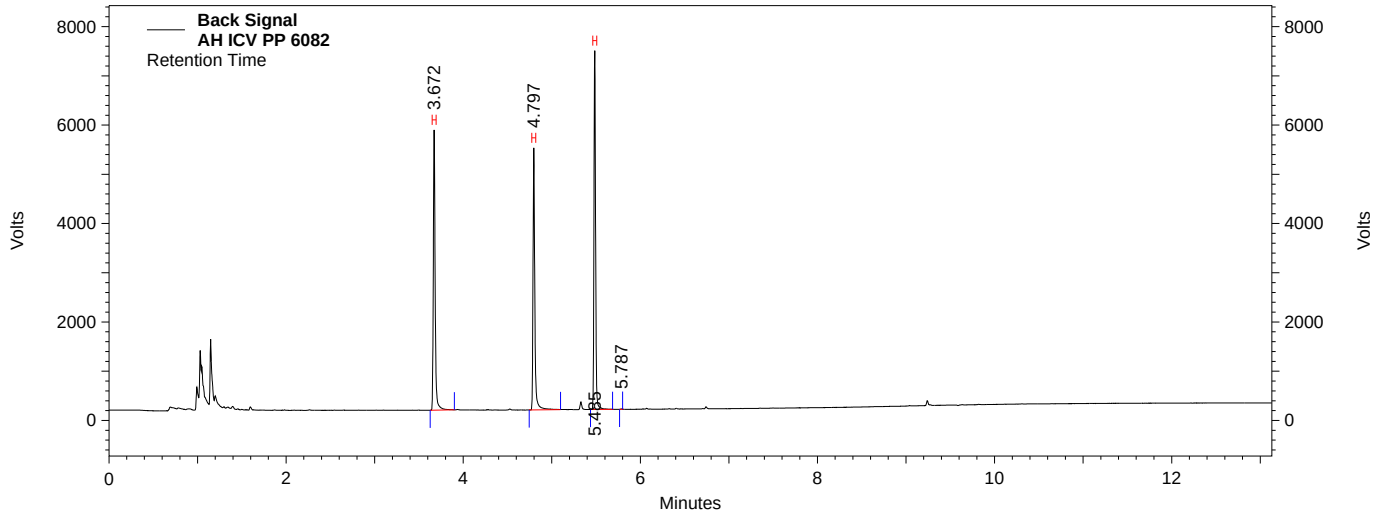

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.067 | 57622236 | 100.2843 |
| 2,4-D | 4.042 | 56116017 | 0.4685 |
| Silvex | 4.784 | 72847105 | 0.0947 |

# ***Pesticide Analysis Report*** *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\110719hrbic\010.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\110719hrbic.met
**User:** JJY
**Sample ID:** AH ICV PP 6082
**Acquired:** 11/07/2019 16:02:29
**Printed:** 11/08/2019 10:42:44

**Data Summary: {Data Description}**




**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.672 | 62994050 | 100.7905 |
| 2,4-D | 4.797 | 58090561 | 0.4751 |
| Silvex | 5.485 | 71041928 | 0.0964 |

# PESTICIDE/HERBICIDE
# CONTINUING AND ENDING STANDARDS
# DOCUMENTS

# *Pesticide Analysis Breakdown Report*

**Data File:** C:\Instarch\Semi1\data\112119pst\001.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
**User:** JJY
**Instrument:** Semi 1
**Sample ID:** EVAL PP6073
**Acquired:** 11/21/2019 17:03:23
**Printed:** 11/22/2019 10:11:39

**Channel A:** **DDT Breakdown** **1.2** **%** **Endrin Breakdown** **4.1** **%**

**Channel B:** **DDT Breakdown** **1.9** **%** **Endrin Breakdown** **5.1** **%**

Channel A

| Compound | Area | Compound | Area |
|---|---|---|---|
| 44DDT | 51133008 | ENDRIN | 53606603 |
| 44DDD | 615561 | ENDRINALDEH | 1789648 |
| 44DDE | 0 | ENDRINKETONE | 479961 |

Channel B

| Compound | Area | Compound | Area |
|---|---|---|---|
| 44DDT | 30165052 | ENDRIN | 35531488 |
| 44DDD | 492556 | ENDRINALDEH | 1407483 |
| 44DDE | 90084 | ENDRINKETONE | 503947 |

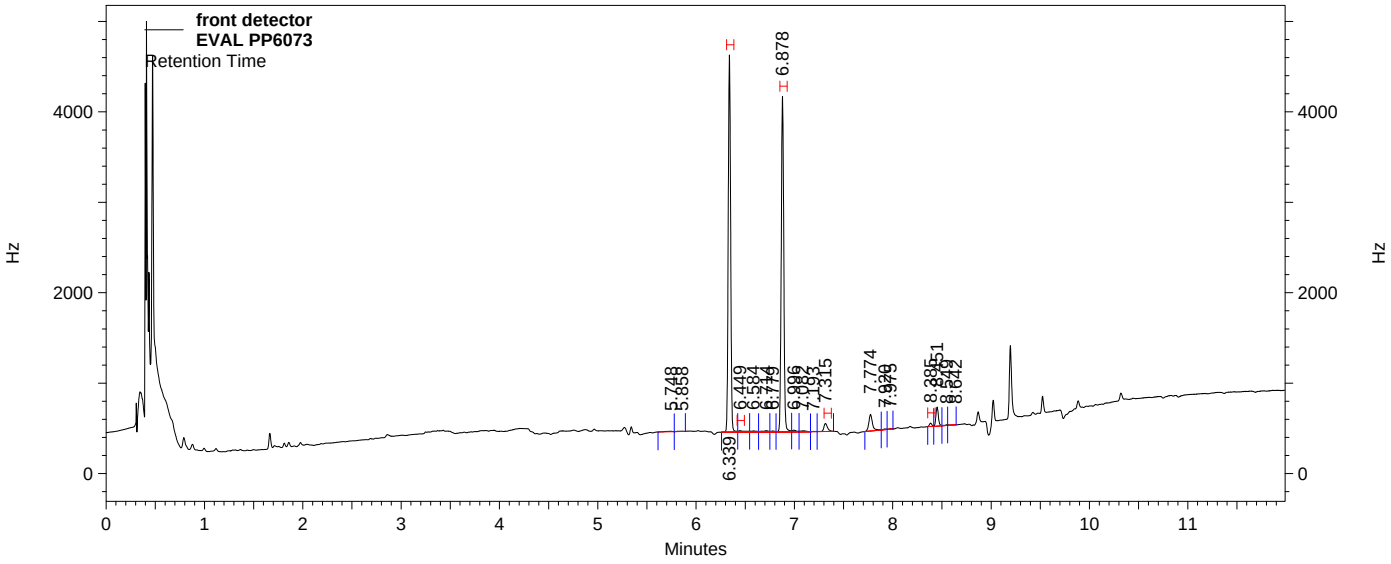
DDT Breakdown $= \frac{44DDD + 44DDE}{44DDD + 44DDE + 44DDT} \times 100\ \%$

Endrin Breakdown $= \frac{\text{Endrin aldehyde + Endrin ketone}}{\text{Endrin + Endrin aldehyde + Endrin ketone}} \times 1...\ \%$

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\001.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
**User:** JJY
**Sample ID:** EVAL PP6073
**Acquired:** 11/21/2019 17:03:23
**Printed:** 11/22/2019 10:11:40

**Data Summary: {Data Description}**



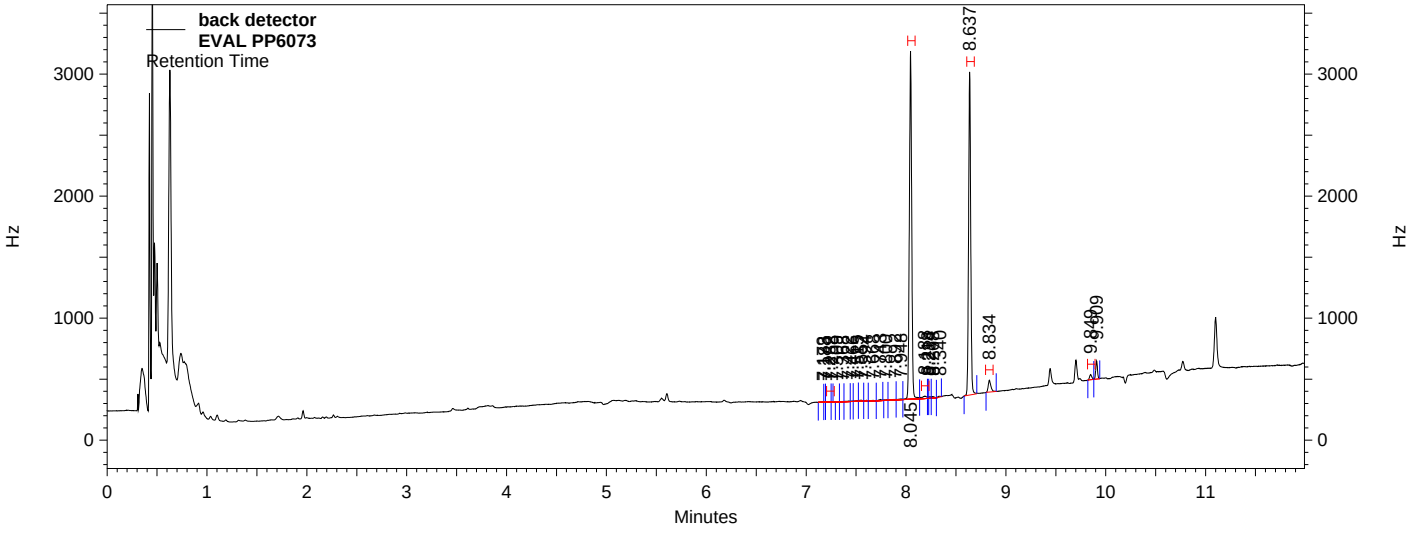

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| 44DDE | | | 0.0000 BDL |
| ENDRIN | 6.339 | 53606603 | 0.0181 |
| 44DDD | 6.449 | 615561 | 0.0005 |
| 44DDT | 6.878 | 51133008 | 0.0184 |
| ENDRINALDEH | 7.315 | 1789648 | 0.0008 |
| ENDRINKETONE | 8.385 | 479961 | 0.0004 |

# ***Pesticide Analysis Report*** *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\001.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\eval.met
**User:** JJY
**Sample ID:** EVAL PP6073
**Acquired:** 11/21/2019 17:03:23
**Printed:** 11/22/2019 10:11:40

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| 44DDE | 7.232 | 90084 | 0.0001 |
| ENDRIN | 8.045 | 35531488 | 0.0089 |
| 44DDD | 8.188 | 492556 | 0.0003 |
| 44DDT | 8.637 | 30165052 | 0.0073 |
| ENDRINALDEH | 8.834 | 1407483 | 0.0002 |
| ENDRINKETONE | 9.849 | 503947 | 0.0001 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:12:25

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\112119pst\004.dat | PEST CCV PP6040 | 11/22/2019 10:12:25 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 103.177 | 3.177 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.041 | 3.679 | 20.000 | Passed |
| LINDANE | 0.040 | 0.042 | 4.181 | 20.000 | Passed |
| BETABHC | 0.040 | 0.040 | 0.907 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.041 | 2.850 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.041 | 2.843 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.042 | 3.796 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.041 | 1.842 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.041 | 1.513 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.040 | 0.560 | 20.000 | Passed |
| 44DDE | 0.040 | 0.040 | 0.565 | 20.000 | Passed |
| ENDOI | 0.040 | 0.041 | 3.046 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.041 | 2.035 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.046 | 15.781 | 20.000 | Passed |
| 44DDD | 0.040 | 0.040 | 0.500 | 20.000 | Passed |
| ENDOII | 0.040 | 0.041 | 1.931 | 20.000 | Passed |
| 44DDT | 0.040 | 0.043 | 7.281 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.044 | 8.830 | 20.000 | Passed |
| METHOXYCL | 0.040 | 0.043 | 7.948 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.041 | 1.276 | 20.000 | Passed |
| ENDRINKETONE | 0.040 | 0.040 | 0.956 | 20.000 | Passed |
| SURRDCBPEST | 100.000 | 97.582 | 2.418 | 20.000 | Passed |

**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 99.778 | 0.222 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.040 | 1.201 | 20.000 | Passed |
| LINDANE | 0.040 | 0.039 | 1.877 | 20.000 | Passed |
| BETABHC | 0.040 | 0.038 | 4.656 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.039 | 1.678 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.039 | 3.075 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.039 | 1.743 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.039 | 2.382 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.039 | 1.988 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.039 | 1.404 | 20.000 | Passed |
| ENDOI | 0.040 | 0.039 | 2.511 | 20.000 | Passed |
| 44DDE | 0.040 | 0.040 | 1.067 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.039 | 2.779 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.044 | 11.226 | 20.000 | Passed |
| 44DDD | 0.040 | 0.038 | 5.360 | 20.000 | Passed |
| ENDOII | 0.040 | 0.038 | 3.827 | 20.000 | Passed |
| 44DDT | 0.040 | 0.041 | 2.225 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.042 | 5.999 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.039 | 3.513 | 20.000 | Passed |
| METHOXYCL | 0.040 | 0.041 | 1.373 | 20.000 | Passed |

## QC Check Standard Report



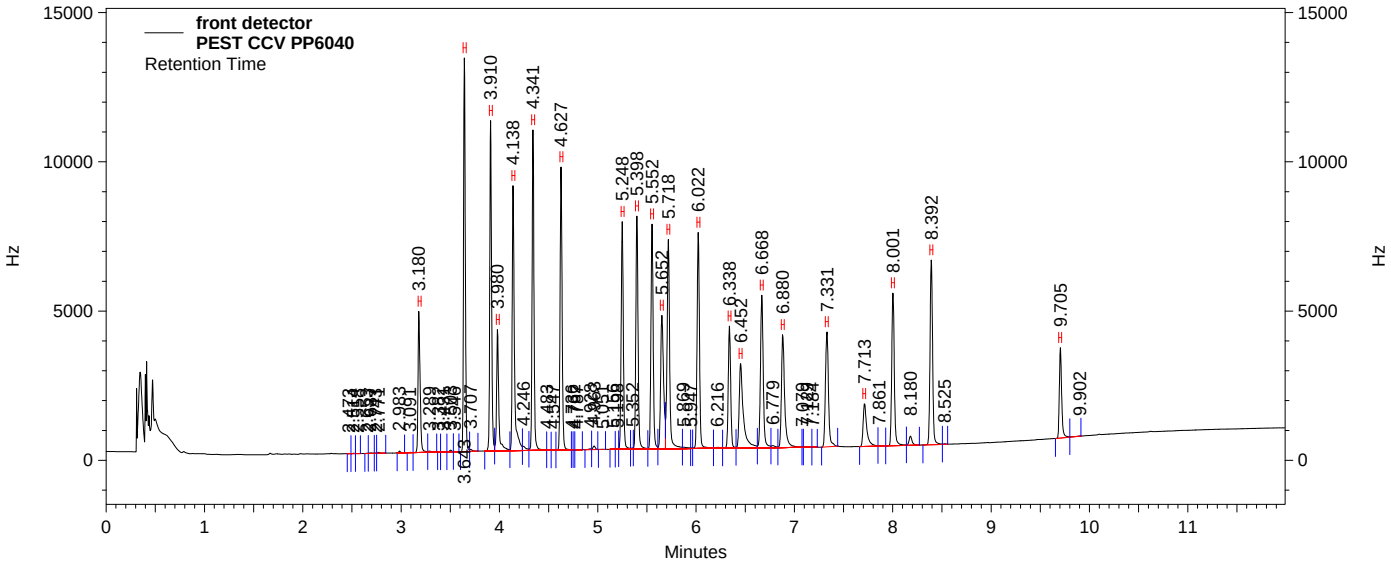
**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:12:25

| | | | | | |
|---|---|---|---|---|---|
| **ENDRINKETONE** | 0.040 | 0.037 | 6.279 | 20.000 | **Passed** |
| **SURRDCBPEST** | 100.000 | 94.764 | 5.236 | 20.000 | **Passed** |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\004.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** PEST CCV PP6040
**Acquired:** 11/21/2019 17:51:59
**Printed:** 11/22/2019 10:12:23

**Data Summary: {Data Description}**



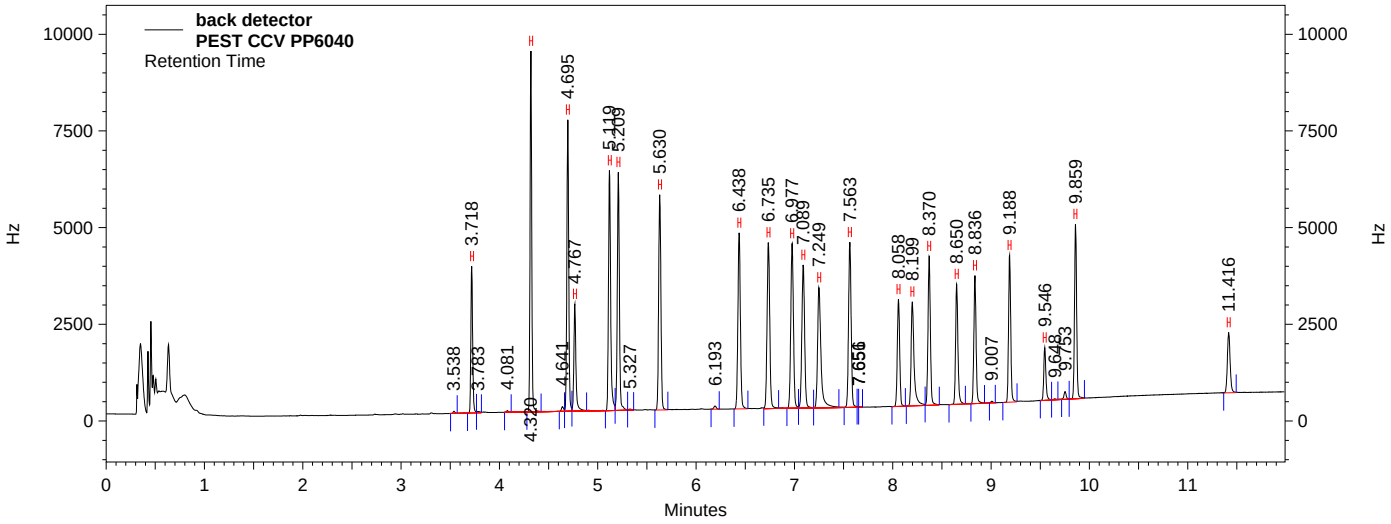

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.180 | 53909251 | 103.1774 |
| ALPHABHC | 3.643 | 125296964 | 0.0415 |
| LINDANE | 3.910 | 107999976 | 0.0417 |
| BETABHC | 3.980 | 48102025 | 0.0396 |
| DELTABHC | 4.138 | 104941559 | 0.0411 |
| HEPTACHLOR | 4.341 | 110761929 | 0.0411 |
| ALDRIN | 4.627 | 102035600 | 0.0415 |
| HEPTAEPOX | 5.248 | 89759992 | 0.0407 |
| GAMMACHLOR | 5.398 | 94149580 | 0.0406 |
| ALPHACHLOR | 5.552 | 91715431 | 0.0402 |
| 44DDE | 5.652 | 71787648 | 0.0402 |
| ENDOI | 5.718 | 98180095 | 0.0412 |
| DIELDRIN | 6.022 | 93385475 | 0.0408 |
| ENDRIN | 6.338 | 52740865 | 0.0463 |
| 44DDD | 6.452 | 63222986 | 0.0398 |
| ENDOII | 6.668 | 77457715 | 0.0408 |
| 44DDT | 6.880 | 66353647 | 0.0429 |
| ENDRINALDEH | 7.331 | 63329740 | 0.0435 |
| METHOXYCL | 7.713 | 28650570 | 0.0432 |
| ENDOSULFATE | 8.001 | 72170030 | 0.0405 |
| ENDRINKETONE | 8.392 | 85597163 | 0.0396 |
| SURRDCBPEST | 9.705 | 37858616 | 97.5824 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\004.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** PEST CCV PP6040
**Acquired:** 11/21/2019 17:51:59
**Printed:** 11/22/2019 10:12:23

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.718 | 37054016 | 99.7780 |
| ALPHABHC | 4.320 | 84873994 | 0.0395 |
| LINDANE | 4.695 | 75011134 | 0.0392 |
| BETABHC | 4.767 | 31492920 | 0.0381 |
| DELTABHC | 5.119 | 72728687 | 0.0393 |
| HEPTACHLOR | 5.209 | 70108588 | 0.0388 |
| ALDRIN | 5.630 | 67855737 | 0.0393 |
| HEPTAEPOX | 6.438 | 61437508 | 0.0390 |
| GAMMACHLOR | 6.735 | 61585986 | 0.0392 |
| ALPHACHLOR | 6.977 | 60598169 | 0.0394 |
| ENDOI | 7.089 | 56256727 | 0.0390 |
| 44DDE | 7.249 | 57636927 | 0.0396 |
| DIELDRIN | 7.563 | 59722008 | 0.0389 |
| ENDRIN | 8.058 | 35721059 | 0.0445 |
| 44DDD | 8.199 | 43069884 | 0.0379 |
| ENDOII | 8.370 | 49246544 | 0.0385 |
| 44DDT | 8.650 | 39745035 | 0.0409 |
| ENDRINALDEH | 8.836 | 40369411 | 0.0424 |
| ENDOSULFATE | 9.188 | 44615341 | 0.0386 |
| METHOXYCL | 9.546 | 15992979 | 0.0405 |
| ENDRINKETONE | 9.859 | 51667633 | 0.0375 |
| SURRDCBPEST | 11.416 | 23667091 | 94.7638 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:12:31

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\112119pst\005.dat | TC CCV PP6041 | 11/22/2019 10:12:31 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 62.210 | 3.684 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.052 | 4.811 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.052 | 3.715 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.051 | 2.298 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.050 | 0.872 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.054 | 8.446 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.050 | 0.582 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.052 | 4.859 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.052 | 3.230 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.051 | 1.833 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.052 | 4.589 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 60.002 | 0.004 | 20.000 | Passed |
| Chlordane | 0.250 | 0.259 | 3.680 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.258 | 3.019 | 20.000 | Passed |

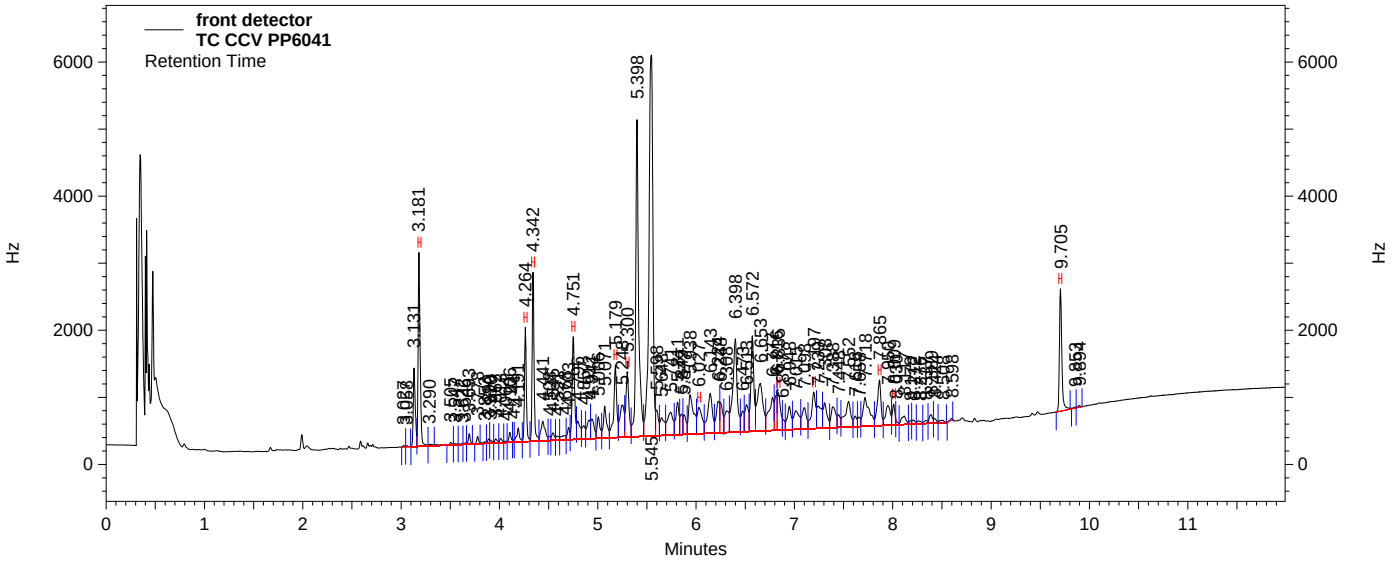
**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 60.020 | 0.033 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.051 | 1.470 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.050 | 0.429 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.049 | 2.519 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.044 | 11.331 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.050 | 0.039 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.047 | 6.789 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.047 | 5.679 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.047 | 5.408 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.046 | 8.458 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.050 | 0.304 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 58.795 | 2.008 | 20.000 | Passed |
| Chlordane | 0.250 | 0.244 | 2.570 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.237 | 5.206 | 20.000 | Passed |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\005.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** TC CCV PP6041
**Acquired:** 11/21/2019 18:08:14
**Printed:** 11/22/2019 10:12:29

**Data Summary: {Data Description}**



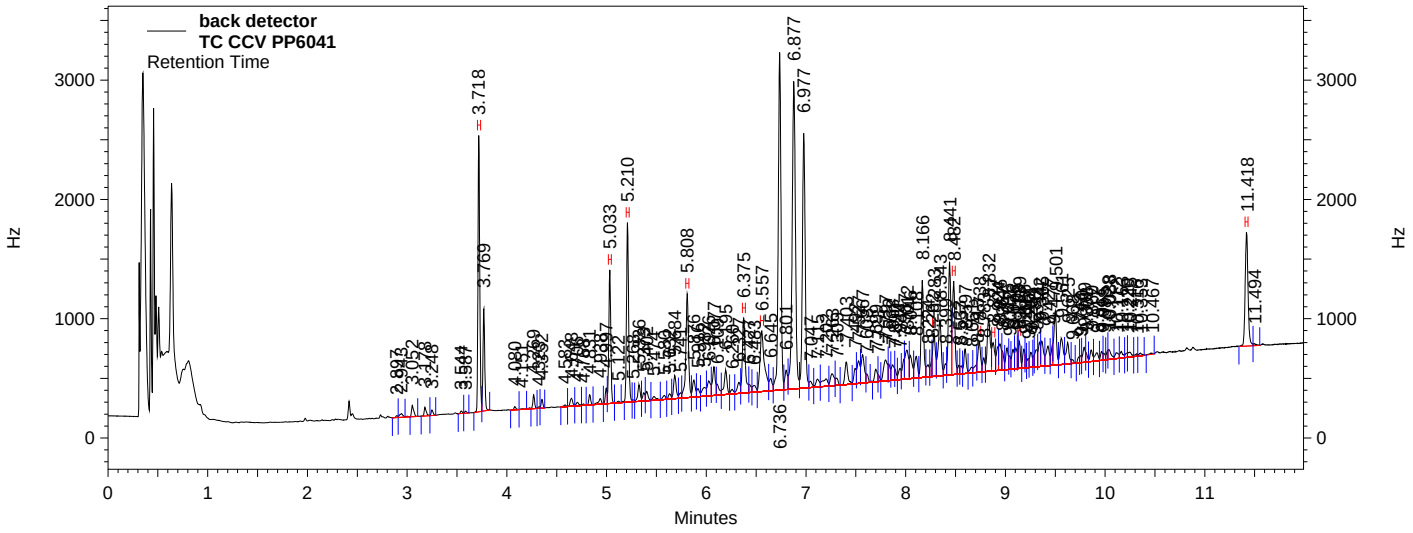

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.181 | 31983404 | 62.2103 |
| Chlordane #1 | 4.264 | 17273815 | 0.0524 |
| Chlordane #2 | 4.342 | 26419630 | 0.0519 |
| Chlordane #3 | 4.751 | 20662641 | 0.0511 |
| Chlordane #4 | 5.179 | 17343763 | 0.0496 |
| Chlordane #5 | 5.300 | 15919995 | 0.0542 |
| Toxaphene #1 | 6.027 | 10445509 | 0.0503 |
| Toxaphene #2 | 6.835 | 9847859 | 0.0524 |
| Toxaphene #3 | 7.197 | 11921695 | 0.0516 |
| Toxaphene #4 | 7.865 | 13479951 | 0.0509 |
| Toxaphene #5 | 8.009 | 4160392 | 0.0523 |
| SURRDCBPEST | 9.705 | 23554636 | 60.0024 |
| | | | |
| Chlordane | | 97619844 | 0.2592 |
| Toxaphene | | 49855406 | 0.2575 |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\005.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** TC CCV PP6041
**Acquired:** 11/21/2019 18:08:14
**Printed:** 11/22/2019 10:12:29

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.718 | 22091406 | 60.0200 |
| Chlordane #1 | 5.033 | 11857663 | 0.0507 |
| Chlordane #2 | 5.210 | 16867220 | 0.0498 |
| Chlordane #3 | 5.808 | 12751438 | 0.0487 |
| Chlordane #4 | 6.375 | 9563433 | 0.0443 |
| Chlordane #5 | 6.557 | 11938646 | 0.0500 |
| Toxaphene #1 | 8.283 | 5274094 | 0.0466 |
| Toxaphene #2 | 8.482 | 10797451 | 0.0472 |
| Toxaphene #3 | 8.738 | 3784340 | 0.0473 |
| Toxaphene #4 | 8.877 | 3631545 | 0.0458 |
| Toxaphene #5 | 9.139 | 2389830 | 0.0502 |
| SURRDCBPEST | 11.418 | 14653888 | 58.7952 |
| | | | |
| Chlordane | | 62978400 | 0.2436 |
| Toxaphene | | 25877260 | 0.2370 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:13:17

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\112119pst\019.dat | PEST CCV PP6040 | 11/22/2019 10:13:17 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 104.650 | 4.650 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.042 | 5.717 | 20.000 | Passed |
| LINDANE | 0.040 | 0.042 | 6.157 | 20.000 | Passed |
| BETABHC | 0.040 | 0.041 | 2.404 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.042 | 5.522 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.043 | 6.366 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.042 | 6.221 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.042 | 5.280 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.042 | 5.266 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.042 | 4.700 | 20.000 | Passed |
| 44DDE | 0.040 | 0.040 | 0.831 | 20.000 | Passed |
| ENDOI | 0.040 | 0.045 | 11.425 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.043 | 6.831 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.042 | 4.673 | 20.000 | Passed |
| 44DDD | 0.040 | 0.041 | 2.147 | 20.000 | Passed |
| ENDOII | 0.040 | 0.043 | 7.320 | 20.000 | Passed |
| 44DDT | 0.040 | 0.045 | 12.118 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.047 | 18.294 | 20.000 | Passed |
| METHOXYCL | 0.040 | 0.043 | 6.694 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.042 | 6.055 | 20.000 | Passed |
| ENDRINKETONE | 0.040 | 0.043 | 7.488 | 20.000 | Passed |
| SURRDCBPEST | 100.000 | 106.806 | 6.806 | 20.000 | Passed |

**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 102.049 | 2.049 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.041 | 2.812 | 20.000 | Passed |
| LINDANE | 0.040 | 0.041 | 2.805 | 20.000 | Passed |
| BETABHC | 0.040 | 0.041 | 1.280 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.041 | 3.015 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.041 | 2.075 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.041 | 2.600 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.041 | 2.686 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.041 | 3.424 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.041 | 3.610 | 20.000 | Passed |
| ENDOI | 0.040 | 0.041 | 3.038 | 20.000 | Passed |
| 44DDE | 0.040 | 0.041 | 3.420 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.041 | 2.736 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.041 | 1.579 | 20.000 | Passed |
| 44DDD | 0.040 | 0.040 | 0.051 | 20.000 | Passed |
| ENDOII | 0.040 | 0.041 | 3.179 | 20.000 | Passed |
| 44DDT | 0.040 | 0.043 | 8.296 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.048 | 18.820 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.041 | 2.872 | 20.000 | Passed |
| METHOXYCL | 0.040 | 0.041 | 1.969 | 20.000 | Passed |

## QC Check Standard Report



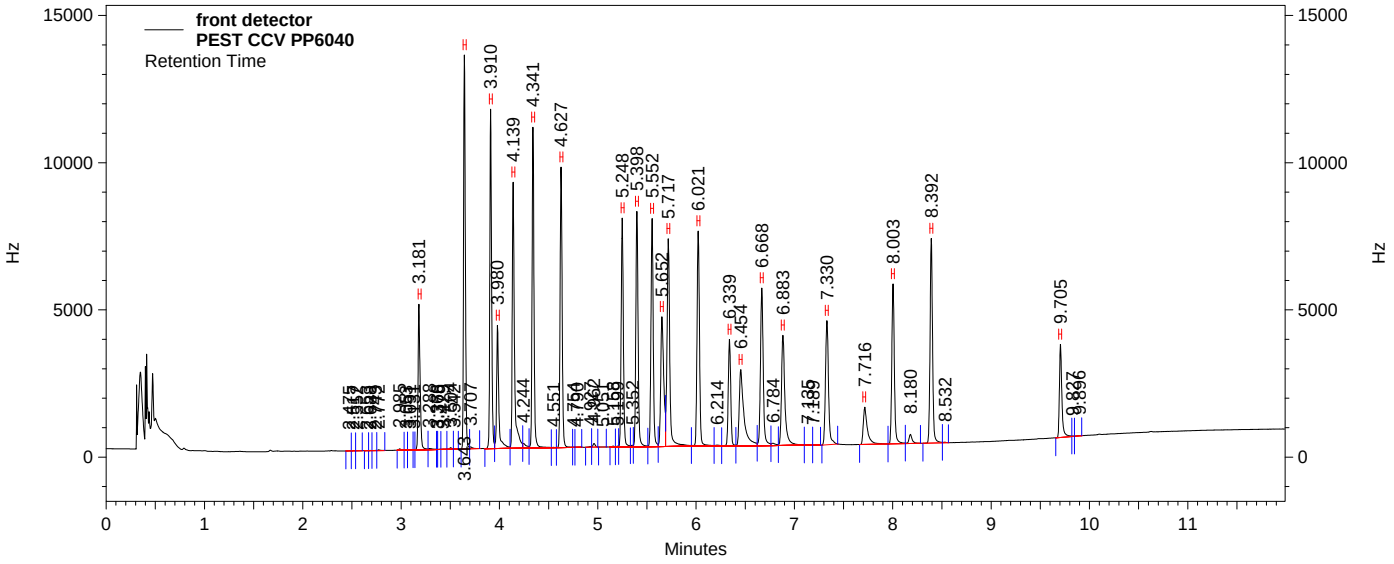
**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:13:17

| | | | | | |
|---|---|---|---|---|---|
| **ENDRINKETONE** | 0.040 | 0.042 | 4.543 | 20.000 | **Passed** |
| **SURRDCBPEST** | 100.000 | 104.216 | 4.216 | 20.000 | **Passed** |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\019.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** PEST CCV PP6040
**Acquired:** 11/21/2019 21:56:32
**Printed:** 11/22/2019 10:13:15

**Data Summary: {Data Description}**



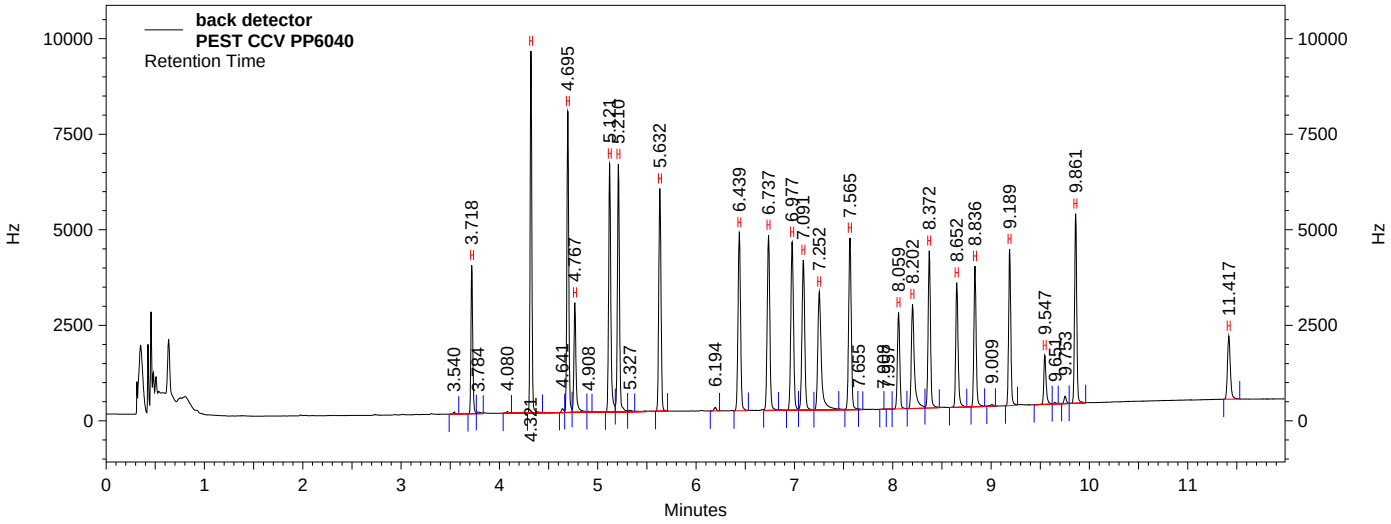

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.181 | 54689333 | 104.6499 |
| ALPHABHC | 3.643 | 127887682 | 0.0423 |
| LINDANE | 3.910 | 110144565 | 0.0425 |
| BETABHC | 3.980 | 49669949 | 0.0410 |
| DELTABHC | 4.139 | 107854040 | 0.0422 |
| HEPTACHLOR | 4.341 | 114518279 | 0.0425 |
| ALDRIN | 4.627 | 104487167 | 0.0425 |
| HEPTAEPOX | 5.248 | 92779061 | 0.0421 |
| GAMMACHLOR | 5.398 | 97683432 | 0.0421 |
| ALPHACHLOR | 5.552 | 95525595 | 0.0419 |
| 44DDE | 5.652 | 72002188 | 0.0403 |
| ENDOI | 5.717 | 105798544 | 0.0446 |
| DIELDRIN | 6.021 | 97867267 | 0.0427 |
| ENDRIN | 6.339 | 47293431 | 0.0419 |
| 44DDD | 6.454 | 65043082 | 0.0409 |
| ENDOII | 6.668 | 81591930 | 0.0429 |
| 44DDT | 6.883 | 69808069 | 0.0448 |
| ENDRINALDEH | 7.330 | 69090275 | 0.0473 |
| METHOXYCL | 7.716 | 28277094 | 0.0427 |
| ENDOSULFATE | 8.003 | 75630474 | 0.0424 |
| ENDRINKETONE | 8.392 | 92949645 | 0.0430 |
| SURRDCBPEST | 9.705 | 41392015 | 106.8064 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\019.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** PEST CCV PP6040
**Acquired:** 11/21/2019 21:56:32
**Printed:** 11/22/2019 10:13:15

**Data Summary:** {Data Description}




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.718 | 37883842 | 102.0488 |
| ALPHABHC | 4.321 | 88361524 | 0.0411 |
| LINDANE | 4.695 | 78608223 | 0.0411 |
| BETABHC | 4.767 | 33387122 | 0.0405 |
| DELTABHC | 5.121 | 76300660 | 0.0412 |
| HEPTACHLOR | 5.210 | 73725778 | 0.0408 |
| ALDRIN | 5.632 | 70814199 | 0.0410 |
| HEPTAEPOX | 6.439 | 64529838 | 0.0411 |
| GAMMACHLOR | 6.737 | 64991758 | 0.0414 |
| ALPHACHLOR | 6.977 | 63665570 | 0.0414 |
| ENDOI | 7.091 | 59399268 | 0.0412 |
| 44DDE | 7.252 | 60300885 | 0.0414 |
| DIELDRIN | 7.565 | 63105348 | 0.0411 |
| ENDRIN | 8.059 | 32537906 | 0.0406 |
| 44DDD | 8.202 | 45567688 | 0.0400 |
| ENDOII | 8.372 | 52785223 | 0.0413 |
| 44DDT | 8.652 | 42312227 | 0.0433 |
| ENDRINALDEH | 8.836 | 45335755 | 0.0475 |
| ENDOSULFATE | 9.189 | 47566439 | 0.0411 |
| METHOXYCL | 9.547 | 16096386 | 0.0408 |
| ENDRINKETONE | 9.861 | 57618349 | 0.0418 |
| SURRDCBPEST | 11.417 | 26010516 | 104.2157 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:13:23

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\112119pst\020.dat | TC CCV PP6041 | 11/22/2019 10:13:23 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 62.564 | 4.273 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.053 | 5.489 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.053 | 5.028 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.052 | 4.081 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.051 | 2.832 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.056 | 11.827 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.056 | 12.306 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.056 | 11.930 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.056 | 11.804 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.056 | 11.041 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.059 | 17.934 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 65.653 | 9.422 | 20.000 | Passed |
| Chlordane | 0.250 | 0.265 | 5.851 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.283 | 13.003 | 20.000 | Passed |

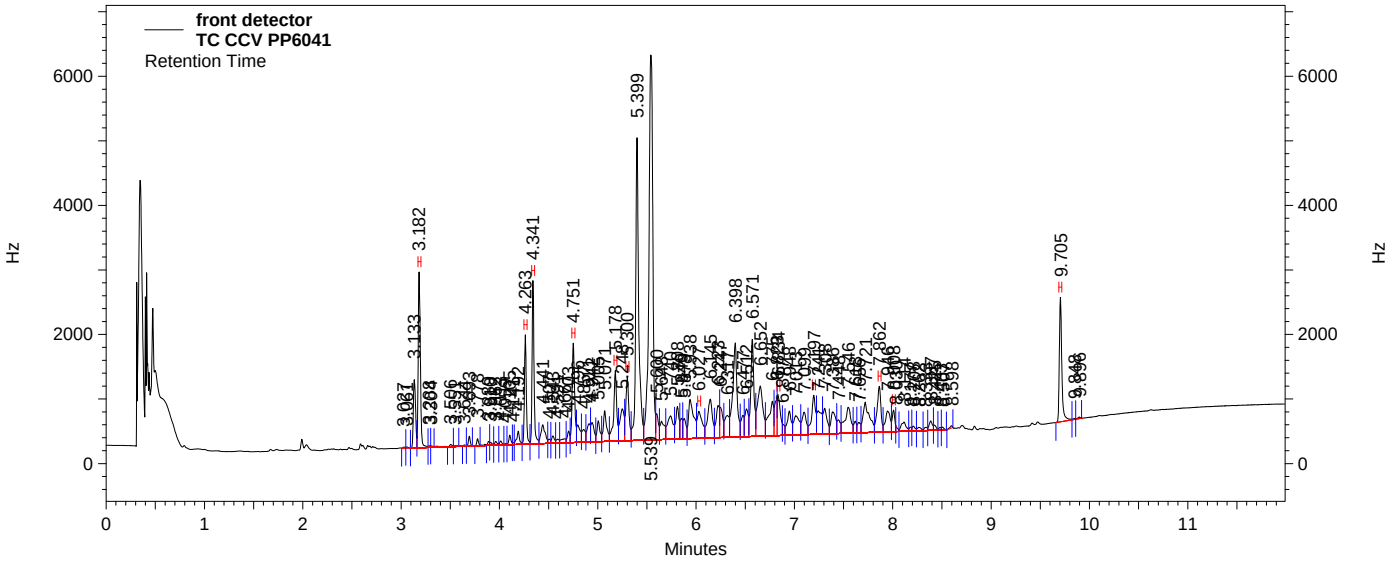
**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 61.248 | 2.081 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.052 | 3.600 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.051 | 2.534 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.051 | 2.406 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.047 | 6.502 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.053 | 6.880 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.052 | 4.791 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.055 | 9.285 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.056 | 12.085 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.057 | 14.057 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.058 | 15.375 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 63.979 | 6.631 | 20.000 | Passed |
| Chlordane | 0.250 | 0.254 | 1.784 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.278 | 11.119 | 20.000 | Passed |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\020.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** TC CCV PP6041
**Acquired:** 11/21/2019 22:12:45
**Printed:** 11/22/2019 10:13:21

**Data Summary: {Data Description}**



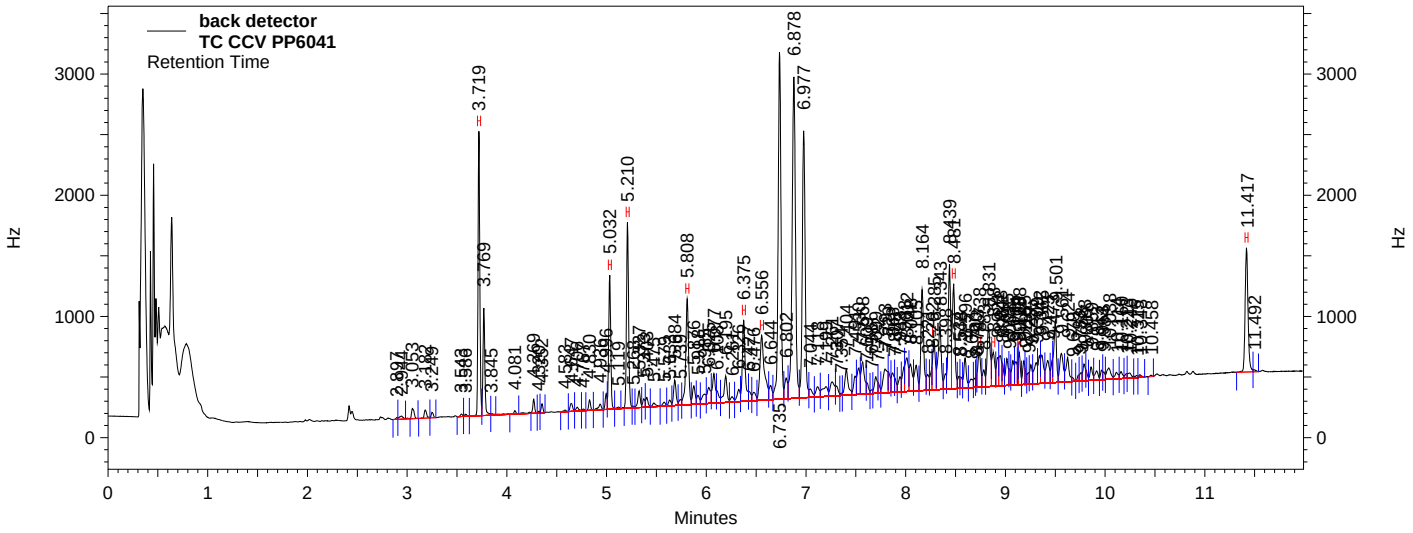

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.182 | 32166352 | 62.5639 |
| Chlordane #1 | 4.263 | 17385249 | 0.0527 |
| Chlordane #2 | 4.341 | 26756067 | 0.0525 |
| Chlordane #3 | 4.751 | 21018212 | 0.0520 |
| Chlordane #4 | 5.178 | 17990766 | 0.0514 |
| Chlordane #5 | 5.300 | 16426821 | 0.0559 |
| Toxaphene #1 | 6.027 | 11680397 | 0.0562 |
| Toxaphene #2 | 6.834 | 10531276 | 0.0560 |
| Toxaphene #3 | 7.197 | 12958225 | 0.0559 |
| Toxaphene #4 | 7.862 | 14742154 | 0.0555 |
| Toxaphene #5 | 8.008 | 4713311 | 0.0590 |
| SURRDCBPEST | 9.705 | 25735593 | 65.6534 |
| | | | |
| Chlordane | | 99577115 | 0.2646 |
| Toxaphene | | 54625363 | 0.2825 |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\020.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** TC CCV PP6041
**Acquired:** 11/21/2019 22:12:45
**Printed:** 11/22/2019 10:13:21

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.719 | 22538865 | 61.2484 |
| Chlordane #1 | 5.032 | 12104534 | 0.0518 |
| Chlordane #2 | 5.210 | 17363864 | 0.0513 |
| Chlordane #3 | 5.808 | 13379338 | 0.0512 |
| Chlordane #4 | 6.375 | 10080919 | 0.0467 |
| Chlordane #5 | 6.556 | 12769399 | 0.0534 |
| Toxaphene #1 | 8.285 | 5950450 | 0.0524 |
| Toxaphene #2 | 8.481 | 12509792 | 0.0546 |
| Toxaphene #3 | 8.738 | 4511837 | 0.0560 |
| Toxaphene #4 | 8.878 | 4557784 | 0.0570 |
| Toxaphene #5 | 9.138 | 2763995 | 0.0577 |
| SURRDCBPEST | 11.417 | 15918223 | 63.9787 |
| | | | |
| Chlordane | | 65698054 | 0.2545 |
| Toxaphene | | 30293858 | 0.2778 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:13:37

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\112119pst\024.dat | PEST CCV PP6040 | 11/22/2019 10:13:37 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 103.089 | 3.089 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.042 | 4.155 | 20.000 | Passed |
| LINDANE | 0.040 | 0.041 | 2.694 | 20.000 | Passed |
| BETABHC | 0.040 | 0.040 | 0.192 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.041 | 3.453 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.042 | 3.858 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.042 | 4.029 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.041 | 2.804 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.042 | 3.831 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.041 | 2.572 | 20.000 | Passed |
| 44DDE | 0.040 | 0.040 | 1.163 | 20.000 | Passed |
| ENDOI | 0.040 | 0.043 | 7.148 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.042 | 4.458 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.040 | 0.205 | 20.000 | Passed |
| 44DDD | 0.040 | 0.040 | 0.162 | 20.000 | Passed |
| ENDOII | 0.040 | 0.042 | 4.917 | 20.000 | Passed |
| 44DDT | 0.040 | 0.044 | 9.687 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.047 | 16.809 | 20.000 | Passed |
| METHOXYCL | 0.040 | 0.042 | 5.001 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.042 | 4.529 | 20.000 | Passed |
| ENDRINKETONE | 0.040 | 0.042 | 6.032 | 20.000 | Passed |
| SURRDCBPEST | 100.000 | 105.739 | 5.739 | 20.000 | Passed |

**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 100.000 | 100.645 | 0.645 | 20.000 | Passed |
| ALPHABHC | 0.040 | 0.040 | 0.958 | 20.000 | Passed |
| LINDANE | 0.040 | 0.040 | 1.041 | 20.000 | Passed |
| BETABHC | 0.040 | 0.040 | 0.717 | 20.000 | Passed |
| DELTABHC | 0.040 | 0.040 | 0.947 | 20.000 | Passed |
| HEPTACHLOR | 0.040 | 0.040 | 0.076 | 20.000 | Passed |
| ALDRIN | 0.040 | 0.040 | 0.821 | 20.000 | Passed |
| HEPTAEPOX | 0.040 | 0.040 | 0.556 | 20.000 | Passed |
| GAMMACHLOR | 0.040 | 0.040 | 1.159 | 20.000 | Passed |
| ALPHACHLOR | 0.040 | 0.041 | 1.346 | 20.000 | Passed |
| ENDOI | 0.040 | 0.040 | 0.820 | 20.000 | Passed |
| 44DDE | 0.040 | 0.041 | 1.364 | 20.000 | Passed |
| DIELDRIN | 0.040 | 0.040 | 0.722 | 20.000 | Passed |
| ENDRIN | 0.040 | 0.039 | 2.333 | 20.000 | Passed |
| 44DDD | 0.040 | 0.039 | 1.597 | 20.000 | Passed |
| ENDOII | 0.040 | 0.040 | 1.215 | 20.000 | Passed |
| 44DDT | 0.040 | 0.043 | 6.530 | 20.000 | Passed |
| ENDRINALDEH | 0.040 | 0.047 | 17.510 | 20.000 | Passed |
| ENDOSULFATE | 0.040 | 0.041 | 1.700 | 20.000 | Passed |
| METHOXYCL | 0.040 | 0.041 | 2.556 | 20.000 | Passed |

## QC Check Standard Report



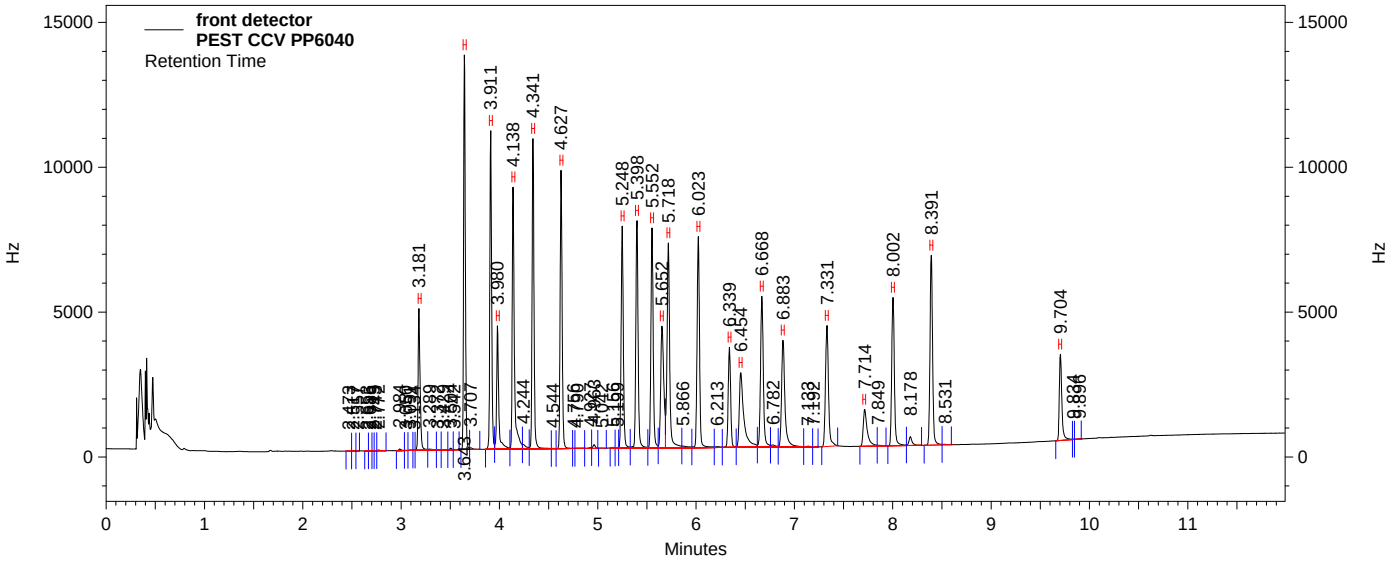
**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:13:37

| | | | | | |
|---|---|---|---|---|---|
| **ENDRINKETONE** | 0.040 | 0.041 | 3.295 | 20.000 | **Passed** |
| **SURRDCBPEST** | 100.000 | 103.274 | 3.274 | 20.000 | **Passed** |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\024.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** PEST CCV PP6040
**Acquired:** 11/21/2019 23:18:02
**Printed:** 11/22/2019 10:13:35

**Data Summary: {Data Description}**



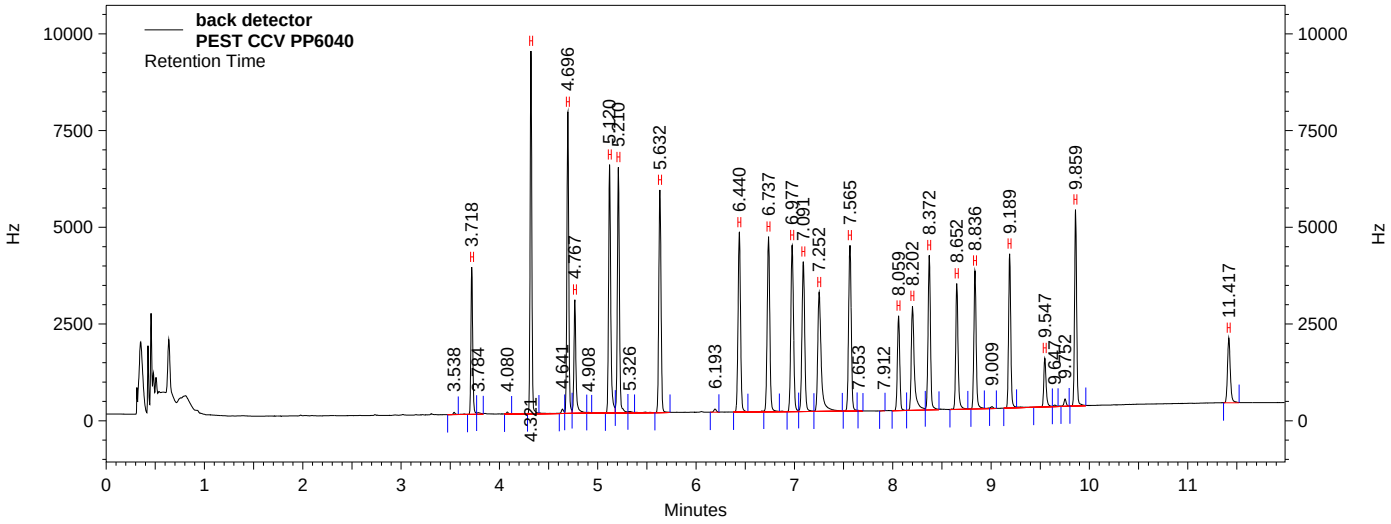

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.181 | 53862223 | 103.0886 |
| ALPHABHC | 3.643 | 125900734 | 0.0417 |
| LINDANE | 3.911 | 106388979 | 0.0411 |
| BETABHC | 3.980 | 48622744 | 0.0401 |
| DELTABHC | 4.138 | 105597790 | 0.0414 |
| HEPTACHLOR | 4.341 | 111844471 | 0.0415 |
| ALDRIN | 4.627 | 102271667 | 0.0416 |
| HEPTAEPOX | 5.248 | 90604777 | 0.0411 |
| GAMMACHLOR | 5.398 | 96332157 | 0.0415 |
| ALPHACHLOR | 5.552 | 93566972 | 0.0410 |
| 44DDE | 5.652 | 70396990 | 0.0395 |
| ENDOI | 5.718 | 101916170 | 0.0429 |
| DIELDRIN | 6.023 | 95648798 | 0.0418 |
| ENDRIN | 6.339 | 45128420 | 0.0401 |
| 44DDD | 6.454 | 63677512 | 0.0401 |
| ENDOII | 6.668 | 79747958 | 0.0420 |
| 44DDT | 6.883 | 68066886 | 0.0439 |
| ENDRINALDEH | 7.331 | 68183124 | 0.0467 |
| METHOXYCL | 7.714 | 27774078 | 0.0420 |
| ENDOSULFATE | 8.002 | 74524504 | 0.0418 |
| ENDRINKETONE | 8.391 | 91680533 | 0.0424 |
| SURRDCBPEST | 9.704 | 40983401 | 105.7392 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\024.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** PEST CCV PP6040
**Acquired:** 11/21/2019 23:18:02
**Printed:** 11/22/2019 10:13:35

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.718 | 37370898 | 100.6451 |
| ALPHABHC | 4.321 | 86749853 | 0.0404 |
| LINDANE | 4.696 | 77252412 | 0.0404 |
| BETABHC | 4.767 | 32750429 | 0.0397 |
| DELTABHC | 5.120 | 74725345 | 0.0404 |
| HEPTACHLOR | 5.210 | 72216092 | 0.0400 |
| ALDRIN | 5.632 | 69602062 | 0.0403 |
| HEPTAEPOX | 6.440 | 63231516 | 0.0402 |
| GAMMACHLOR | 6.737 | 63566233 | 0.0405 |
| ALPHACHLOR | 6.977 | 62280449 | 0.0405 |
| ENDOI | 7.091 | 58144022 | 0.0403 |
| 44DDE | 7.252 | 59079666 | 0.0405 |
| DIELDRIN | 7.565 | 61869567 | 0.0403 |
| ENDRIN | 8.059 | 31252645 | 0.0391 |
| 44DDD | 8.202 | 44806222 | 0.0394 |
| ENDOII | 8.372 | 51793774 | 0.0405 |
| 44DDT | 8.652 | 41562991 | 0.0426 |
| ENDRINALDEH | 8.836 | 44826925 | 0.0470 |
| ENDOSULFATE | 9.189 | 47024259 | 0.0407 |
| METHOXYCL | 9.547 | 16198266 | 0.0410 |
| ENDRINKETONE | 9.859 | 56931771 | 0.0413 |
| SURRDCBPEST | 11.417 | 25776870 | 103.2738 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi1\Sequence\112119pst.seq
**User :** JJY
**Printed :** 11/22/2019 10:13:43

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi1\data\112119pst\025.dat | TC CCV PP6041 | 11/22/2019 10:13:43 |

**front detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 60.192 | 0.320 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.050 | 0.564 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.050 | 0.747 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.050 | 0.276 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.049 | 2.547 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.053 | 6.253 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.051 | 2.888 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.054 | 8.043 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.052 | 4.549 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.054 | 8.057 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.057 | 14.170 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 64.142 | 6.903 | 20.000 | Passed |
| Chlordane | 0.250 | 0.253 | 1.059 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.269 | 7.541 | 20.000 | Passed |

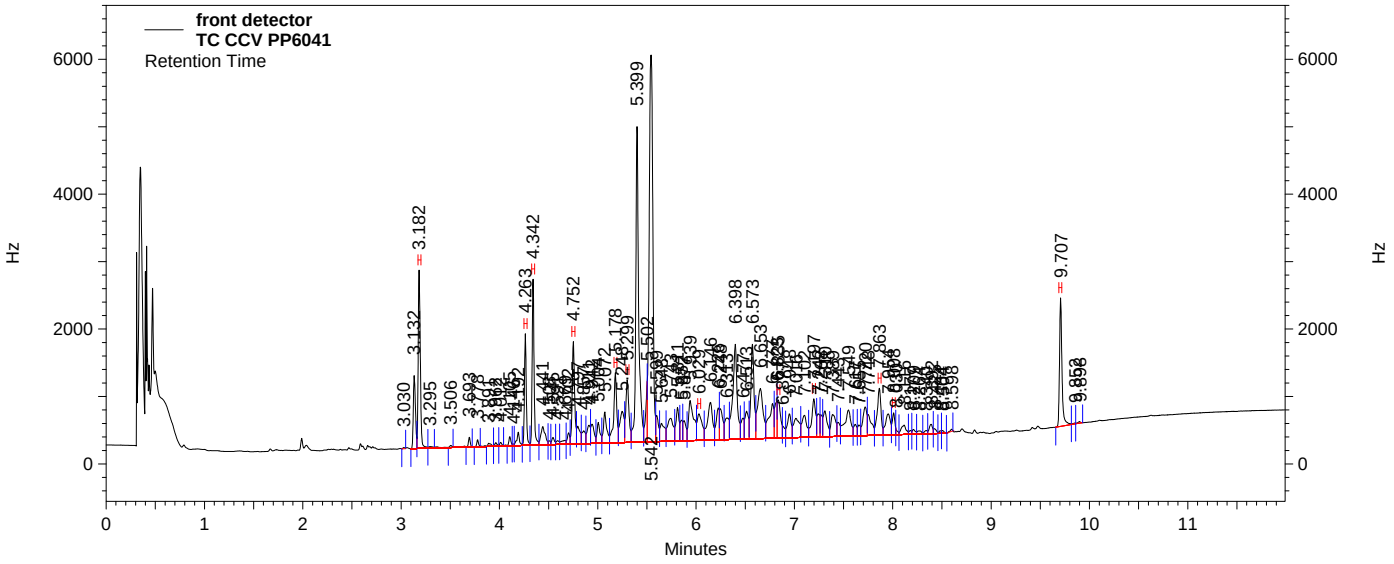
**back detector**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRTCMXPEST | 60.000 | 59.021 | 1.631 | 20.000 | Passed |
| Chlordane #1 | 0.050 | 0.050 | 0.235 | 20.000 | Passed |
| Chlordane #2 | 0.050 | 0.050 | 0.768 | 20.000 | Passed |
| Chlordane #3 | 0.050 | 0.050 | 0.819 | 20.000 | Passed |
| Chlordane #4 | 0.050 | 0.050 | 0.667 | 20.000 | Passed |
| Chlordane #5 | 0.050 | 0.053 | 5.723 | 20.000 | Passed |
| Toxaphene #1 | 0.050 | 0.053 | 5.440 | 20.000 | Passed |
| Toxaphene #2 | 0.050 | 0.053 | 6.473 | 20.000 | Passed |
| Toxaphene #3 | 0.050 | 0.058 | 15.964 | 20.000 | Passed |
| Toxaphene #4 | 0.050 | 0.056 | 11.708 | 20.000 | Passed |
| Toxaphene #5 | 0.050 | 0.059 | 17.198 | 20.000 | Passed |
| SURRDCBPEST | 60.000 | 63.019 | 5.032 | 20.000 | Passed |
| Chlordane | 0.250 | 0.252 | 0.914 | 20.000 | Passed |
| Toxaphene | 0.250 | 0.278 | 11.357 | 20.000 | Passed |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\025.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** TC CCV PP6041
**Acquired:** 11/21/2019 23:34:21
**Printed:** 11/22/2019 10:13:41

**Data Summary: {Data Description}**



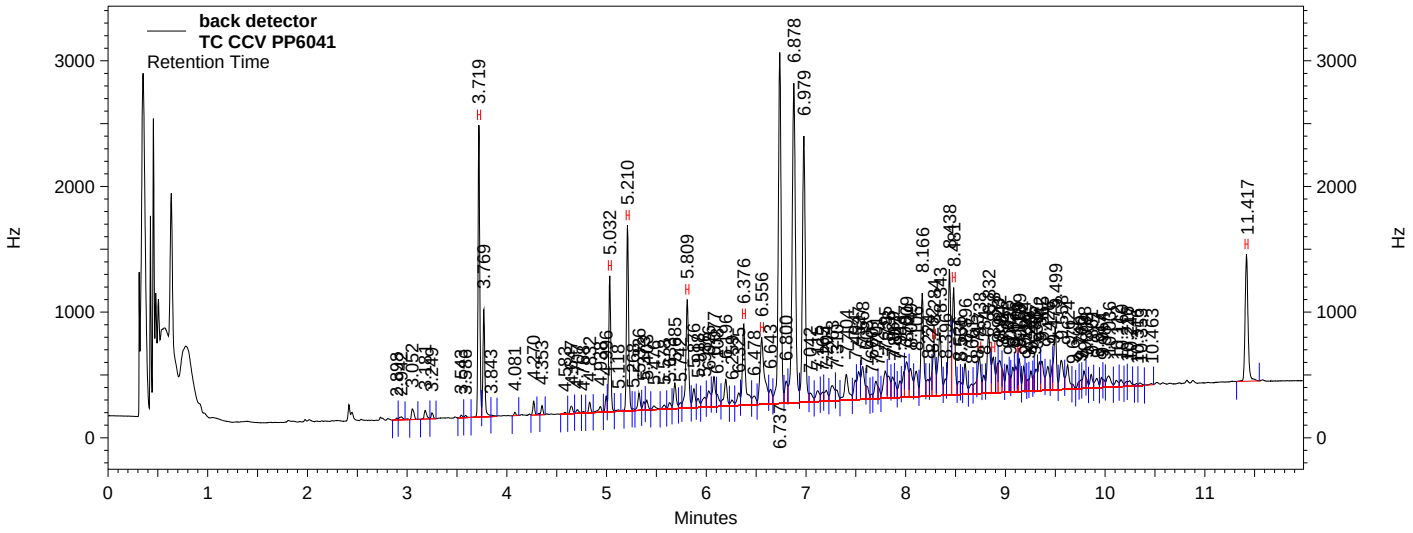

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.182 | 30939456 | 60.1921 |
| Chlordane #1 | 4.263 | 16575552 | 0.0503 |
| Chlordane #2 | 4.342 | 25659159 | 0.0504 |
| Chlordane #3 | 4.752 | 20259332 | 0.0501 |
| Chlordane #4 | 5.178 | 17051139 | 0.0487 |
| Chlordane #5 | 5.299 | 15591350 | 0.0531 |
| Toxaphene #1 | 6.029 | 10688425 | 0.0514 |
| Toxaphene #2 | 6.835 | 10155668 | 0.0540 |
| Toxaphene #3 | 7.197 | 12081056 | 0.0523 |
| Toxaphene #4 | 7.863 | 14333130 | 0.0540 |
| Toxaphene #5 | 8.008 | 4557339 | 0.0571 |
| SURRDCBPEST | 9.707 | 25152271 | 64.1420 |
| | | | |
| Chlordane | | 95136532 | 0.2526 |
| Toxaphene | | 51815618 | 0.2689 |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\025.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** TC CCV PP6041
**Acquired:** 11/21/2019 23:34:21
**Printed:** 11/22/2019 10:13:41

**Data Summary: {Data Description}**




**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.719 | 21727598 | 59.0212 |
| Chlordane #1 | 5.032 | 11660041 | 0.0499 |
| Chlordane #2 | 5.210 | 16810440 | 0.0496 |
| Chlordane #3 | 5.809 | 12968250 | 0.0496 |
| Chlordane #4 | 6.376 | 10849167 | 0.0503 |
| Chlordane #5 | 6.556 | 12630493 | 0.0529 |
| Toxaphene #1 | 8.284 | 5988338 | 0.0527 |
| Toxaphene #2 | 8.481 | 12188009 | 0.0532 |
| Toxaphene #3 | 8.738 | 4673145 | 0.0580 |
| Toxaphene #4 | 8.878 | 4461171 | 0.0559 |
| Toxaphene #5 | 9.139 | 2809248 | 0.0586 |
| SURRDCBPEST | 11.417 | 15684154 | 63.0191 |
| | | | |
| Chlordane | | 64918391 | 0.2523 |
| Toxaphene | | 30119911 | 0.2784 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi6\Sequence\112219hrb.seq
**User :** JJY
**Printed :** 11/25/2019 09:06:08

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi6\Data\112219hrb\003.dat | AH CCV PP 6083 | 11/25/2019 09:06:08 |

**Front Signal**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRDCAA | 100.000 | 101.987 | 1.987 | 20.000 | Passed |
| 2,4-D | 0.500 | 0.521 | 4.157 | 20.000 | Passed |
| Silvex | 0.100 | 0.104 | 4.283 | 20.000 | Passed |

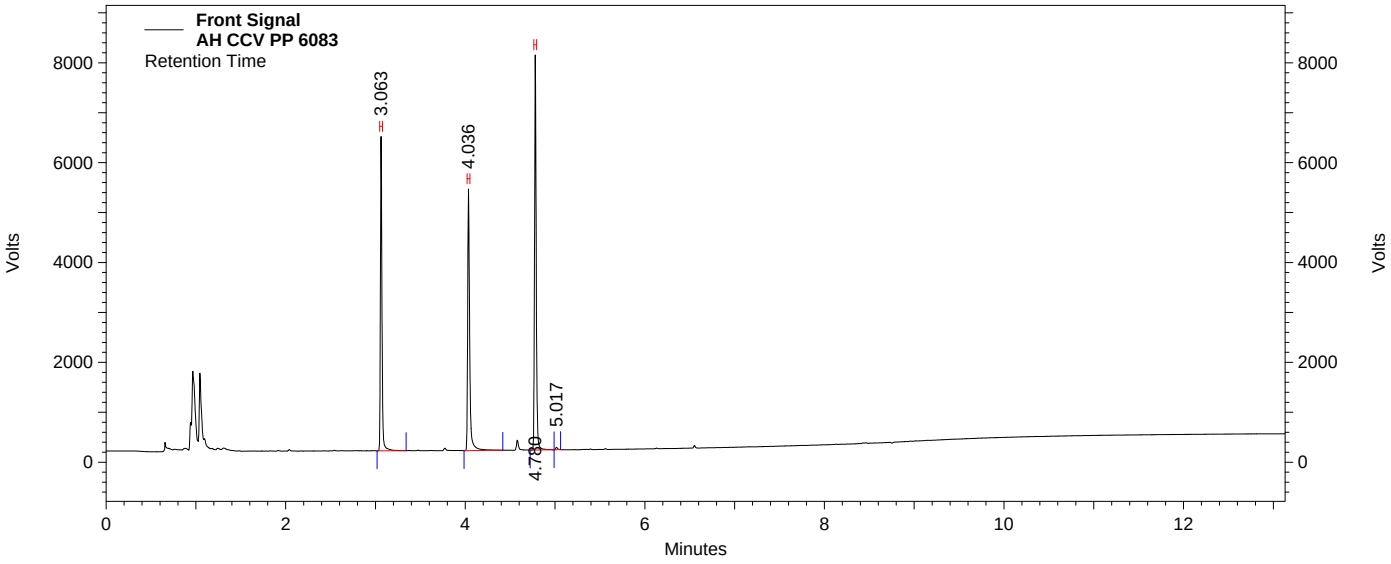
**Back Signal**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRDCAA | 100.000 | 101.066 | 1.066 | 20.000 | Passed |
| 2,4-D | 0.500 | 0.508 | 1.695 | 20.000 | Passed |
| Silvex | 0.100 | 0.101 | 0.574 | 20.000 | Passed |

# ***Pesticide Analysis Report*** *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\003.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** AH CCV PP 6083
**Acquired:** 11/22/2019 15:54:32
**Printed:** 11/25/2019 09:06:07

**Data Summary: {Data Description}**



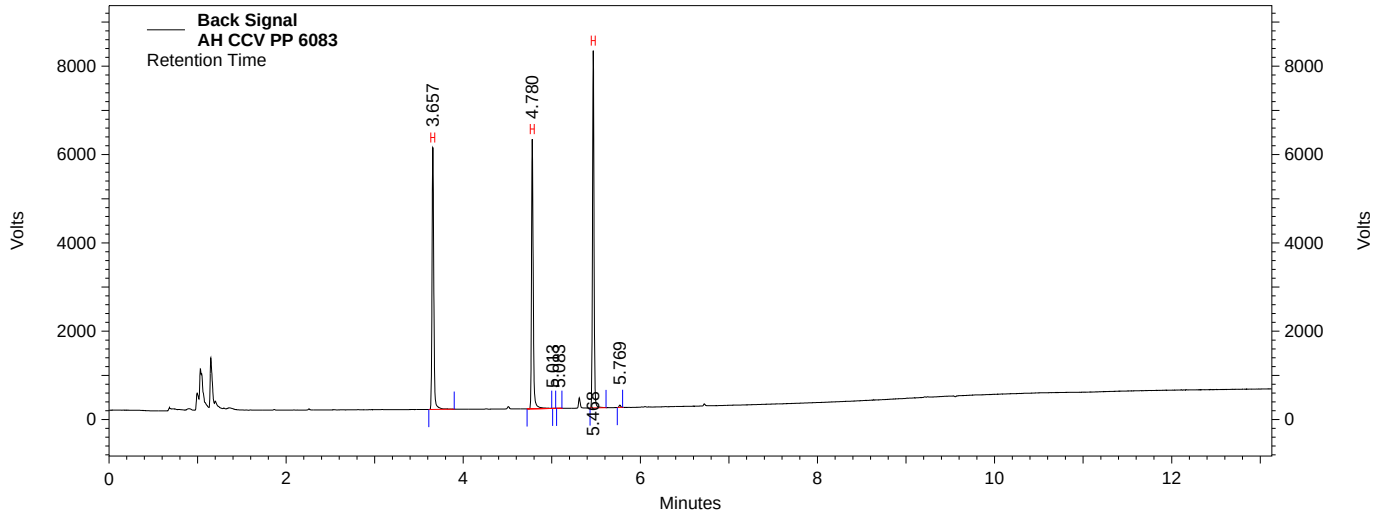

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.063 | 58586266 | 101.9868 |
| 2,4-D | 4.036 | 62323092 | 0.5208 |
| Silvex | 4.780 | 80205380 | 0.1043 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\003.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** AH CCV PP 6083
**Acquired:** 11/22/2019 15:54:32
**Printed:** 11/25/2019 09:06:07

**Data Summary: {Data Description}**




**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.657 | 63163835 | 101.0658 |
| 2,4-D | 4.780 | 62166538 | 0.5085 |
| Silvex | 5.468 | 74114409 | 0.1006 |

# QC Check Standard Report



**Sequence :** C:\Instarch\Semi6\Sequence\112219hrb.seq
**User :** JJY
**Printed :** 11/25/2019 09:06:43

| File | Sample ID | Acquired |
|---|---|---|
| C:\Instarch\Semi6\Data\112219hrb\014.dat | AH CCV PP 6083 | 11/25/2019 09:06:42 |

**Front Signal**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRDCAA | 100.000 | 103.370 | 3.370 | 20.000 | Passed |
| 2,4-D | 0.500 | 0.539 | 7.777 | 20.000 | Passed |
| Silvex | 0.100 | 0.106 | 5.906 | 20.000 | Passed |

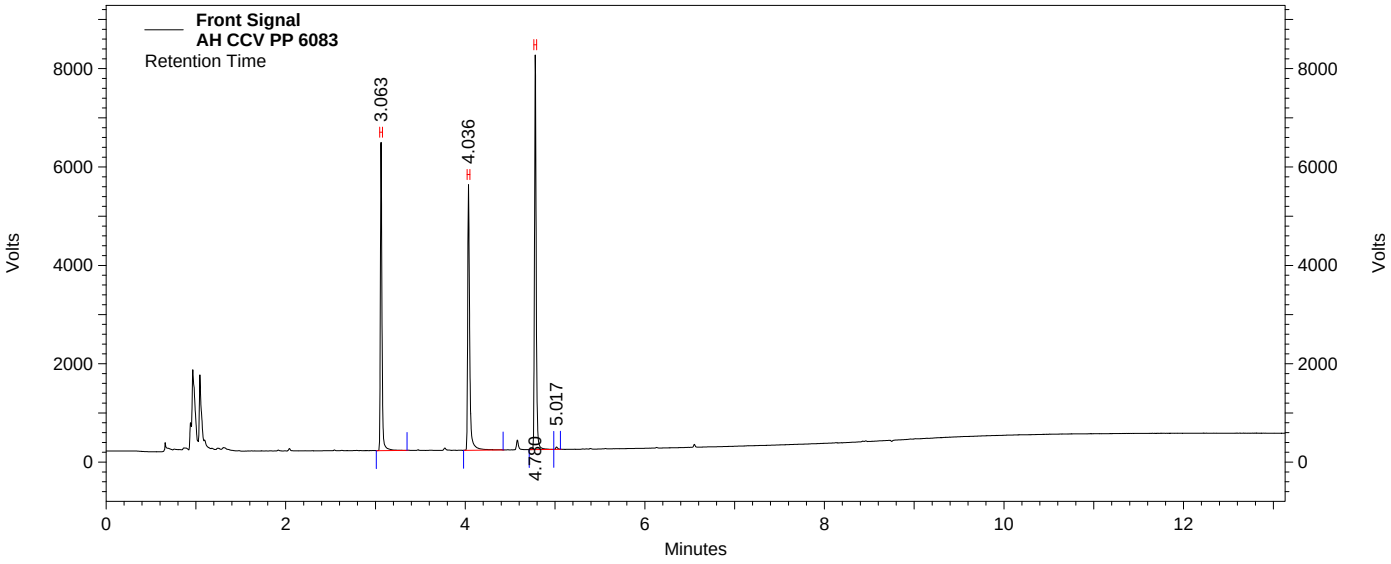
**Back Signal**

| Compound | Expected Conc. | Actual Conc. | %RD Actual | %RD Limit | Status |
|---|---|---|---|---|---|
| SURRDCAA | 100.000 | 103.615 | 3.615 | 20.000 | Passed |
| 2,4-D | 0.500 | 0.550 | 9.909 | 20.000 | Passed |
| Silvex | 0.100 | 0.107 | 7.129 | 20.000 | Passed |

# ***Pesticide Analysis Report*** *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\014.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** AH CCV PP 6083
**Acquired:** 11/22/2019 18:59:35
**Printed:** 11/25/2019 09:06:41

**Data Summary: {Data Description}**



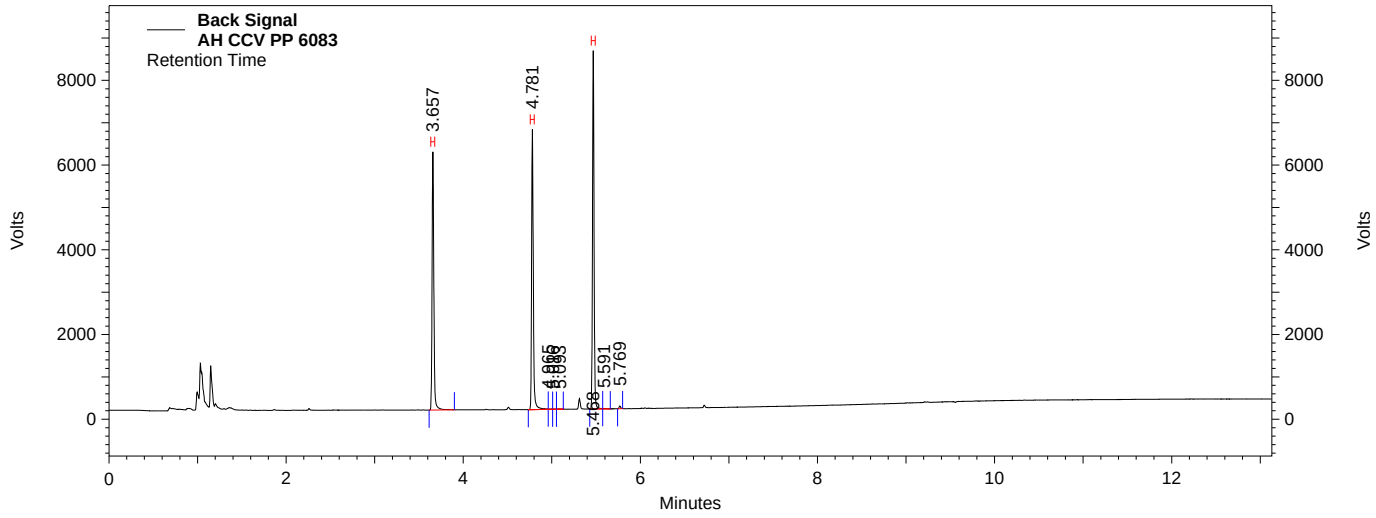

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.063 | 59369276 | 103.3696 |
| 2,4-D | 4.036 | 64473985 | 0.5389 |
| Silvex | 4.780 | 81457439 | 0.1059 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\014.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** AH CCV PP 6083
**Acquired:** 11/22/2019 18:59:35
**Printed:** 11/25/2019 09:06:41

**Data Summary: {Data Description}**




**Back Signal Results**

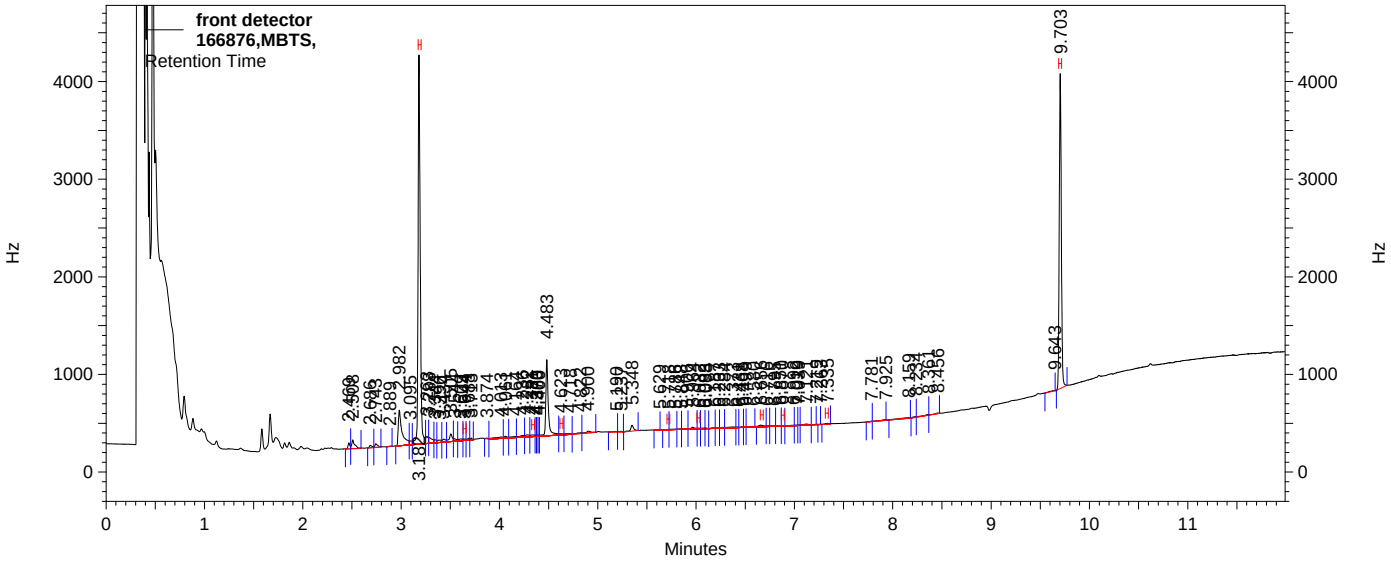
| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.657 | 64736230 | 103.6146 |
| 2,4-D | 4.781 | 67177403 | 0.5495 |
| Silvex | 5.468 | 78947913 | 0.1071 |

# PESTICIDE/HERBICIDE QUALITY CONTROL DOCUMENTS

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\007.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MBTS,
**Acquired:** 11/21/2019 18:40:49
**Printed:** 11/22/2019 10:12:37

**Data Summary: {Data Description}**



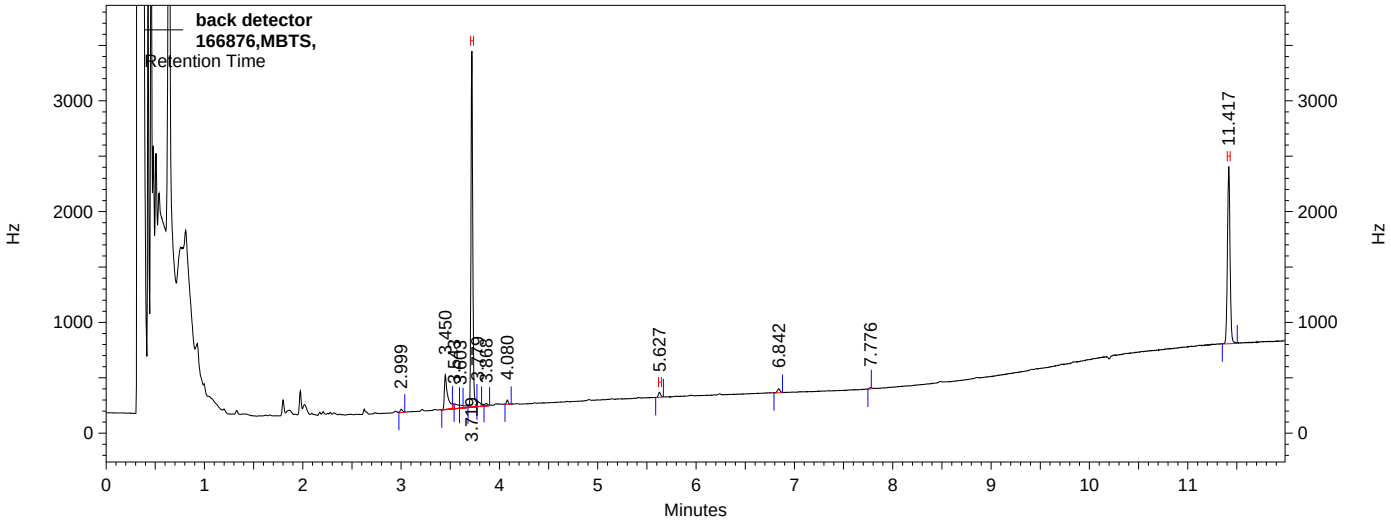

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.182 | 46731759 | 89.5943 |
| ALPHABHC | 3.644 | 186078 | 0.0001 |
| LINDANE | | | 0.0000 BDL |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | | | 0.0000 BDL |
| HEPTACHLOR | 4.331 | 371419 | 0.0000 |
| ALDRIN | 4.623 | 283460 | 0.0000 |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | | | 0.0000 BDL |
| 44DDE | | | 0.0000 BDL |
| ENDOI | 5.718 | 94114 | 0.0000 |
| DIELDRIN | 6.032 | 113791 | 0.0000 |
| ENDRIN | | | 0.0000 BDL |
| 44DDD | | | 0.0000 BDL |
| ENDOII | 6.656 | 505267 | 0.0001 |
| 44DDT | 6.870 | 78030 | 0.0000 |
| ENDRINALDEH | 7.335 | 226684 | 0.0000 |
| METHOXYCL | | | 0.0000 BDL |
| ENDOSULFATE | | | 0.0000 BDL |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 9.703 | 35651909 | 91.8269 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\007.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MBTS,
**Acquired:** 11/21/2019 18:40:49
**Printed:** 11/22/2019 10:12:37

**Data Summary: {Data Description}**



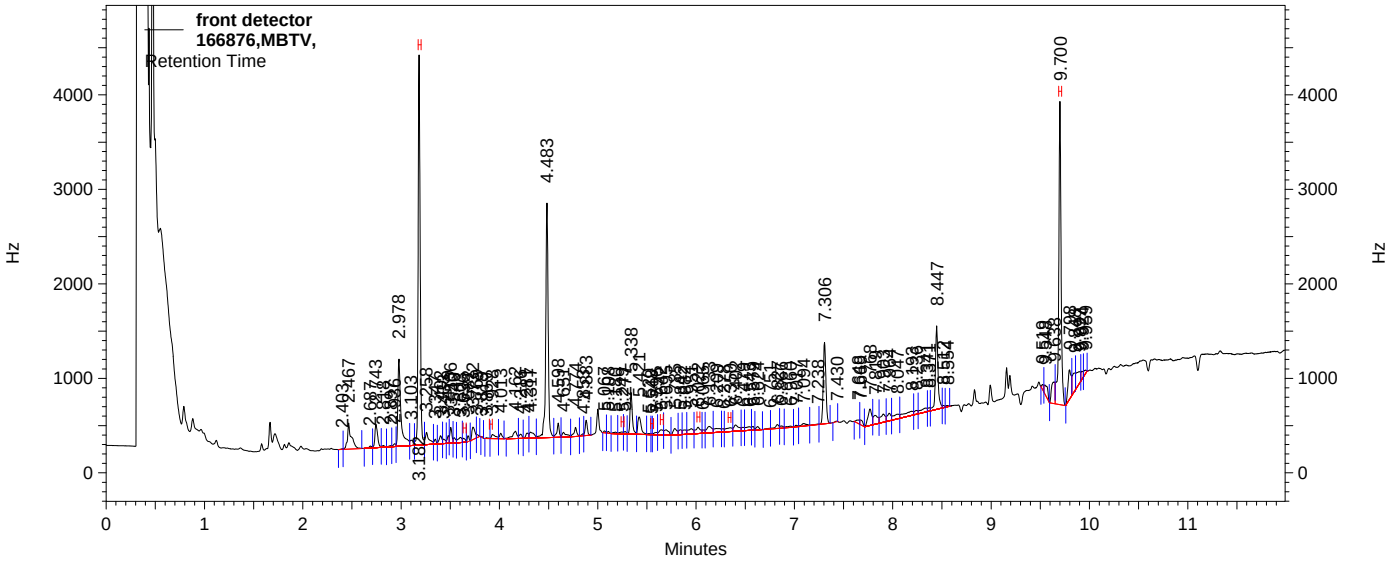

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.719 | 31637826 | 84.9832 |
| ALPHABHC | | | 0.0000 BDL |
| LINDANE | | | 0.0000 BDL |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | | | 0.0000 BDL |
| HEPTACHLOR | | | 0.0000 BDL |
| ALDRIN | 5.627 | 596232 | 0.0000 |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | | | 0.0000 BDL |
| ENDOI | | | 0.0000 BDL |
| 44DDE | | | 0.0000 BDL |
| DIELDRIN | | | 0.0000 BDL |
| ENDRIN | | | 0.0000 BDL |
| 44DDD | | | 0.0000 BDL |
| ENDOII | | | 0.0000 BDL |
| 44DDT | | | 0.0000 BDL |
| ENDRINALDEH | | | 0.0000 BDL |
| ENDOSULFATE | | | 0.0000 BDL |
| METHOXYCL | | | 0.0000 BDL |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 11.417 | 22773161 | 91.1558 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\008.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MBTV,
**Acquired:** 11/21/2019 18:57:06
**Printed:** 11/22/2019 10:12:40

**Data Summary: {Data Description}**



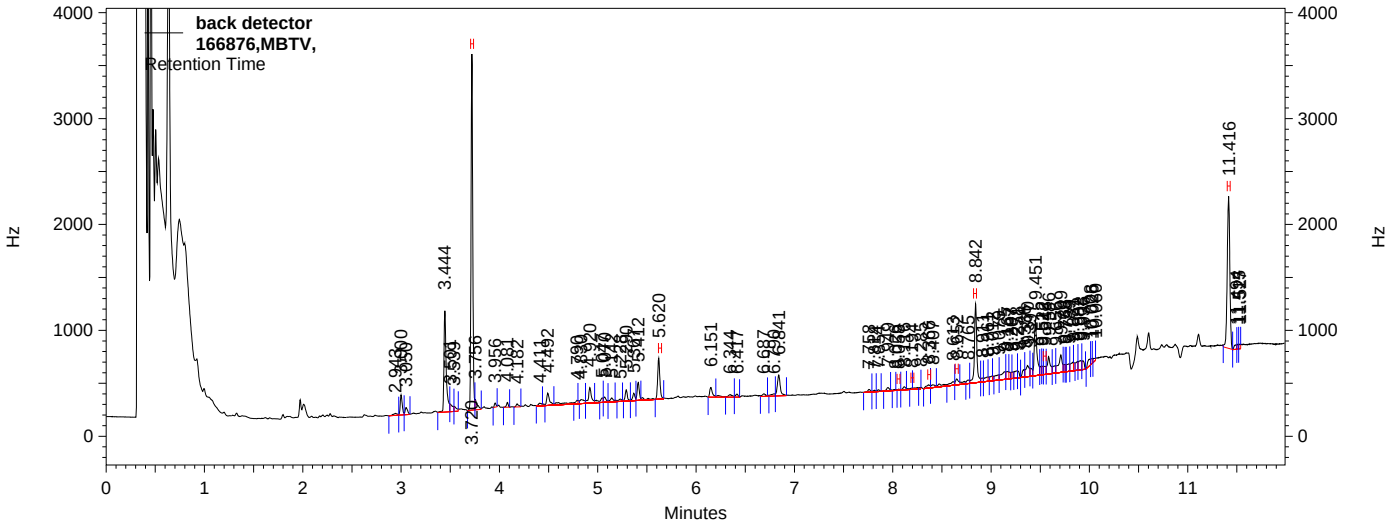

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.182 | 45868006 | 87.9554 |
| ALPHABHC | 3.636 | 606151 | 0.0003 |
| LINDANE | 3.928 | 985720 | 0.0004 |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | | | 0.0000 BDL |
| HEPTACHLOR | | | 0.0000 BDL |
| ALDRIN | | | 0.0000 BDL |
| HEPTAEPOX | 5.249 | 389295 | 0.0000 |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | 5.548 | 60898 | 0.0000 |
| 44DDE | 5.642 | 1256805 | 0.0008 |
| ENDOI | | | 0.0000 BDL |
| DIELDRIN | 6.022 | 1765161 | 0.0006 |
| ENDRIN | 6.350 | 1420625 | 0.0010 |
| 44DDD | | | 0.0000 BDL |
| ENDOII | | | 0.0000 BDL |
| 44DDT | | | 0.0000 BDL |
| ENDRINALDEH | | | 0.0000 BDL |
| METHOXYCL | | | 0.0000 BDL |
| ENDOSULFATE | | | 0.0000 BDL |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 9.700 | 39504224 | 101.8770 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\008.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MBTV,
**Acquired:** 11/21/2019 18:57:06
**Printed:** 11/22/2019 10:12:40

**Data Summary: {Data Description}**



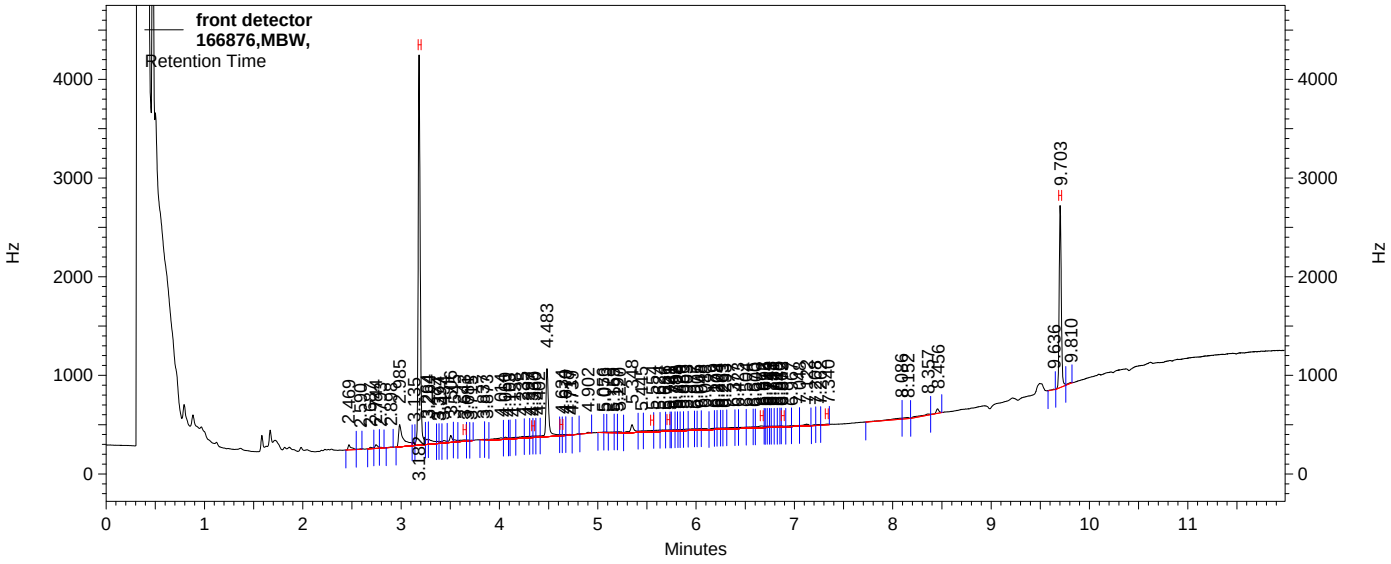

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 31781810 | 85.3760 |
| ALPHABHC | | | 0.0000 BDL |
| LINDANE | | | 0.0000 BDL |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | | | 0.0000 BDL |
| HEPTACHLOR | | | 0.0000 BDL |
| ALDRIN | 5.620 | 4743306 | 0.0024 |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | | | 0.0000 BDL |
| ENDOI | | | 0.0000 BDL |
| 44DDE | | | 0.0000 BDL |
| DIELDRIN | | | 0.0000 BDL |
| ENDRIN | 8.058 | 130810 | 0.0000 |
| 44DDD | 8.194 | 148393 | 0.0000 |
| ENDOII | 8.366 | 633052 | 0.0003 |
| 44DDT | 8.652 | 941958 | 0.0010 |
| ENDRINALDEH | 8.842 | 9557208 | 0.0100 |
| ENDOSULFATE | | | 0.0000 BDL |
| METHOXYCL | 9.548 | 1019468 | 0.0028 |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 11.416 | 20073374 | 80.2514 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\009.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MBW,
**Acquired:** 11/21/2019 19:13:24
**Printed:** 11/22/2019 10:12:43

**Data Summary: {Data Description}**



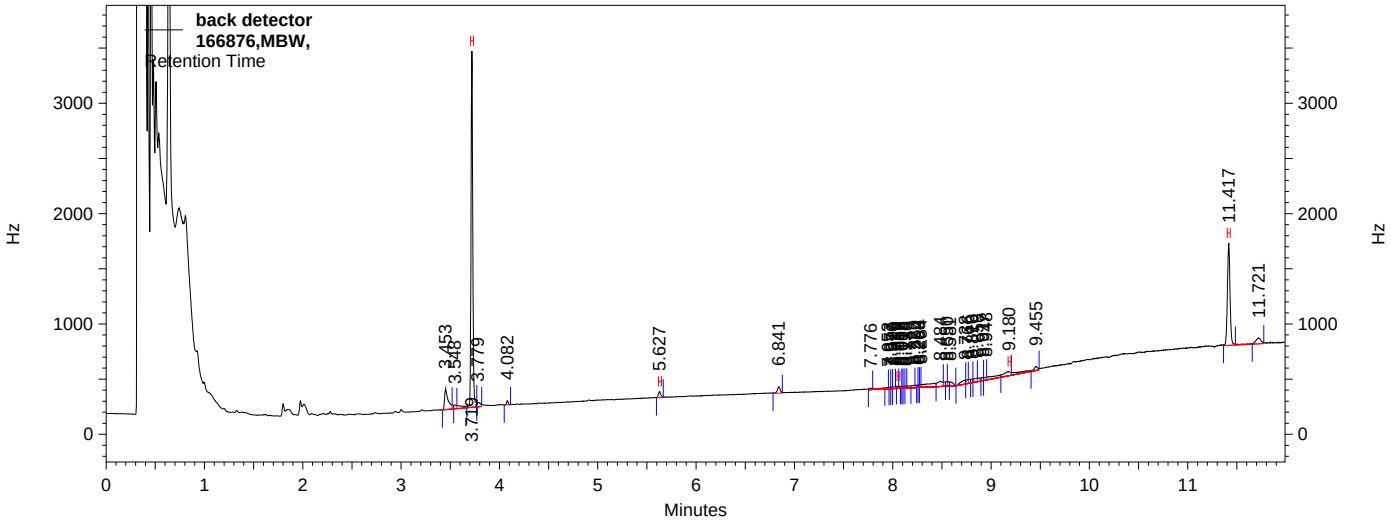

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.182 | 44108133 | 84.6134 |
| ALPHABHC | 3.643 | 520545 | 0.0003 |
| LINDANE | | | 0.0000 BDL |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | | | 0.0000 BDL |
| HEPTACHLOR | 4.333 | 230530 | 0.0000 |
| ALDRIN | 4.634 | 147755 | 0.0000 |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | 5.554 | 637653 | 0.0001 |
| 44DDE | | | 0.0000 BDL |
| ENDOI | 5.721 | 276773 | 0.0000 |
| DIELDRIN | | | 0.0000 BDL |
| ENDRIN | | | 0.0000 BDL |
| 44DDD | | | 0.0000 BDL |
| ENDOII | 6.672 | 558678 | 0.0001 |
| 44DDT | 6.873 | 156829 | 0.0001 |
| ENDRINALDEH | 7.340 | 243558 | 0.0000 |
| METHOXYCL | | | 0.0000 BDL |
| ENDOSULFATE | | | 0.0000 BDL |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 9.703 | 20500628 | 52.4156 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\009.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MBW,
**Acquired:** 11/21/2019 19:13:24
**Printed:** 11/22/2019 10:12:43

**Data Summary: {Data Description}**



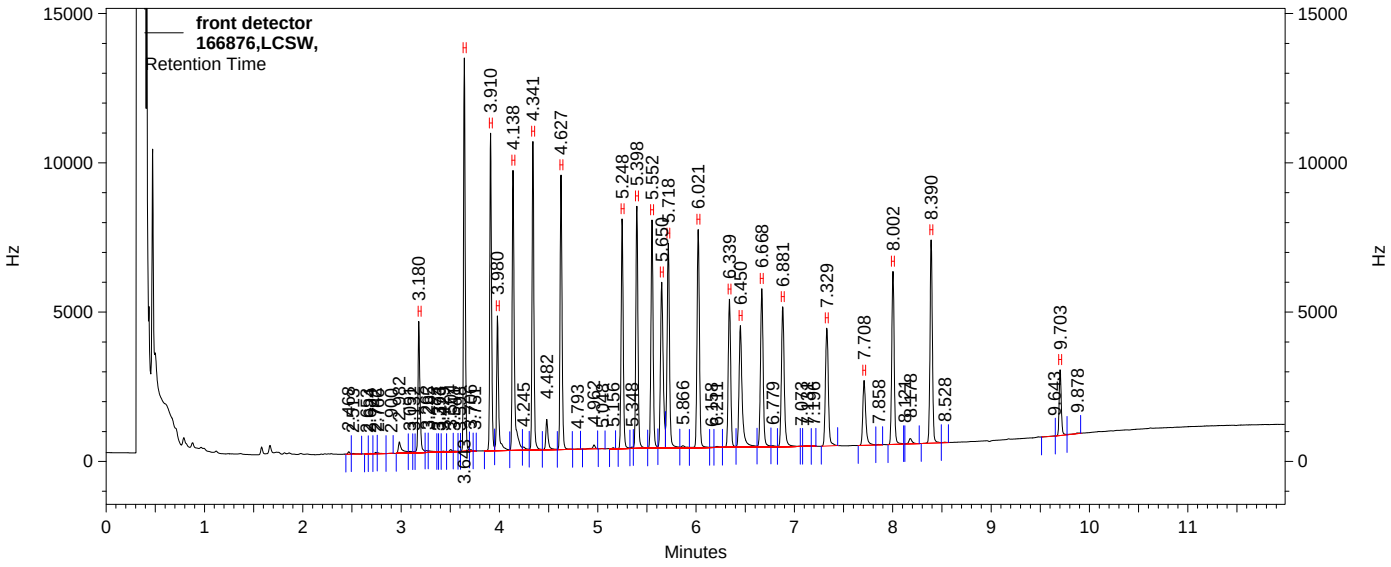

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.719 | 30842354 | 82.8142 |
| ALPHABHC | | | 0.0000 BDL |
| LINDANE | | | 0.0000 BDL |
| BETABHC | | | 0.0000 BDL |
| DELTABHC | | | 0.0000 BDL |
| HEPTACHLOR | | | 0.0000 BDL |
| ALDRIN | 5.627 | 733154 | 0.0001 |
| HEPTAEPOX | | | 0.0000 BDL |
| GAMMACHLOR | | | 0.0000 BDL |
| ALPHACHLOR | | | 0.0000 BDL |
| ENDOI | | | 0.0000 BDL |
| 44DDE | | | 0.0000 BDL |
| DIELDRIN | | | 0.0000 BDL |
| ENDRIN | 8.057 | 197673 | 0.0000 |
| 44DDD | | | 0.0000 BDL |
| ENDOII | | | 0.0000 BDL |
| 44DDT | | | 0.0000 BDL |
| ENDRINALDEH | | | 0.0000 BDL |
| ENDOSULFATE | 9.180 | 1386607 | 0.0010 |
| METHOXYCL | | | 0.0000 BDL |
| ENDRINKETONE | | | 0.0000 BDL |
| SURRDCBPEST | 11.417 | 13259142 | 52.6755 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\010.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,LCSW,
**Acquired:** 11/21/2019 19:29:41
**Printed:** 11/22/2019 10:12:47

**Data Summary: {Data Description}**



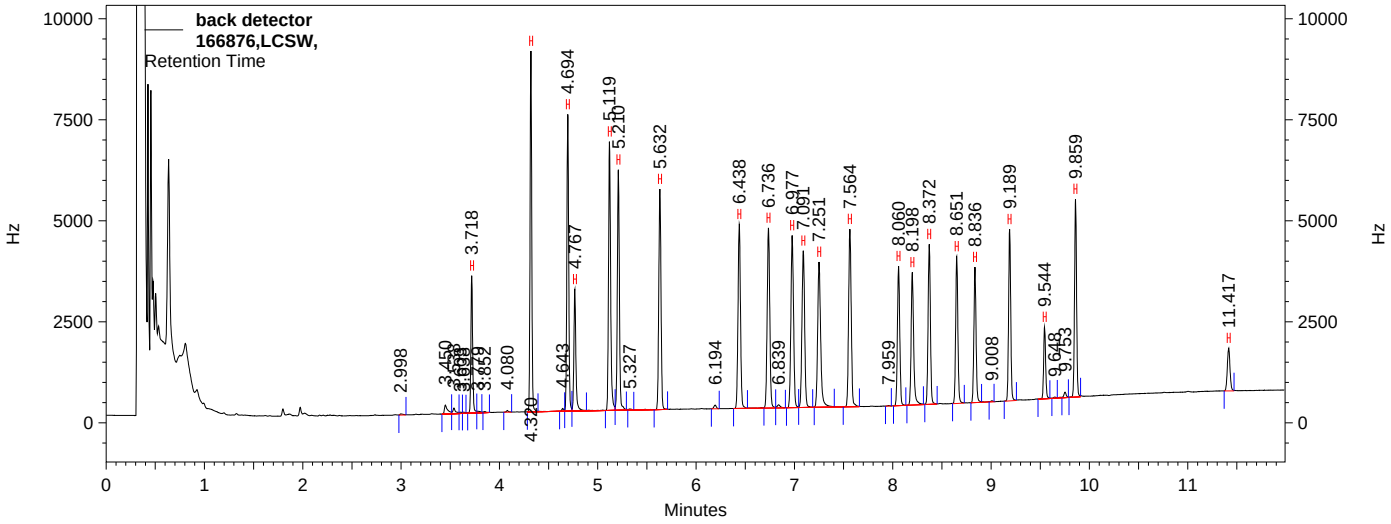

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.180 | 47233916 | 90.5467 |
| ALPHABHC | 3.643 | 119563464 | 0.0397 |
| LINDANE | 3.910 | 101113787 | 0.0391 |
| BETABHC | 3.980 | 49382650 | 0.0407 |
| DELTABHC | 4.138 | 107024070 | 0.0419 |
| HEPTACHLOR | 4.341 | 104679720 | 0.0389 |
| ALDRIN | 4.627 | 96317968 | 0.0393 |
| HEPTAEPOX | 5.248 | 86985574 | 0.0395 |
| GAMMACHLOR | 5.398 | 93530870 | 0.0403 |
| ALPHACHLOR | 5.552 | 89878700 | 0.0394 |
| 44DDE | 5.650 | 81550543 | 0.0450 |
| ENDOI | 5.718 | 90918018 | 0.0380 |
| DIELDRIN | 6.021 | 94465981 | 0.0413 |
| ENDRIN | 6.339 | 65555337 | 0.0565 |
| 44DDD | 6.450 | 69289055 | 0.0433 |
| ENDOII | 6.668 | 77388264 | 0.0407 |
| 44DDT | 6.881 | 73255200 | 0.0468 |
| ENDRINALDEH | 7.329 | 62478185 | 0.0430 |
| METHOXYCL | 7.708 | 34871704 | 0.0514 |
| ENDOSULFATE | 8.002 | 77749964 | 0.0436 |
| ENDRINKETONE | 8.390 | 87485459 | 0.0405 |
| SURRDCBPEST | 9.703 | 24770760 | 63.5044 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\010.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,LCSW,
**Acquired:** 11/21/2019 19:29:41
**Printed:** 11/22/2019 10:12:47

**Data Summary: {Data Description}**



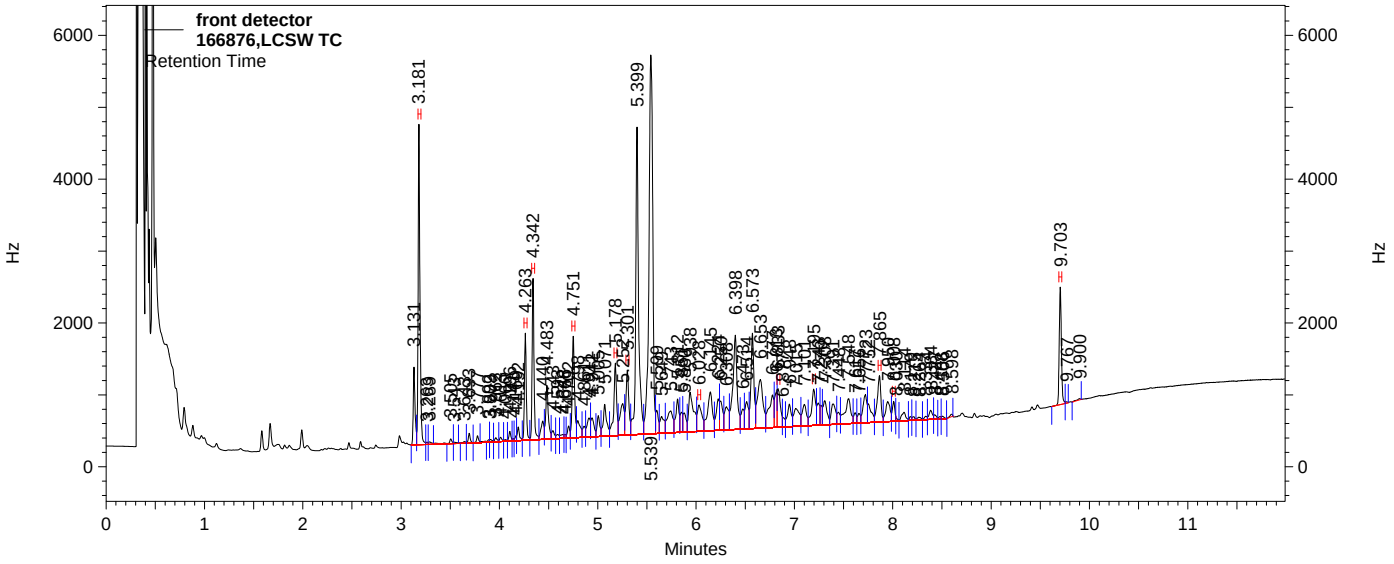

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.718 | 32873661 | 88.3550 |
| ALPHABHC | 4.320 | 82237178 | 0.0383 |
| LINDANE | 4.694 | 73104072 | 0.0383 |
| BETABHC | 4.767 | 33119875 | 0.0402 |
| DELTABHC | 5.119 | 75456518 | 0.0408 |
| HEPTACHLOR | 5.210 | 67178132 | 0.0371 |
| ALDRIN | 5.632 | 65204239 | 0.0377 |
| HEPTAEPOX | 6.438 | 61561954 | 0.0391 |
| GAMMACHLOR | 6.736 | 61963440 | 0.0394 |
| ALPHACHLOR | 6.977 | 60287011 | 0.0392 |
| ENDOI | 7.091 | 57265837 | 0.0397 |
| 44DDE | 7.251 | 58907610 | 0.0404 |
| DIELDRIN | 7.564 | 62307795 | 0.0406 |
| ENDRIN | 8.060 | 43830348 | 0.0542 |
| 44DDD | 8.198 | 44719177 | 0.0393 |
| ENDOII | 8.372 | 49548613 | 0.0387 |
| 44DDT | 8.651 | 43740677 | 0.0447 |
| ENDRINALDEH | 8.836 | 39753903 | 0.0418 |
| ENDOSULFATE | 9.189 | 48880584 | 0.0423 |
| METHOXYCL | 9.544 | 19462180 | 0.0484 |
| ENDRINKETONE | 9.859 | 53426557 | 0.0388 |
| SURRDCBPEST | 11.417 | 15560669 | 61.9979 |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\011.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** 166876,LCSW TC
**Acquired:** 11/21/2019 19:46:02
**Printed:** 11/22/2019 10:12:50

**Data Summary: {Data Description}**



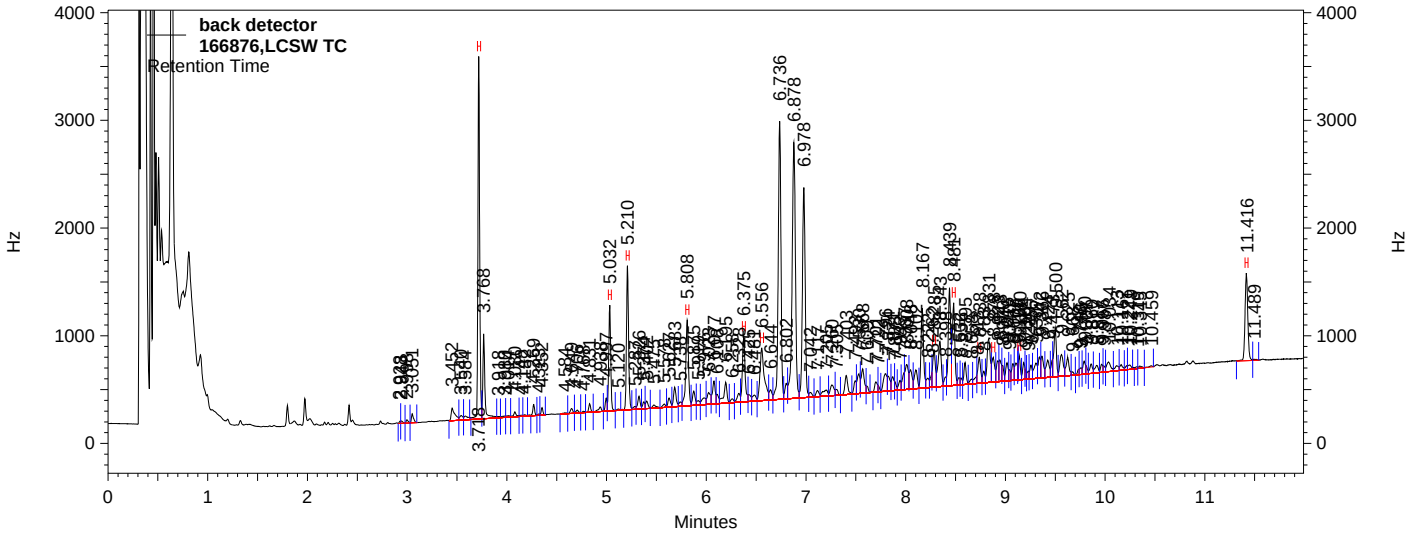

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.181 | 44940774 | 87.2600 |
| Chlordane #1 | 4.263 | 14947560 | 0.0453 |
| Chlordane #2 | 4.342 | 23064505 | 0.0453 |
| Chlordane #3 | 4.751 | 18052927 | 0.0446 |
| Chlordane #4 | 5.178 | 15614764 | 0.0446 |
| Chlordane #5 | 5.301 | 14251106 | 0.0487 |
| Toxaphene #1 | 6.028 | 9099342 | 0.0439 |
| Toxaphene #2 | 6.833 | 9060695 | 0.0484 |
| Toxaphene #3 | 7.195 | 10921466 | 0.0475 |
| Toxaphene #4 | 7.865 | 12453266 | 0.0472 |
| Toxaphene #5 | 8.008 | 3720832 | 0.0470 |
| SURRDCBPEST | 9.703 | 18826433 | 47.7514 |
| | | | |
| Chlordane | | 85930862 | 0.2285 |
| Toxaphene | | 45255601 | 0.2339 |

# *Pesticide (TOX/Chlordane) Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\011.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119tcic.met
**User:** JJY
**Sample ID:** 166876,LCSW TC
**Acquired:** 11/21/2019 19:46:02
**Printed:** 11/22/2019 10:12:50

**Data Summary: {Data Description}**



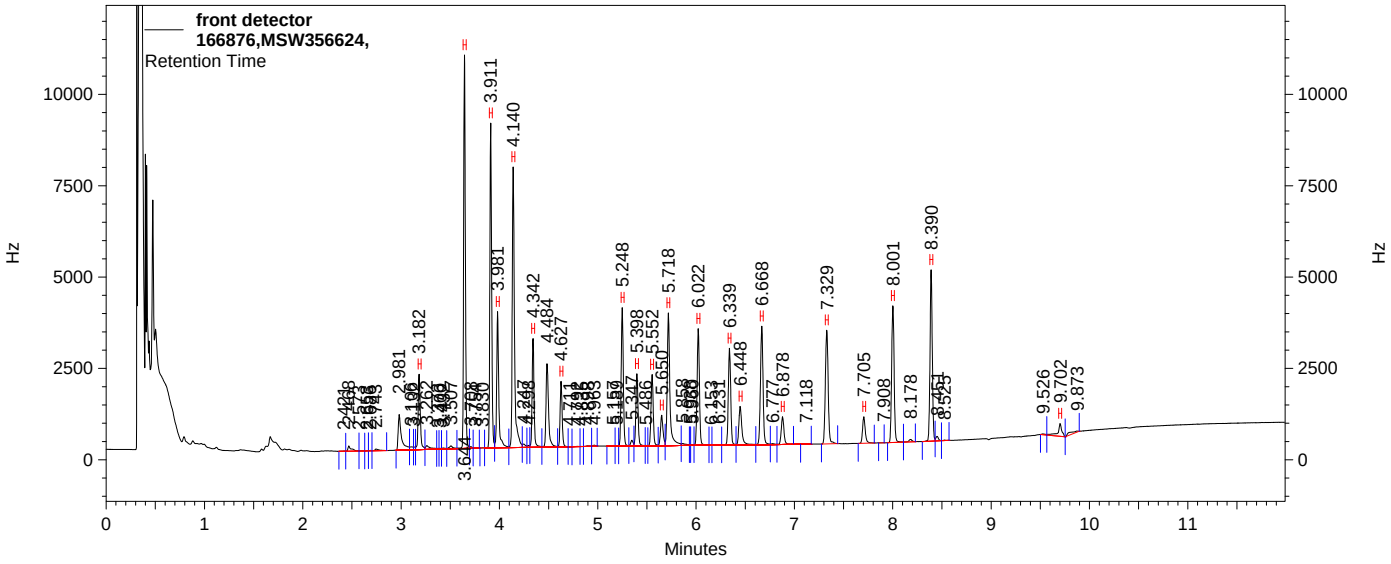

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.718 | 31933600 | 87.0399 |
| Chlordane #1 | 5.032 | 10435710 | 0.0446 |
| Chlordane #2 | 5.210 | 14906628 | 0.0439 |
| Chlordane #3 | 5.808 | 11632141 | 0.0444 |
| Chlordane #4 | 6.375 | 8676620 | 0.0402 |
| Chlordane #5 | 6.556 | 11279092 | 0.0472 |
| Toxaphene #1 | 8.285 | 4959247 | 0.0439 |
| Toxaphene #2 | 8.481 | 10495388 | 0.0458 |
| Toxaphene #3 | 8.738 | 3563541 | 0.0446 |
| Toxaphene #4 | 8.878 | 3543674 | 0.0447 |
| Toxaphene #5 | 9.140 | 2221501 | 0.0468 |
| SURRDCBPEST | 11.416 | 12017769 | 47.9879 |
| | | | |
| Chlordane | | 56930191 | 0.2203 |
| Toxaphene | | 24783351 | 0.2259 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi1\data\112119pst\017.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MSW356624,
**Acquired:** 11/21/2019 21:24:01
**Printed:** 11/22/2019 10:13:09

**Data Summary: {Data Description}**



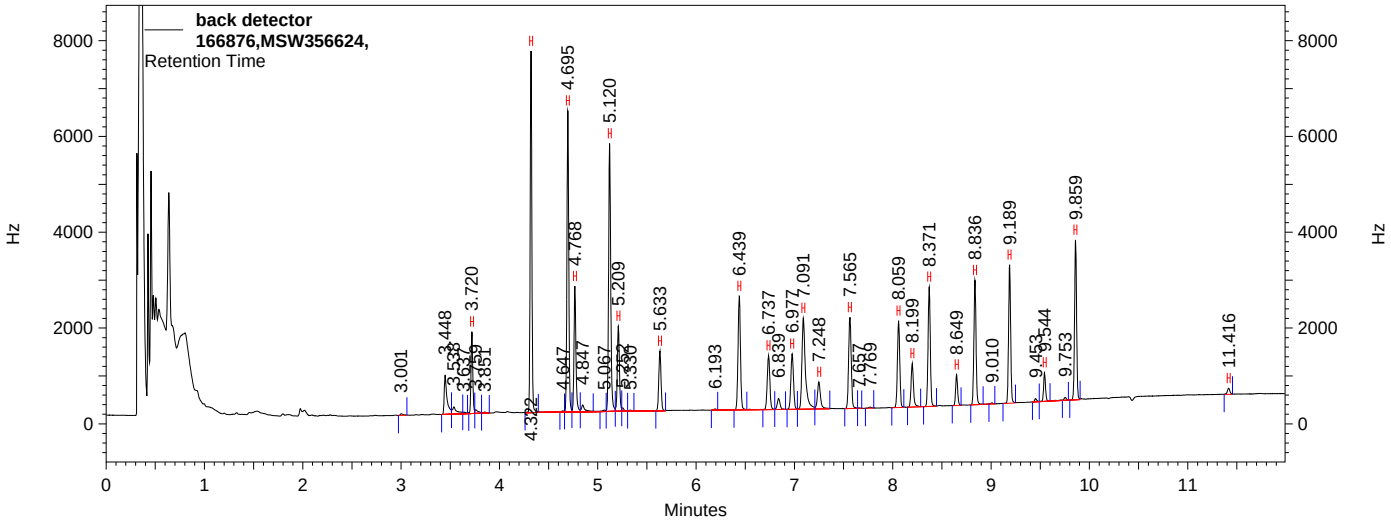

**front detector Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.182 | 24549307 | 47.2094 |
| ALPHABHC | 3.644 | 99439888 | 0.0333 |
| LINDANE | 3.911 | 85100270 | 0.0331 |
| BETABHC | 3.981 | 42357005 | 0.0348 |
| DELTABHC | 4.140 | 93089946 | 0.0368 |
| HEPTACHLOR | 4.342 | 31685315 | 0.0116 |
| ALDRIN | 4.627 | 19611987 | 0.0081 |
| HEPTAEPOX | 5.248 | 43964083 | 0.0199 |
| GAMMACHLOR | 5.398 | 22996126 | 0.0099 |
| ALPHACHLOR | 5.552 | 23487067 | 0.0103 |
| 44DDE | 5.650 | 11394135 | 0.0071 |
| ENDOI | 5.718 | 52178328 | 0.0214 |
| DIELDRIN | 6.022 | 39812291 | 0.0176 |
| ENDRIN | 6.339 | 34161105 | 0.0308 |
| 44DDD | 6.448 | 17309738 | 0.0115 |
| ENDOII | 6.668 | 45969499 | 0.0243 |
| 44DDT | 6.878 | 11216256 | 0.0082 |
| ENDRINALDEH | 7.329 | 47215876 | 0.0328 |
| METHOXYCL | 7.705 | 10764290 | 0.0176 |
| ENDOSULFATE | 8.001 | 50523983 | 0.0285 |
| ENDRINKETONE | 8.390 | 57260791 | 0.0265 |
| SURRDCBPEST | 9.702 | 7648622 | 19.1287 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi1\data\112119pst\017.dat
**Method:** C:\Instarch\Semi1\Methods\Pest\111419pstic\112119pst.met
**User:** JJY
**Sample ID:** 166876,MSW356624,
**Acquired:** 11/21/2019 21:24:01
**Printed:** 11/22/2019 10:13:09

**Data Summary: {Data Description}**



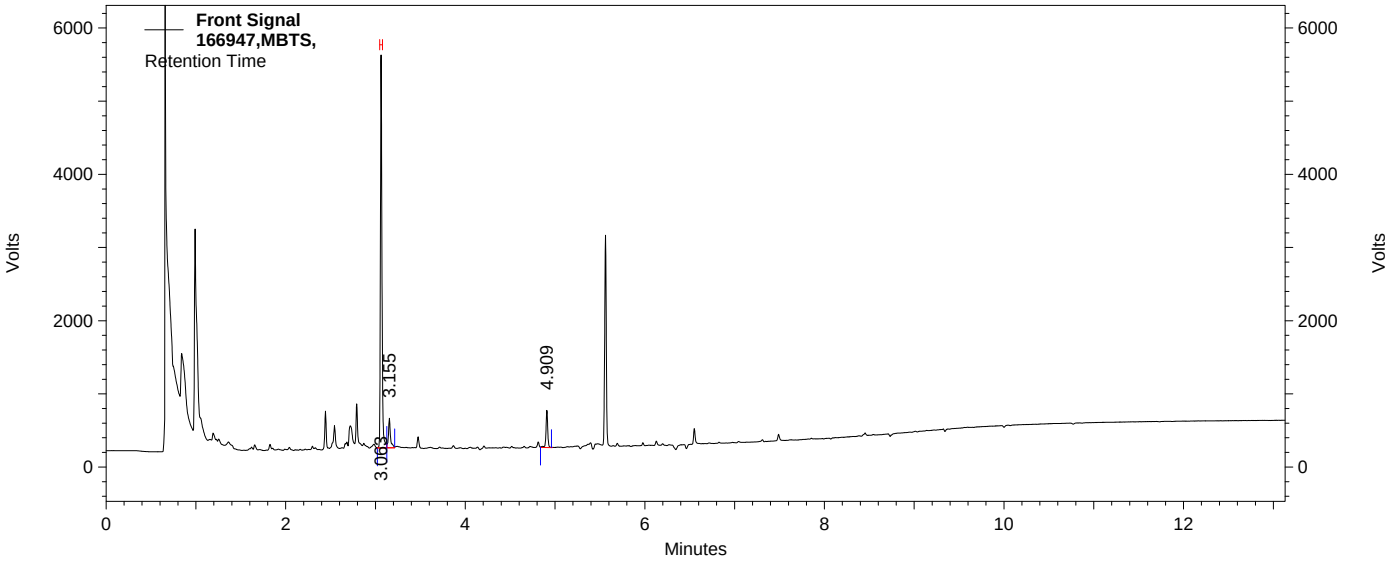

**back detector Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRTCMXPEST | 3.720 | 16441556 | 43.7149 |
| ALPHABHC | 4.322 | 69226061 | 0.0323 |
| LINDANE | 4.695 | 61434506 | 0.0322 |
| BETABHC | 4.768 | 27910549 | 0.0337 |
| DELTABHC | 5.120 | 64516840 | 0.0350 |
| HEPTACHLOR | 5.209 | 20387663 | 0.0109 |
| ALDRIN | 5.633 | 15158949 | 0.0085 |
| HEPTAEPOX | 6.439 | 31468699 | 0.0197 |
| GAMMACHLOR | 6.737 | 15917473 | 0.0100 |
| ALPHACHLOR | 6.977 | 16382210 | 0.0105 |
| ENDOI | 7.091 | 36340879 | 0.0250 |
| 44DDE | 7.248 | 9589462 | 0.0066 |
| DIELDRIN | 7.565 | 27045819 | 0.0175 |
| ENDRIN | 8.059 | 23046475 | 0.0290 |
| 44DDD | 8.199 | 11990645 | 0.0106 |
| ENDOII | 8.371 | 30191665 | 0.0234 |
| 44DDT | 8.649 | 7120512 | 0.0078 |
| ENDRINALDEH | 8.836 | 30621785 | 0.0323 |
| ENDOSULFATE | 9.189 | 32262008 | 0.0279 |
| METHOXYCL | 9.544 | 6263782 | 0.0168 |
| ENDRINKETONE | 9.859 | 36010896 | 0.0261 |
| SURRDCBPEST | 11.416 | 1763976 | 5.9820 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\005.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MBTS,
**Acquired:** 11/22/2019 16:28:07
**Printed:** 11/25/2019 09:25:13

**Data Summary: {Data Description}**



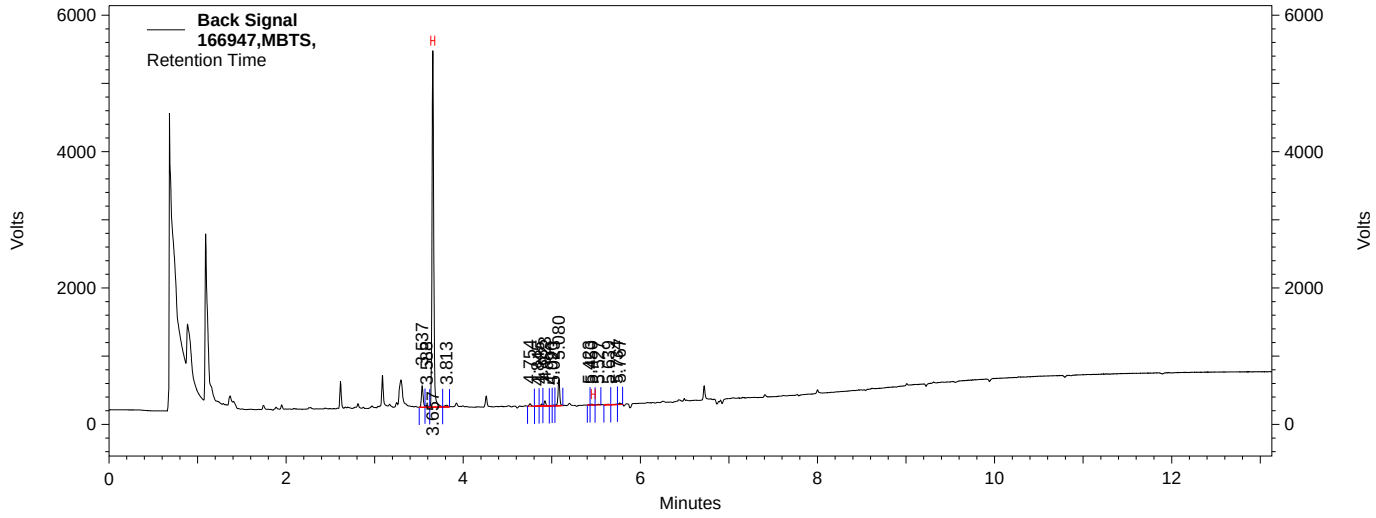

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.063 | 48865396 | 84.8198 |
| 2,4-D | | | 0.0000 BDL |
| Silvex | | | 0.0000 BDL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\005.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MBTS,
**Acquired:** 11/22/2019 16:28:07
**Printed:** 11/25/2019 09:25:13

**Data Summary: {Data Description}**



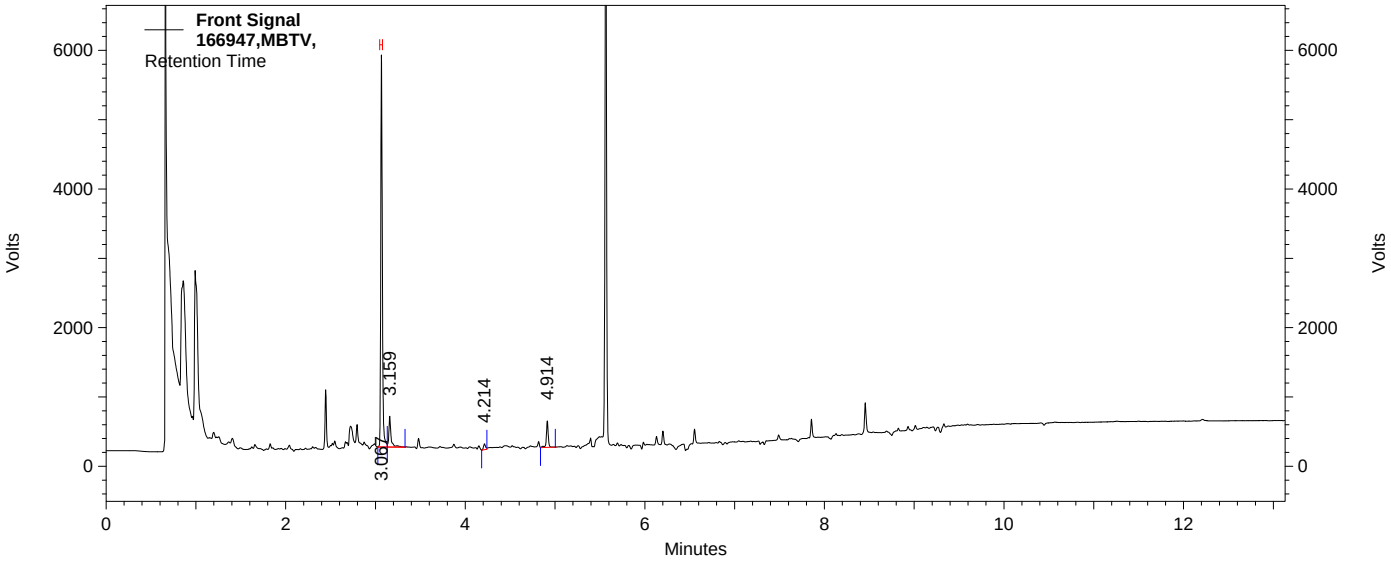

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.657 | 54072462 | 86.3287 |
| 2,4-D | | | 0.0000 BDL |
| Silvex | 5.450 | 159827 | 0.0003 |

# ***Pesticide Analysis Report*** *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\006.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MBTV,
**Acquired:** 11/22/2019 16:44:56
**Printed:** 11/25/2019 09:26:37

**Data Summary: {Data Description}**



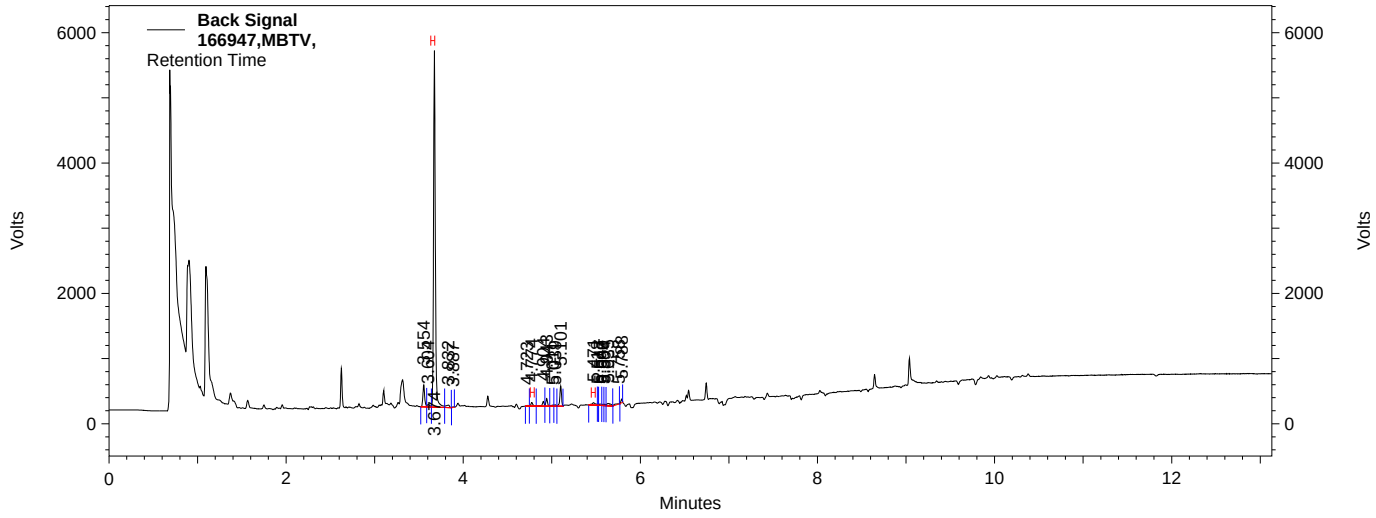

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.067 | 52501439 | 91.2410 |
| 2,4-D | | | 0.0000 BDL |
| Silvex | | | 0.0000 BDL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\006.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MBTV,
**Acquired:** 11/22/2019 16:44:56
**Printed:** 11/25/2019 09:26:37

**Data Summary: {Data Description}**



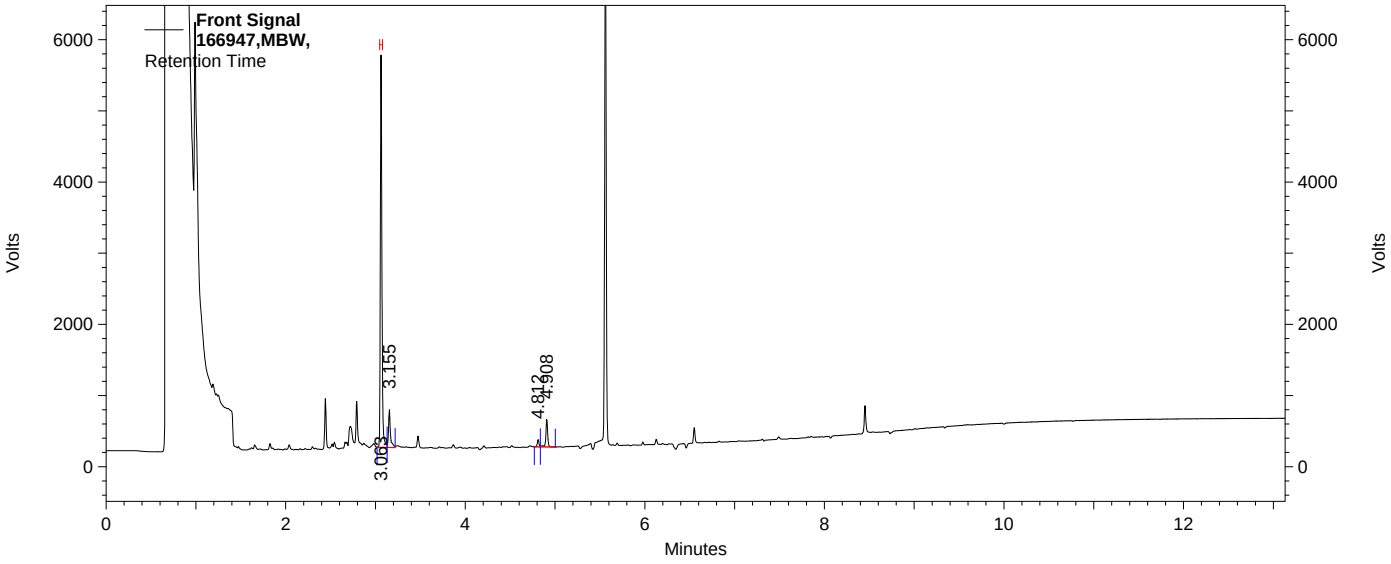

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.674 | 58671588 | 93.7839 |
| 2,4-D | 4.774 | 683969 | 0.0046 |
| Silvex | 5.471 | 866672 | 0.0012 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\007.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MBW,
**Acquired:** 11/22/2019 17:01:45
**Printed:** 11/25/2019 09:26:42

**Data Summary: {Data Description}**



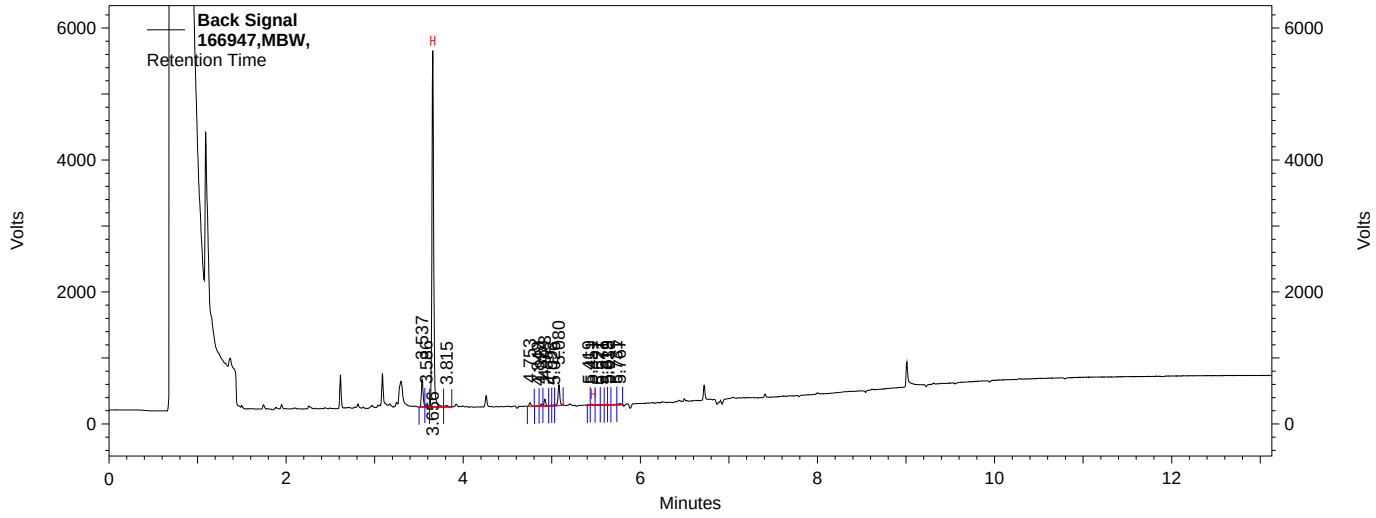

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.063 | 51243469 | 89.0195 |
| 2,4-D | | | 0.0000 BDL |
| Silvex | | | 0.0000 BDL |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\007.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MBW,
**Acquired:** 11/22/2019 17:01:45
**Printed:** 11/25/2019 09:26:42

**Data Summary: {Data Description}**



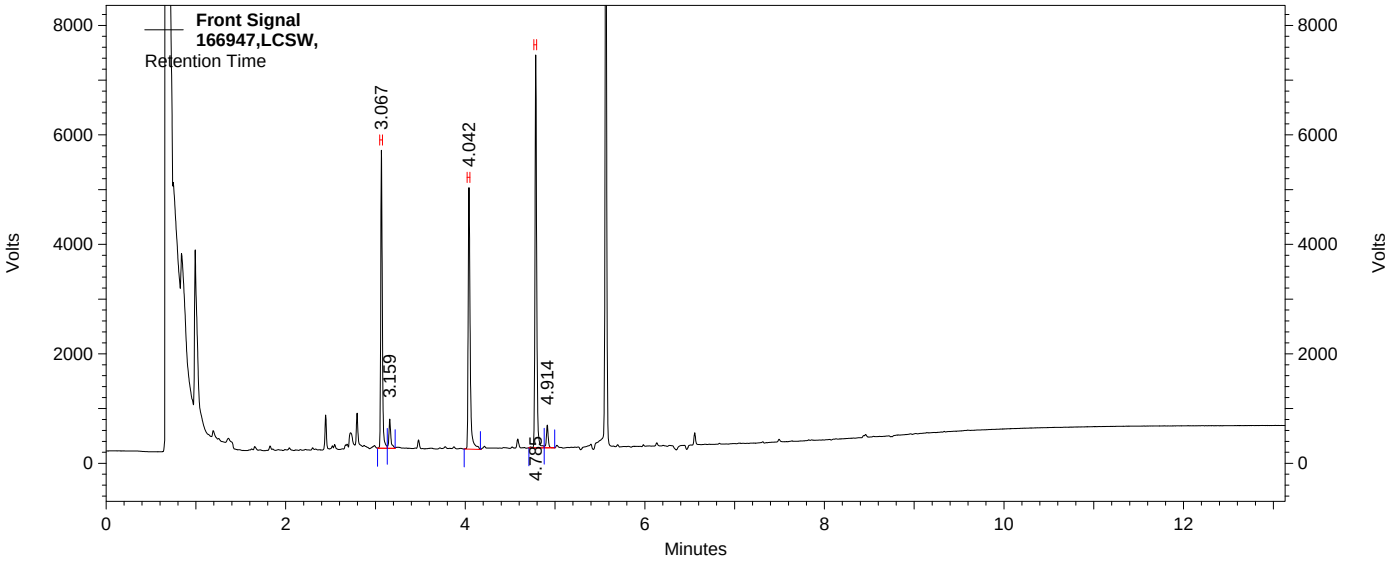

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.656 | 56955997 | 91.0029 |
| 2,4-D | | | 0.0000 BDL |
| Silvex | 5.451 | 180575 | 0.0003 |

# *Pesticide Analysis Report* *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\008.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,LCSW,
**Acquired:** 11/22/2019 17:18:41
**Printed:** 11/25/2019 09:26:46

**Data Summary: {Data Description}**



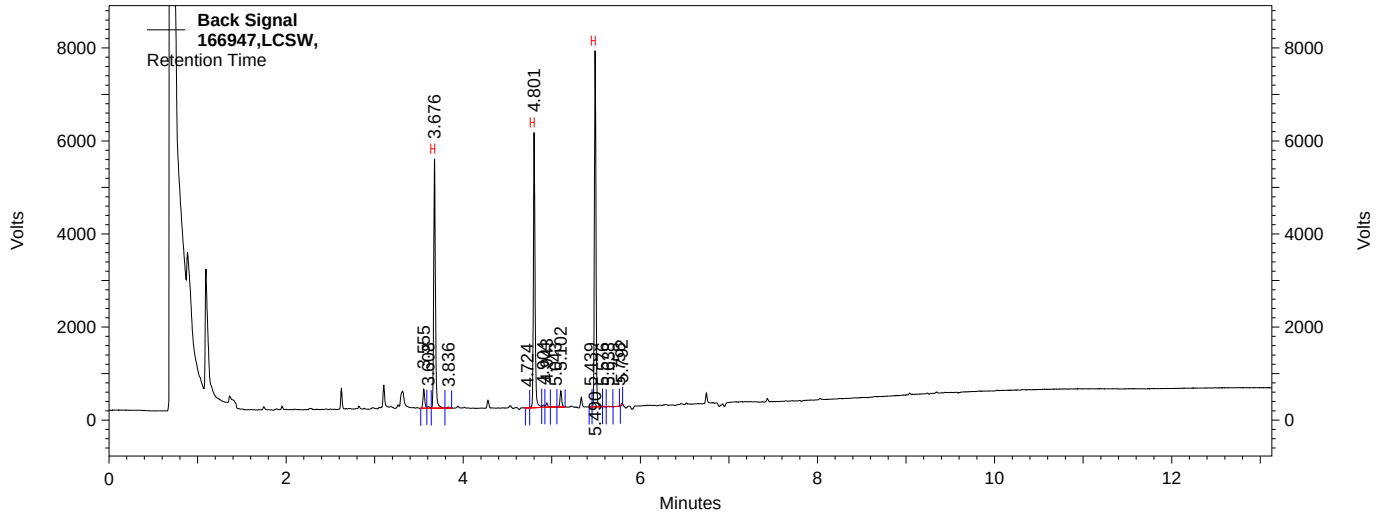

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.067 | 50470259 | 87.6540 |
| 2,4-D | 4.042 | 55436697 | 0.4628 |
| Silvex | 4.785 | 73027343 | 0.0950 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\008.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,LCSW,
**Acquired:** 11/22/2019 17:18:41
**Printed:** 11/25/2019 09:26:46

**Data Summary: {Data Description}**



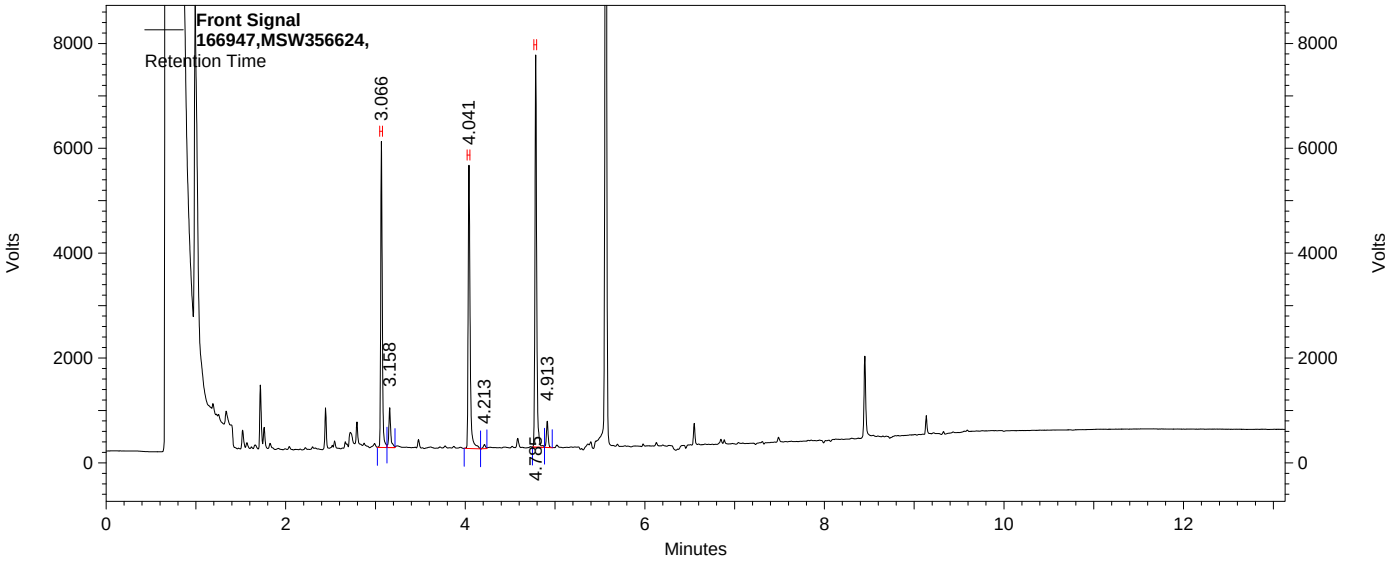

**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.676 | 56140015 | 89.6802 |
| 2,4-D | 4.801 | 58247066 | 0.4764 |
| Silvex | 5.490 | 70413742 | 0.0956 |

# ***Pesticide Analysis Report*** *(Channel A)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\012.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MSW356624,
**Acquired:** 11/22/2019 18:26:01
**Printed:** 11/25/2019 09:27:03

**Data Summary: {Data Description}**



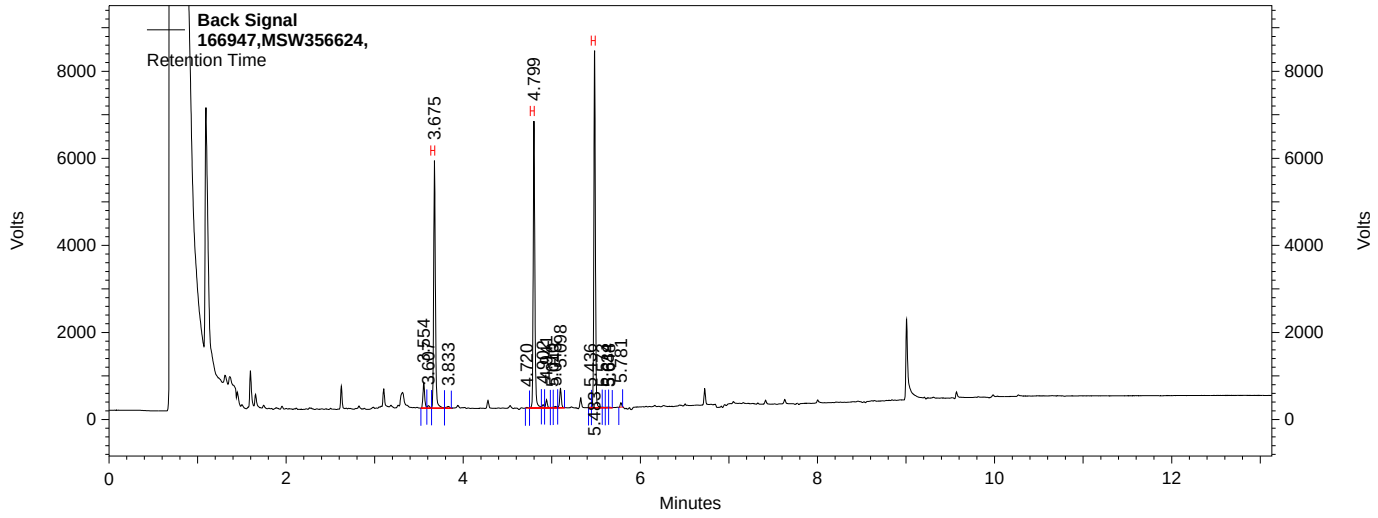

**Front Signal Results**

| *Component* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.066 | 53792390 | 93.5208 |
| 2,4-D | 4.041 | 61887615 | 0.5171 |
| Silvex | 4.785 | 77022029 | 0.1002 |

# *Pesticide Analysis Report* *(Channel B)*

**Data File:** C:\Instarch\Semi6\Data\112219hrb\012.dat
**Method:** C:\Instarch\Semi6\Methods\Herb\110719hrbic\112219hrb.met
**User:** JJY
**Sample ID:** 166947,MSW356624,
**Acquired:** 11/22/2019 18:26:01
**Printed:** 11/25/2019 09:27:03

**Data Summary: {Data Description}**




**Back Signal Results**

| *Name* | *Retention Time* | *Area Counts* | *Concentration (ug/ml)* |
|---|---|---|---|
| SURRDCAA | 3.675 | 59965838 | 95.8818 |
| 2,4-D | 4.799 | 65047184 | 0.5321 |
| Silvex | 5.483 | 74133361 | 0.1006 |

# PESTICIDE/HERBICIDE
# LOGBOOK
# DOCUMENTS

# S PEST Analytical Run
# 166876 on 11/21/2019

Date Analyzed: _____ JJY Date Reviewed: _____

Date Entered: _____ 12/03/19 Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356218 | | 11/07/2019 | 1030 | | | HDR, INC | LONGHORN | PESTICIDES QSM TCLP | | M | **4** | |
| | | 46ADPT-TCLP | | | | | | | | 74635 | | | |
| 149521 | 356624 | | 11/07/2019 | 1700 | | | MAXXAM ANALYTICS | USAFA | PESTICIDES QSM TCLP | | M | **4** | |
| | | ACADM-WW-001 | | | | | | | | 74635 | | | |
| 149521 | 356626 | | 11/07/2019 | 1700 | | | MAXXAM ANALYTICS | USAFA | PESTICIDES QSM TCLP | | M | **4** | |
| | | ACADM-WS-001 | | | | | | | | 74635 | | | |
| | 360323 | | | | | | | | PESTICIDES QSM TCLP | | | | |
| | | | | | MBW | | | | | 74635 | | | |
| | 360324 | | | | | | | | PESTICIDES QSM TCLP | | | | |
| | | | | | LCSW | | | | | 74635 | | | |
| | 360326 | | 11/07/2019 | 1700 | | | | | PESTICIDES QSM TCLP | | | | |
| | | ACADM-WW-001 | | | MSW | 356624 | | | | 74635 | | | |

**6** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# PREP WORKSHEET
## on 11/21/2019

Prep Batch **74,635** Date Prepped: 11/20/2019 Prepped By AJZ

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 360323 | MBW | | PESTICIDES QSM TCLP | LIQUID | 10 | | 0.10 | | |
| | 360324 | LCSW | | PESTICIDES QSM TCLP | LIQUID | 10 | | 0.10 | | |
| 149511 | 356218 | | | PESTICIDES QSM TCLP | TCLP | 10 | | 0.10 | 4 | |
| 149521 | 356624 | | | PESTICIDES QSM TCLP | TCLP | 10 | | 0.10 | 4 | |
| | 356626 | | | PESTICIDES QSM TCLP | TCLP | 10 | | 0.10 | 4 | |
| | 360326 | MSW | 356624 | PESTICIDES QSM TCLP | TCLP | 10 | | 0.10 | | |

Notes:_____

FORM#: FSV2,4-02
Rev. #: 1.1
Effective Date:05/06/16

# Pesticides/PCB Extraction Bench Sheet

(SOP Reference # SV002 & SV004)

3510=WATER
3545=PFE or 3546=Microwave >>
(PFE=Pressurized Fluid Extraction)

| | |
|---|---|
| **Prep Batch #:** | 74635 |
| **Prep Method:** | 3510/8081 |
| **Analyst:** | AJZ |
| **Date:** | 11/20/2019 |
| **Start Time:** | 09:00 |
| **End Date:** | 11/20/2019 |
| **End Time:** | 14:45 |

Analysis Methods
8081 = Pesticides
8082 = PCBs

Matrix: TCLP
Balance Used: NA
Ave MW Temp (°C): NA

**Reagent Lots>>>**

| | |
|---|---|
| $NA_2SO_4$ | MISC0670 |
| Diatomaceous Earth | NA |
| Dionex Solution | NA |
| Methylene Chloride | DX645 |
| Acetone | NA |
| Hexane | DT601 |
| $H_2SO_4$ | NA |

Concentration By: JLH
Concentration Date: 11/20/2019

| Microwave Cell # | Sample ID | Comments | (Solids) Sample Weight (g) | (Liquids) Sample Volume (L) | Final Volume (ml) | pH Adj. 5-9 (Yes/No) |
|---|---|---|---|---|---|---|
| | 360323 | MB | | 0.10 | 10 | Y |
| | 360324 | LCS | | 0.10 | 10 | Y |
| | 356218 | | | 0.10 | 10 | Y |
| | 356624 | EXTREMELY EMULSIFIED | | 0.10 | 10 | Y |
| | 356626 | | | 0.10 | 10 | Y |
| | SBLANK 3022 | | | 0.10 | 10 | Y |
| | VBLANK 3022 | | | 0.10 | 10 | Y |
| | T/C LCSW | | | 0.10 | 10 | Y |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
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| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | | | | | 10 | |
| | 360326 | (MS) Parent Sample | | 0.10 | 10 | Y |
| | | (MSD) 356624 | | | 10 | |

MB=Method Blank, LCS=Laboratory Control Sample, MS=Matrix Spike, MSD=Matrix Spike Duplicate, Tox=Toxaphene & Chlor=Technical chlordane

MS/MSD/ LCS Spike Amount (ml): 0.5
Spike Concentration (ug/mL): 0.8
Spike Reference #: PP6062

Surrogate Spike Amount (ml): 0.5
Surrogate Spike Conc. (ug/mL): 0.5
Surrogate Spike Reference #: PP6086

Tox/Chlor Spike Amount (ml): 0.5
Tox/Chlor Spike Conc. (ug/mL): 5

Tox/Chlor Spike Reference: PP6072

Relinquished to: JJY
Date: 11/20/2019

Reviewed By: JJY
Date: 11/21/2019

Form #: FSV14-02, 25-01, 26-01, 28-01
Rev #: 0
Effective: 04/09/2018

# Semi-Volatiles Sample Cleanup Record Sheet

**FSV14-02, FSV25-01, FSV26-01, FSV28-01**

**Prep Batch Number(s):** 74635

## GPC

| | |
|---|---|
| Cleanup Performed (Y/N): | N |
| Date: | |
| Time: | |
| Analyst Initials: | |
| $MeCl_2$ Lot: | |

## Florisil

| | |
|---|---|
| Cleanup Performed (Y/N): | N |
| Date: | |
| Time: | |
| Analyst Initials: | |
| Cartridge I.D. Number: | |
| Hexane Lot: | |
| Acetone Lot: | |

## Acid

| | |
|---|---|
| Cleanup Performed (Y/N): | N |
| Date: | |
| Time: | |
| Analyst Initials: | |
| $H_2SO_4$ Lot: | |
| Number of treatments: | |

## Sulfur

| | |
|---|---|
| Cleanup Performed (Y/N): | Y |
| Date: | 11/21/2019 |
| Time: | 16:00 |
| Analyst Initials: | JJY |
| Copper Lot: | 910140-BI |

## Comments:

CT Laboratories
Organic Laboratory Section

FORM #: FSV2-01
Rev. #: 1.0
Effective Date: 05/06/2014

# 8081 Pesticide Analysis Data Review Checklist

| | |
|---|---|
| **Analytical Run #: 166876** | **Independent Reviewer: AJZ** |
| **Sequence Date: 11/21/2019** | **Date of Review: 11/22/2019** |
| **Analyst/Data Interpreter: JJY** | **Approval: Yes** |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| Requirements: | Acceptance Criteria | Analyst Review | | Independent Review | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **1. INITIAL CALIBRATION (ICAL)** | | | | | | |
| a. Was the Pesticide initial calibration performed using a minimum of five varying standard concentration levels on two dissimilar columns? | Lowest standard at or near MRL | X | | X | | |
| b. Was there initial calibration performed using a minimum of five varying standard concentration levels for Toxaphene and tech-Chlordane. | | X | | X | | |
| c. Is the variation between calibration response factors for all concentration levels <20% RSD, is r >.995, or $r^2$ > 0.990 for the regression line | RSD<20%, $r^2$>0.990, or r>0.990 | X | | X | | |
| d. Was each ICAL uniquely identified (i.e. Standard Number)? | | X | | X | | |
| e. Was an initial calibration blank (ICB) analyzed? | | X | | X | | |
| f. Was there an Evaluation standard injected prior to initial calibration? | Breakdown ≤15% | X | | X | | |
| **2. INITIAL CALIBRATION VERIFICATION (ICV)** | | | | | | |
| a. Were there a second source ICVs for all target analytes analyzed after the initial calibration and prior to analysis of any samples? | | X | | X | | |
| b. Were the recoveries for the ICVs within program limits? | Second source | X | | X | | |
| c. Was the ICVs uniquely identified (i.e. Standard Number)? | %Recovery | X | | X | | |
| **3. CONTINUING CALIBRATION VERIFICATION (CCV)** | | | | | | |
| a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 20 samples (which ever comes first) and at the end of the analytical run. | | X | | X | | |
| b. Were there a CCV for Toxaphene and tech-Chlordane at the beginning or at the end of the analytical sequence? | | X | | X | | |
| c. Were the recoveries for the CCVs within program limits? | | X | | X | | |
| d. Was each CCV uniquely identified (i.e. Standard Number)? | %Recovery | X | | X | | |

**Additional Comments:**

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CT Laboratories
Organic Laboratory Section
**Analytical Run #: 166876**

FORM #: FSV2-01
Rev. #: 1.0
Effective Date: 05/06/2014

## 8081 Pesticide Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **4. BLANKS** | | | | | | |
| a. Was method blank (MB) analyzed prior to the analysis of samples? | | x | | x | | |
| b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount? | In-house limits or client specified limits | x | | x | | |
| c. Was a MB prepped and analyzed at a frequency of one per Prep Batch? | Batch <20 samples | x | | x | | |
| **5. LABORATORY CONTROL SAMPLE (LCS)** | | | | | | |
| a. Was a LCS analyzed prior to the analysis of samples? | | x | | x | | |
| b. Was there a Toxaphene and tech-Chlordane LCS preformed | Batch <20 samples | | x | | x | Endrin high recovery. "Q" in samples. |
| c. Were the LCS recoveries in each LCS within the acceptance criteria? | In-house limits or client specified limits | x | | x | | |
| **6. MATRIX SPIKES** | | | | | | |
| a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | x | | x | | |
| b. Were MS recoveries in each MS within the acceptance criteria? | In-house limits or client specified limits | | x | | x | 5 low recoveries. "M" parent. |
| **7. LABORATORY CONTROL SPIKE / MATRIX SPIKE DUPLICATE** | | | | | | |
| a. Was a duplicate matrix spike or laboratory control spike sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | | x | | x | MS only. TCLP method. |
| b. Were MSD or LCSD recoveries within the acceptance criteria? | In-house limits or client specified limits | na | | na | | |
| c. Is the relative percent difference (RPD) between a matrix spike (MS) and its' duplicate (MSD) or laboratory control spike (LCS) and its' duplicate (LCSD) within the acceptance criteria? | In-house limits or client specified limits | na | | na | | |

**Additional Comments:**

CT Laboratories
Organic Laboratory Section
**Analytical Run #: 166876**

FORM #: FSV2-01
Rev. #: 1.0
Effective Date: 05/06/2014

## 8081 Pesticide Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **8. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)** | | | | | | |
| a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | X | | X | | |
| b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria? | | | X | | X | See below. |
| c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? | | X | | X | | |
| d. Were all pH checks and adjustments recorded on the sample prep bench sheet? | | X | | X | | |
| e. Were all samples extracted within holding times and analyzed within 40 days of extracting? | Analysis within 40 days of extraction | X | | X | | |
| f. Did the samples require additional cleanup steps? (i.e. florisil, GPC, and sulfur treatment) | Florisil, GPC, and/or Sulfur Treatments | X | | X | | Sulfur. |
| g. Was there a hexane injection performed prior to sample analysis? | | X | | X | | |
| h. Was there a priming standard injected prior to sample analysis? | | X | | X | | |
| i. Was there an Eval standard injected prior to sample analysis and every twelve hours? | Breakdown ≤15% | X | | X | | |
| **9. RECORDS AND REPORTING** | | | | | | |
| a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transferred to PDF format? | | X | | X | | |
| b. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed? | | X | | X | | |
| c. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data? | | X | | X | | |

**Additional Comments:**

Sample 356624 had low recovery of surrogate DCB. Confirmed in MS. "S".

# *Summary Report*

**Instrument I...** **Semi 1 (Offline)**
**Data Path:** **C:\Instarch\Semi1\Sequence\111419pstic.seq**
**User ID:** **JJY**
**Printed Date:** **11/14/2019 16:15:48**

JJY
12/03/19

| Run Number | Sample ID | Data Filename | Method Filename | Analysis Date | Data Description |
|---|---|---|---|---|---|
| 1 | EVAL PP6073 | 001.dat | eval.met | 11/14/2019 16:01:04 | |
| 2 | TC PRIME PP6023 1:10 | 002.dat | 111419tcic.met | 11/14/2019 16:17:13 | |
| 3 | Hex | 003.dat | 111419tcic.met | 11/14/2019 16:33:26 | |
| 4 | TC ICAL 1 PP6033 | 004.dat | 111419tcic.met | 11/14/2019 16:49:42 | |
| 5 | TC ICAL 2 PP6034 | 005.dat | 111419tcic.met | 11/14/2019 17:05:56 | |
| 6 | TC ICAL 3 PP6035 | 006.dat | 111419tcic.met | 11/14/2019 17:22:10 | |
| 7 | TC ICAL 4 PP6036 | 007.dat | 111419tcic.met | 11/14/2019 17:38:32 | |
| 8 | TC ICAL 5 PP6037 | 008.dat | 111419tcic.met | 11/14/2019 17:54:49 | |
| 9 | not used | 009.dat | 111419tcic.met | 11/14/2019 18:11:11 | |
| 10 | TC ICV PP6039 | 010.dat | 111419tcic.met | 11/14/2019 18:27:30 | |
| 11 | PEST PRIME PP6021 1:20 | 011.dat | 111419pstic.met | 11/14/2019 18:43:48 | |
| 12 | Hex | 012.dat | 111419pstic.met | 11/14/2019 19:00:07 | |
| 13 | PEST ICAL 1 PP6024 | 013.dat | 111419pstic.met | 11/14/2019 19:16:27 | |
| 14 | PEST ICAL 2 PP6025 | 014.dat | 111419pstic.met | 11/14/2019 19:32:50 | |
| 15 | PEST ICAL 3 PP6026 | 015.dat | 111419pstic.met | 11/14/2019 19:49:14 | |
| 16 | PEST ICAL 4 PP6027 | 016.dat | 111419pstic.met | 11/14/2019 20:05:34 | |
| 17 | PEST ICAL 5 PP6028 | 017.dat | 111419pstic.met | 11/14/2019 20:21:47 | |
| 18 | PEST ICAL 6 PP6029 | 018.dat | 111419pstic.met | 11/14/2019 20:38:07 | |
| 19 | PEST ICAL 7 PP6030 | 019.dat | 111419pstic.met | 11/14/2019 20:54:23 | |
| 20 | PEST ICV 1 PP6031 | 020.dat | 111419pstic.met | 11/14/2019 21:10:40 | |
| 21 | PEST ICV 2 PP6032 | 021.dat | 111419pstic.met | 11/14/2019 21:26:56 | |
| 22 | Hex | 022.dat | 111419pstic.met | 11/14/2019 21:43:20 | |
| 23 | PEST CCV PP6040 | 023.dat | 111419pstic.met | 11/14/2019 21:59:35 | |
| 24 | TC CCV PP6041 | 024.dat | 111419tcic.met | 11/14/2019 22:15:57 | |
| 25 | Hex | 025.dat | 111419pstic.met | 11/14/2019 22:32:16 | |
| 26 | 166576,MBW, | 026.dat | 111419pstic.met | 11/14/2019 22:48:38 | |
| 27 | 166576,LCSW, | 027.dat | 111419pstic.met | 11/14/2019 23:04:58 | |
| 28 | 166576,LCSW TC | 028.dat | 111419tcic.met | 11/14/2019 23:21:16 | |
| 29 | Hex | 029.dat | 111419pstic.met | 11/14/2019 23:37:39 | |
| 30 | 166576,354346, | 030.dat | 111419pstic.met | 11/14/2019 23:53:59 | |
| 31 | 166576,354347, | 031.dat | 111419pstic.met | 11/15/2019 00:10:13 | |
| 32 | 166576,354348, | 032.dat | 111419pstic.met | 11/15/2019 00:26:25 | |
| 33 | 166576,MSW354348, | 033.dat | 111419pstic.met | 11/15/2019 00:42:41 | |
| 34 | 166576,MSDW354348, | 034.dat | 111419pstic.met | 11/15/2019 00:58:49 | |
| 35 | Hex | 035.dat | 111419pstic.met | 11/15/2019 01:15:04 | |
| 36 | PEST CCV PP6040 | 036.dat | 111419pstic.met | 11/15/2019 01:31:24 | |
| 37 | TC CCV PP6041 | 037.dat | 111419tcic.met | 11/15/2019 01:47:40 | |
| 38 | Hex | 038.dat | 111419pstic.met | 11/15/2019 02:03:56 | |

# *Summary Report*

JJY
12/03/19

**Instrument I...** **Semi 1 (Offline)**
**Data Path:** **C:\Instarch\Semi1\Sequence\112119pst.seq**
**User ID:** **JJY**
**Printed Date:** **11/22/2019 10:11:39**

| Run Number | Sample ID | Data Filename | Method Filename | Analysis Date | Data Description |
|---|---|---|---|---|---|
| 1 | EVAL PP6073 | 001.dat | eval.met | 11/21/2019 17:03:23 | |
| 2 | PEST PRIME PP6021 1:20 | 002.dat | 112119pst.met | 11/21/2019 17:19:30 | |
| 3 | Hex | 003.dat | 112119pst.met | 11/21/2019 17:35:44 | |
| 4 | PEST CCV PP6040 | 004.dat | 112119pst.met | 11/21/2019 17:51:59 | |
| 5 | TC CCV PP6041 | 005.dat | 112119tcic.met | 11/21/2019 18:08:14 | |
| 6 | Hex | 006.dat | 112119pst.met | 11/21/2019 18:24:30 | |
| 7 | 166876,MBTS, | 007.dat | 112119pst.met | 11/21/2019 18:40:49 | |
| 8 | 166876,MBTV, | 008.dat | 112119pst.met | 11/21/2019 18:57:06 | |
| 9 | 166876,MBW, | 009.dat | 112119pst.met | 11/21/2019 19:13:24 | |
| 10 | 166876,LCSW, | 010.dat | 112119pst.met | 11/21/2019 19:29:41 | |
| 11 | 166876,LCSW TC | 011.dat | 112119tcic.met | 11/21/2019 19:46:02 | |
| 12 | Hex | 012.dat | 112119pst.met | 11/21/2019 20:02:25 | |
| 13 | 166876,356218,10 | 013.dat | 112119pst.met | 11/21/2019 20:18:48 | |
| 14 | Hex | 014.dat | 112119pst.met | 11/21/2019 20:35:10 | |
| 15 | 166876,356626, | 015.dat | 112119pst.met | 11/21/2019 20:51:31 | |
| 16 | 166876,356624, | 016.dat | 112119pst.met | 11/21/2019 21:07:46 | |
| 17 | 166876,MSW356624, | 017.dat | 112119pst.met | 11/21/2019 21:24:01 | |
| 18 | Hex | 018.dat | 112119pst.met | 11/21/2019 21:40:15 | |
| 19 | PEST CCV PP6040 | 019.dat | 112119pst.met | 11/21/2019 21:56:32 | |
| 20 | TC CCV PP6041 | 020.dat | 112119tcic.met | 11/21/2019 22:12:45 | |
| 21 | Hex | 021.dat | 112119pst.met | 11/21/2019 22:29:03 | |
| 22 | 166876,356218, | 022.dat | 112119pst.met | 11/21/2019 22:45:22 | |
| 23 | Hex | 023.dat | 112119pst.met | 11/21/2019 23:01:39 | |
| 24 | PEST CCV PP6040 | 024.dat | 112119pst.met | 11/21/2019 23:18:02 | |
| 25 | TC CCV PP6041 | 025.dat | 112119tcic.met | 11/21/2019 23:34:21 | |
| 26 | Hex | 026.dat | 112119pst.met | 11/21/2019 23:50:41 | |

**PEST-PCB-LOGBOOK-02**
SV Prep Logbook
*Logbook created: 09/21/17*
NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 56
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Page is not Witnessed
Project: Unassigned
Page Title: 073019

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6020 | Pest ICAL Stock | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4114 | 200 | ug/ml | 0.100 | 10.0 | 2.00 |
| S3940E | 200 | ug/ml | 0.0625 | 10.0 | 1.25 |
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6021 | Pest ICV Stock | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4115 | 200 | ug/ml | 0.100 | 10.0 | 2.00 |
| S3940E | 200 | ug/ml | 0.0625 | 10.0 | 1.25 |
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6022 | Tox/chlor Stock | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4110 | 1000 | ug/ml | 0.100 | 10.0 | 10.0 |
| S4112 | 1000 | ug/ml | 0.100 | 10.0 | 10.0 |
| S3940E | 200 | ug/ml | 0.030 | 10.0 | 0.60 |
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6023 | Tox/chlor ICV Stock | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4111 | 1000 | ug/ml | 0.100 | 10.0 | 10.0 |
| S4113 | 1000 | ug/ml | 0.100 | 10.0 | 10.0 |
| S3940E | 200 | ug/ml | 0.030 | 10.0 | 0.60 |
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| | Initial Calibration | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| | Pest Tox/chlor ICAL | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| PP6024 | PEST ICAL PT 1 | PP6020 | 2.0 | ug/ml | 0.005 | 10.0 | 0.001 |
| PP6025 | PEST ICAL PT 2 | PP6020 | 2.0 | ug/ml | 0.025 | 10.0 | 0.005 |
| PP6026 | PEST ICAL PT 3 | PP6020 | 2.0 | ug/ml | 0.050 | 10.0 | 0.010 |
| PP6027 | PEST ICAL PT 4 | PP6020 | 2.0 | ug/ml | 0.100 | 10.0 | 0.020 |
| PP6028 | PEST ICAL PT 5 | PP6020 | 2.0 | ug/ml | 0.200 | 10.0 | 0.040 |
| PP6029 | PEST ICAL PT 6 | PP6020 | 2.0 | ug/ml | 0.250 | 10.0 | 0.050 |
| PP6030 | PEST ICAL PT 7 | PP6020 | 2.0 | ug/ml | 0.350 | 10.0 | 0.070 |
| PP6031 | PEST ICV | PP6021 | 2.0 | ug/ml | 0.100 | 10.0 | 0.020 |
| PP6032 | PEST ICV 2 | PP6021 | 2.0 | ug/ml | 0.200 | 10.0 | 0.040 |
| PP6033 | TOX/CHLOR PT 1 | PP6022 | 10.0 | ug/ml | 0.030 | 10.0 | 0.030 |
| PP6034 | TOX/CHLOR PT 2 | PP6022 | 10.0 | ug/ml | 0.050 | 10.0 | 0.050 |
| PP6035 | TOX/CHLOR PT 3 | PP6022 | 10.0 | ug/ml | 0.100 | 10.0 | 0.100 |
| PP6036 | TOX/CHLOR PT 4 | PP6022 | 10.0 | ug/ml | 0.250 | 10.0 | 0.250 |
| PP6037 | TOX/CHLOR PT 5 | PP6022 | 10.0 | ug/ml | 0.400 | 10.0 | 0.400 |
| PP6038 | TOX/CHLOR PT 6 | PP6022 | 10.0 | ug/ml | 0.600 | 10.0 | 0.600 |
| PP6039 | TOX/CHLOR ICV | PP6023 | 10.0 | ug/ml | 0.250 | 10.0 | 0.250 |
| PP6040 | PEST CCV | PP6020 | 2.0 | ug/ml | 0.200 | 10.0 | 0.040 |
| PP6041 | TOX/CHLOR CCV | PP6022 | 10.0 | ug/ml | 0.250 | 10.0 | 0.250 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6042 | Pest Surrogates 2 ug/ml | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3940E | 200 | ug/ml | 0.100 | 10.0 | 2.0 |
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6043 | FM BP-6 Stock | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/08/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3323B | 100 | ug/ml | 1.00 | 10.0 | 10.0 |
| S3940E | 200 | ug/ml | 0.025 | 10.0 | 0.50 |
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| | Initial Calibration | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| | FM BP-6 ICAL | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/08/2020 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| PP6044 | FM BP-6 ICAL 1 | PP6043 | 10.0 | ug/ml | 0.010 | 10.0 | 0.01 |
| PP6045 | FM BP-6 ICAL 2 | PP6043 | 10.0 | ug/ml | 0.050 | 10.0 | 0.05 |
| PP6046 | FM BP-6 ICAL 3 | PP6043 | 10.0 | ug/ml | 0.100 | 10.0 | 0.10 |
| PP6047 | FM BP-6 ICAL 4 | PP6043 | 10.0 | ug/ml | 0.200 | 10.0 | 0.20 |
| PP6048 | FM BP-6 ICAL 5 | PP6043 | 10.0 | ug/ml | 0.400 | 10.0 | 0.40 |
| PP6049 | FM BP-6 ICAL 6 | PP6043 | 10.0 | ug/ml | 0.600 | 10.0 | 0.60 |
| PP6050 | FM BP-6 CCV | PP6043 | 10.0 | ug/ml | 0.200 | 10.0 | 0.20 |
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6051 | FM BP-6 ICV | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4128A | 100 | ug/ml | 0.020 | 10.0 | 0.20 |
| PP6042 | 2.0 | ug/ml | 0.050 | 10.0 | 0.01 |
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6052 | HBB ICAL Stock | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| PP6004 | 25 | ug/ml | 0.800 | 10.0 | 2.0 |
| S3940E | 200 | ug/ml | 0.0625 | 10.0 | 1.25 |
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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6053 | HBB ICV Stock | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4127 | 100 | ug/ml | 0.200 | 10.0 | 2.0 |
| S3940E | 200 | ug/ml | 0.0625 | 10.0 | 1.25 |
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| | Initial Calibration | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| | HBB ICAL | Hexane ChemPure lot DS721 | JJY | 07/30/2019 | 01/30/2020 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| PP6054 | HBB ICAL 1 | PP6052 | 2.0 | ug/ml | 0.005 | 10.0 | 0.001 |
| PP6055 | HBB ICAL 2 | PP6052 | 2.0 | ug/ml | 0.025 | 10.0 | 0.005 |
| PP6056 | HBB ICAL 3 | PP6052 | 2.0 | ug/ml | 0.050 | 10.0 | 0.010 |
| PP6057 | HBB ICAL 4 | PP6052 | 2.0 | ug/ml | 0.100 | 10.0 | 0.020 |
| PP6058 | HBB ICAL 5 | PP6052 | 2.0 | ug/ml | 0.200 | 10.0 | 0.040 |
| PP6059 | HBB ICAL 6 | PP6052 | 2.0 | ug/ml | 0.300 | 10.0 | 0.060 |
| PP6060 | HBB ICV | PP6053 | 2.0 | ug/ml | 0.100 | 10.0 | 0.020 |
| PP6061 | HBB CCV | PP6052 | 2.0 | ug/ml | 0.100 | 10.0 | 0.020 |
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CT Laboratories, LLC

**PEST-PCB-LOGBOOK-02**

SV Prep Logbook

*Logbook created: 09/21/17*

NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 57
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Author: azurfluh on: 8/14/2019 9:36:58 AM
Witness: jyoder on: 8/15/2019 1:13:02 PM
Project: Unassigned
Page Title: 081419

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6062 | Pesticide Spike | Acetone ChemPure Lot DR774 | AJZ | 08/14/2019 | 02/14/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4114 | 200 | ug/mL | 0.200 | 50.0 | 0.80 |
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CT Laboratories, LLC

**PEST-PCB-LOGBOOK-02**

SV Prep Logbook

*Logbook created: 09/21/17*

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Page is not Witnessed
Project: Unassigned
Page Title: 100719

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6072 | Tox/Chlor Spike | Acetone ChemPure Lot DR774 | AJZ | 10/07/2019 | 04/07/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4110 | 1000 | ug/mL | 0.250 | 50.0 | 5.0 |
| S4112 | 1000 | ug/mL | 0.250 | 50.0 | 5.0 |
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**PEST-PCB-LOGBOOK-02**

SV Prep Logbook

*Logbook created: 09/21/17*

NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 62
Page is Locked
Author: azurfluh on: 10/9/2019 10:55:54 AM
Page is not Witnessed
Project: Unassigned
Page Title: 100919

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6073 | Pest EVAL Solution | Hexane ChemPure Lot DT601 | AJZ | 10/09/2019 | 04/08/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4160 | 200 | ug/mL | 0.010 | 50.0 | 0.040 |
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**PEST-PCB-LOGBOOK-02**

SV Prep Logbook

*Logbook created: 09/21/17*

NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 65
Page is Unlocked
Page is not Witnessed
Project: Unassigned
Page Title: 111819

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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6084 | Pest/PCB Surrogate | Acetone ChemPure lot DU033-US | JJY | 11/18/2019 | 05/18/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3940C | 200 | ug/ml | 0.250 | 100 | 0.500 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6085 | Pest/PCB Surrogate | Acetone ChemPure lot DU033-US | JJY | 11/18/2019 | 05/18/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3940C | 200 | ug/ml | 0.250 | 100 | 0.500 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6086 | Pest/PCB Surrogate | Acetone ChemPure lot DU033-US | JJY | 11/18/2019 | 05/18/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3940C | 200 | ug/ml | 0.250 | 100 | 0.500 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6087 | Pest/PCB Surrogate | Acetone ChemPure lot DU033-US | JJY | 11/18/2019 | 05/18/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3940C | 200 | ug/ml | 0.250 | 100 | 0.500 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6088 | PCB Spike | Acetone ChemPure lot DU033-US | JJY | 11/18/2019 | 03/12/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3883D | 1000 | ug/ml | 0.500 | 50.0 | 10.0 |
| S3884D | 1000 | ug/ml | 0.500 | 50.0 | 10.0 |
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CT Laboratories, LLC

# S HERBICIDES TCLP Analytical Run
# 166947 on 11/22/2019

Date Analyzed: _____ JJY 12/03/19 Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356218 | | 11/07/2019 | 1030 | | | HDR, INC | LONGHORN | HERBICIDES TCLP QSM 5 | | M | **4** | |
| | | 46ADPT-TCLP | | | | | | | | 74634 | | | |
| 149521 | 356624 | | 11/07/2019 | 1700 | | | MAXXAM ANALYTICS | USAFA | HERBICIDES TCLP QSM 5 | | M | **4** | |
| | | ACADM-WW-001 | | | | | | | | 74634 | | | |
| 149521 | 356626 | | 11/07/2019 | 1700 | | | MAXXAM ANALYTICS | USAFA | HERBICIDES TCLP QSM 5 | | M | **4** | |
| | | ACADM-WS-001 | | | | | | | | 74634 | | | |
| | 360319 | | | | | | | | HERBICIDES TCLP QSM 5 | | | | |
| | | | | | MBW | | | | | 74634 | | | |
| | 360320 | | | | | | | | HERBICIDES TCLP QSM 5 | | | | |
| | | | | | LCSW | | | | | 74634 | | | |
| | 360327 | | 11/07/2019 | 1700 | | | | | HERBICIDES TCLP QSM 5 | | | | |
| | | ACADM-WW-001 | | | MSW | 356624 | | | | 74634 | | | |

**6** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# PREP WORKSHEET
## on 11/22/2019

Prep Batch **74,634** Date Prepped: 01/01/1900 Prepped By JLH

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 360319 | MBW | | HERBICIDES TCLP QSM | LIQUID | 10 | | 0.10 | | |
| | 360320 | LCSW | | HERBICIDES TCLP QSM | LIQUID | 10 | | 0.10 | | |
| 149511 | 356218 | | | HERBICIDES TCLP QSM | TCLP | 10 | | 0.10 | 4 | |
| 149521 | 356624 | | | HERBICIDES TCLP QSM | TCLP | 10 | | 0.10 | 4 | |
| | 356626 | | | HERBICIDES TCLP QSM | TCLP | 10 | | 0.10 | 4 | |
| | 360327 | MSW | 356624 | HERBICIDES TCLP QSM | TCLP | 10 | | 0.10 | | |

Notes:_____

FORM#: FSV29-01
Rev. #: 00
Effective Date: 05/24/2016

# Herbicide Extraction Bench Sheet

(SOP Reference # SV029)

| | |
|---|---|
| **Prep Batch #:** | 74634 |
| **Analyst:** | JLH |
| **Start Date:** | 11/22/2019 |
| **Start Time:** | 08:00 |
| **End Date:** | 11/22/2019 |
| **End Time:** | 14:45 |

Prep/Analysis Method
EPA 8151A

Matrix: TCLP
TCLP Batch #: 3022

**Reagent Lots>>>**
Acidified $Na_2SO_4$: MISC0517
2% $Na_2SO_4$ solution: MISC0566
Ether: 188071
Hexane: DT601
$BF_3$-methanol: A0379837
$H_2SO_4$: MISC0634

Concentrated by: JLH
Concentration Date: 11/22/2019

Derivatized by: JLH
Derivatization Date: 11/22/2019

| Sample ID | Comments | | (Liquids) Sample Volume (L) | Final Volume (ml) | pH Adj. <2 (Yes/No) |
|---|---|---|---|---|---|
| 360319 | (MB) | | 0.10 | 10 | Y |
| 360320 | (LCS) | | 0.10 | 10 | Y |
| 3022 | (SB) | | 0.10 | 10 | Y |
| 3022 | (VB) | | 0.10 | 10 | Y |
| 356218 | | | 0.10 | 10 | Y |
| 356624 | | | 0.10 | 10 | Y |
| 356626 | | | 0.10 | 10 | Y |
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| 360327 | (MS) | | 0.10 | 10 | Y |
| | (MS) | 356624 | | | |

MB=method blank, LCS=laboratory control sample, SB=solution blank, VB=vessel blank, MS=matrix spike

Spike Amount (ml): 1
Spike Concentration (ug/mL): 5.0/1.0
Spike Reference #: PP6075

Surrogate Spike Amount (ml): 1
Surrogate Spike Conc. (ug/mL): 5
Surrogate Spike Reference #: PP6074

Relinquished to: JJY
Date: 11/22/2019

Reviewed By: JJY
Date: 11/22/2019

FORM #: FSV29-02
Rev. #: 00
Effective Date: 05/24/16

# FSV29-02

## 8151A Herbicide Analysis Data Review Checklist

| | |
|---|---|
| **Analytical Run #: 166947** | **Independent Reviewer: AJZ** |
| **Sequence Date: 11/22/2019** | **Date of Review: 11/25/2019** |
| **Analyst/Data Interpreter: JJY** | **Approval: Yes** |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| Requirements: | Acceptance Criteria | Analyst Review | | Independent Review | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **1. INITIAL CALIBRATION (ICAL)** | | | | | | |
| a. Was the initial calibration performed using a minimum of five varying standard concentration levels on two dissimilar columns? | Lowest standard at or near MRL | X | | X | | |
| b. Is the variation between calibration response factors for all concentration levels <20% RSD, is $r^2$ >.990, or r > 0.990 for the regression line? | RSD<20%, $r^2$>0.990, or r>0.990 | X | | X | | |
| c. Was each ICAL uniquely identified (i.e. Standard Number)? | | X | | X | | |
| d. Was an initial calibration blank (ICB, hexane) analyzed? | | X | | X | | |
| **2. INITIAL CALIBRATION VERIFICATION (ICV)** | | | | | | |
| a. Was a second source ICV analyzed after the initial calibration and prior to analysis of any samples? | second lot or manufacturer | X | | X | | |
| b. Were the recoveries for the ICVs within program limits? | % recovery | X | | X | | |
| c. Was the ICVs uniquely identified (i.e. Standard Number)? | | X | | X | | |
| **3. CONTINUING CALIBRATION VERIFICATION (CCV)** | | | | | | |
| a. Were CCVs analyzed at the beginning of the sequence, after every 12 hours or every 10 samples (which ever comes first) and at the end of the analytical run? | | X | | X | | |
| b. Were the recoveries for the CCVs within program limits? | % recovery | X | | X | | |
| c. Was each CCV uniquely identified (i.e. Standard Number)? | | X | | X | | |

**Additional Comments:**

**Analytical Run #: 166947**

## FSV29-02

## 8151A Herbicide Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **4. BLANKS** | | | | | | |
| a. Was the method blank (MB) analyzed prior to the analysis of samples? | | X | | X | | |
| b. Was the MB result less than ½ the reporting limit (RL) or 5% of the sample amount? | In-house limits or client specified limits | X | | X | | |
| c. Was a MB prepped and analyzed at a frequency of one per Prep Batch? | Batch <20 samples | X | | X | | |
| **5. LABORATORY CONTROL SAMPLE (LCS)** | | | | | | |
| a. Was a LCS analyzed at a frequencey of one per Prep Batch? | Batch <20 samples | X | | X | | |
| b. Were the LCS recoveries in each LCS within the acceptance criteria? | In-house limits or client, program, or project-specified limits | X | | X | | |
| **6. MATRIX SPIKES** | | | | | | |
| a. Was a matrix spiked (MS) sample analyzed at a frequency one per Prep Batch? | Batch <20 samples | X | | X | | |
| b. Were MS recoveries in each MS within the acceptance criteria? | In-house limits or client, program, or project-specified limits | X | | X | | |

**Additional Comments:**

**Analytical Run #: 166947**

# FSV29-02

## 8151A Herbicide Analysis Data Review Checklist

| Requirements: | Acceptance Criteria | Analyst | | Independent | | Comments (indicate reference to an attachment if necessary) |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | |
| **7. SAMPLES (INCLUDING BLANKS, STANDARDS, AND QC SAMPLES)** | | | | | | |
| a. Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV? | | X | | X | | |
| b. Are surrogate recoveries for all samples, blanks, standards, and QC samples within acceptance criteria? | In-house limits or client, program, or project-specified limits | X | | X | | |
| c. Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? | | X | | X | | |
| d. Were all samples extracted within holding times and analyzed within 40 days of extracting? | Analysis within 40 days of extraction | X | | X | | |
| e. Was there a hexane injection performed prior to sample analysis? | | X | | X | | |
| **9. RECORDS AND REPORTING** | | | | | | |
| a. Is the Analytical Run, Prep Batch and Extraction sheets, Summary sheets, Sequence file, analytical data, and method transfered to PDF format? | | X | | X | | |
| b. Are all manually integrated chromatograms stamped with initials and date? | | X | | X | | |
| c. Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier in LIMS and, if needed, a NCR completed? | | X | | X | | |
| d. Do all values, dilution factors and qualifiers listed on the raw reports match the LIMS data? | | X | | X | | |
| e. Is the ICAL method referenced on the Raw Data? | | X | | X | | |

**Additional Comments:**

# *Summary Report*

**Instrument I...** **Semi 6**
**Data Path:** **C:\Instarch\Semi6\Sequence\110719hrbic.seq**
**User ID:** **AJZ**
**Printed Date:** **Nov 08, 2019 10:42:14**

JJY
11/21/19

| Run Number | Sample ID | Data Filename | Method Filename | Analysis Date | Data Description |
|---|---|---|---|---|---|
| 1 | Hex | 001.dat | 110719hrbic.met | Nov 07, 2019 13:31:18 | |
| 2 | AH PRIME PP5887 1:10 | 002.dat | 110719hrbic.met | Nov 07, 2019 13:48:02 | |
| 3 | Hex | 003.dat | 110719hrbic.met | Nov 07, 2019 14:04:47 | |
| 4 | AH ICAL 1 PP 6076 | 004.dat | 110719hrbic.met | Nov 07, 2019 14:21:31 | |
| 5 | AH ICAL 2 PP 6077 | 005.dat | 110719hrbic.met | Nov 07, 2019 14:38:21 | |
| 6 | AH ICAL 3 PP 6078 | 006.dat | 110719hrbic.met | Nov 07, 2019 14:55:09 | |
| 7 | AH ICAL 4 PP 6079 | 007.dat | 110719hrbic.met | Nov 07, 2019 15:11:54 | |
| 8 | AH ICAL 5 PP 6080 | 008.dat | 110719hrbic.met | Nov 07, 2019 15:28:43 | |
| 9 | AH ICAL 6 PP 6081 | 009.dat | 110719hrbic.met | Nov 07, 2019 15:45:37 | |
| 10 | AH ICV PP 6082 | 010.dat | 110719hrbic.met | Nov 07, 2019 16:02:29 | |
| 11 | AH CCV PP 6083 | 011.dat | 110719hrbic.met | Nov 07, 2019 16:19:20 | |
| 12 | Hex | 012.dat | 110719hrbic.met | Nov 07, 2019 16:36:09 | |
| 13 | 166359,MBW, | 013.dat | 110719hrbic.met | Nov 07, 2019 16:52:57 | |
| 14 | 166359,LCSW, | 014.dat | 110719hrbic.met | Nov 07, 2019 17:09:45 | |
| 15 | 166359,336423,10 | 015.dat | 110719hrbic.met | Nov 07, 2019 17:26:30 | |
| 16 | 166359,336423, | 016.dat | 110719hrbic.met | Nov 07, 2019 17:43:12 | M.I. Index Key Reason #... |
| 17 | 166359,LCSDW, | 017.dat | 110719hrbic.met | Nov 07, 2019 18:00:02 | |
| 18 | Hex | 018.dat | 110719hrbic.met | Nov 07, 2019 18:16:50 | |
| 19 | AH CCV PP 6083 | 019.dat | 110719hrbic.met | Nov 07, 2019 18:33:43 | |
| 20 | Hex | 020.dat | 110719hrbic.met | Nov 07, 2019 18:50:32 | |
| 21 | 166358,MBW, | 021.dat | 110719hrbic.met | Nov 07, 2019 19:07:26 | |
| 22 | 166358,LCSW, | 022.dat | 110719hrbic.met | Nov 07, 2019 19:24:18 | |
| 23 | 166358,348125,10 | 023.dat | 110719hrbic.met | Nov 07, 2019 19:41:07 | |
| 24 | 166358,MSW348125,10 | 024.dat | 110719hrbic.met | Nov 07, 2019 19:57:54 | M.I. Index Key Reason #... |
| 25 | Hex | 025.dat | 110719hrbic.met | Nov 07, 2019 20:14:44 | |
| 26 | AH CCV PP 6083 | 026.dat | 110719hrbic.met | Nov 07, 2019 20:31:30 | |
| 27 | Hex | 027.dat | 110719hrbic.met | Nov 07, 2019 20:48:17 | |
| 28 | 166357,MBTS1, | 028.dat | 110719hrbic.met | Nov 07, 2019 21:05:16 | |
| 29 | 166357,MBTS2, | 029.dat | 110719hrbic.met | Nov 07, 2019 21:22:10 | |
| 30 | 166357,MBTV1, | 030.dat | 110719hrbic.met | Nov 07, 2019 21:38:56 | |
| 31 | 166357,MBTV2, | 031.dat | 110719hrbic.met | Nov 07, 2019 21:55:41 | |
| 32 | 166357,MBW, | 032.dat | 110719hrbic.met | Nov 07, 2019 22:12:26 | |
| 33 | 166357,LCSW, | 033.dat | 110719hrbic.met | Nov 07, 2019 22:29:16 | |
| 34 | 166357,347017,10 | 034.dat | 110719hrbic.met | Nov 07, 2019 22:46:02 | |
| 35 | 166357,347019,10 | 035.dat | 110719hrbic.met | Nov 07, 2019 23:02:47 | |
| 36 | 166357,347015,10 | 036.dat | 110719hrbic.met | Nov 07, 2019 23:19:32 | |
| 37 | 166357,MSW347015,10 | 037.dat | 110719hrbic.met | Nov 07, 2019 23:36:22 | |
| 38 | Hex | 038.dat | 110719hrbic.met | Nov 07, 2019 23:53:08 | |
| 39 | AH CCV PP 6083 | 039.dat | 110719hrbic.met | Nov 08, 2019 00:09:53 | |
| 40 | Hex | 040.dat | 110719hrbic.met | Nov 08, 2019 00:26:38 | |
| 41 | 166357,347021,10 | 041.dat | 110719hrbic.met | Nov 08, 2019 00:43:28 | |
| 42 | 166357,347025,10 | 042.dat | 110719hrbic.met | Nov 08, 2019 01:00:10 | |
| 43 | 166357,347029,10 | 043.dat | 110719hrbic.met | Nov 08, 2019 01:16:57 | |
| 44 | Hex | 044.dat | 110719hrbic.met | Nov 08, 2019 01:33:39 | |
| 45 | 166357,347027,100 | 045.dat | 110719hrbic.met | Nov 08, 2019 01:50:30 | |
| 46 | Hex | 046.dat | 110719hrbic.met | Nov 08, 2019 02:07:20 | |
| 47 | 166357,347023,100 | 047.dat | 110719hrbic.met | Nov 08, 2019 02:24:05 | |
| 48 | Hex | 048.dat | 110719hrbic.met | Nov 08, 2019 02:40:48 | |
| 49 | AH CCV PP 6083 | 049.dat | 110719hrbic.met | Nov 08, 2019 02:57:42 | |
| 50 | Hex | 050.dat | 110719hrbic.met | Nov 08, 2019 03:14:28 | |
| 51 | Hex | 051.dat | 110719hrbic.met | Nov 08, 2019 12:05:20 | |
| 52 | AH CCV PP 6083 | 052.dat | 110719hrbic.met | Nov 08, 2019 12:22:04 | |
| 53 | Hex | 053.dat | 110719hrbic.met | Nov 08, 2019 12:38:47 | |
| 54 | 166357,347017, | 054.dat | 110719hrbic.met | Nov 08, 2019 12:55:34 | |
| 55 | 166357,347021, | 055.dat | 110719hrbic.met | Nov 08, 2019 13:12:21 | |
| 56 | 166357,347029, | 056.dat | 110719hrbic.met | Nov 08, 2019 13:29:12 | |
| 57 | 166357,347027,10 | 057.dat | 110719hrbic.met | Nov 08, 2019 13:46:03 | M.I. Index Reason #4 AJ... |
| 58 | Hex | 058.dat | 110719hrbic.met | Nov 08, 2019 14:02:54 | |
| 59 | AH CCV PP 6083 | 059.dat | 110719hrbic.met | Nov 08, 2019 14:19:50 | |
| 60 | Hex | 060.dat | 110719hrbic.met | Nov 08, 2019 14:36:39 | |

# *Summary Report*

**Instrument I...** **Semi 6**
**Data Path:** **C:\Instarch\Semi6\Sequence\112219hrb.seq**
**User ID:** **JJY**
**Printed Date:** **11/25/2019 09:05:32**

JJY
12/03/19

| Run Number | Sample ID | Data Filename | Method Filename | Analysis Date | Data Description |
|---|---|---|---|---|---|
| 1 | AH PRIME PP5887 1:10 | 001.dat | 112219hrb.met | 11/22/2019 15:21:03 | |
| 2 | Hex | 002.dat | 112219hrb.met | 11/22/2019 15:37:45 | |
| 3 | AH CCV PP 6083 | 003.dat | 112219hrb.met | 11/22/2019 15:54:32 | |
| 4 | Hex | 004.dat | 112219hrb.met | 11/22/2019 16:11:17 | |
| 5 | 166947,MBTS, | 005.dat | 112219hrb.met | 11/22/2019 16:28:07 | |
| 6 | 166947,MBTV, | 006.dat | 112219hrb.met | 11/22/2019 16:44:56 | |
| 7 | 166947,MBW, | 007.dat | 112219hrb.met | 11/22/2019 17:01:45 | |
| 8 | 166947,LCSW, | 008.dat | 112219hrb.met | 11/22/2019 17:18:41 | |
| 9 | 166947,356218, | 009.dat | 112219hrb.met | 11/22/2019 17:35:32 | |
| 10 | 166947,356626, | 010.dat | 112219hrb.met | 11/22/2019 17:52:16 | |
| 11 | 166947,356624, | 011.dat | 112219hrb.met | 11/22/2019 18:09:05 | |
| 12 | 166947,MSW356624, | 012.dat | 112219hrb.met | 11/22/2019 18:26:01 | |
| 13 | Hex | 013.dat | 112219hrb.met | 11/22/2019 18:42:47 | |
| 14 | AH CCV PP 6083 | 014.dat | 112219hrb.met | 11/22/2019 18:59:35 | |
| 15 | Hex | 015.dat | 112219hrb.met | 11/22/2019 19:16:22 | |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP5887 | Acid Herbicide Stock (Derivatized) | Hexane ChemPure Lot DS721 | AJZ | 01/30/2019 | 01/30/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S3921B | 1000 | ug/mL | 0.100 | 10.0 | 10.0 |
| S3920B | 1000 | ug/mL | 0.100 | 10.0 | 10.0 |
| S3919B | 1000 | ug/mL | 0.020 | 10.0 | 2.00 |
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CT Laboratories, LLC

**PEST-PCB-LOGBOOK-02**

SV Prep Logbook

*Logbook created: 09/21/17*

NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 46
Page is Unlocked
Page is not Witnessed
Project: Unassigned
Page Title: 040519

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| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP5925 | Acid Herbicide Surrogate | Acetone ChemPure Lot DR774 | AJZ | 04/05/2019 | 06/05/2019 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4031A | 1000 | ug/mL | 0.250 | 50.0 | 5.0 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP5926 | Acid Herbicide Spike | Acetone ChemPure Lot DR774 | AJZ | 04/05/2019 | 06/05/2019 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4030A | 1000 | ug/mL | 0.050 | 50.0 | 1.0 |
| S4029A | 1000 | ug/mL | 0.250 | 50.0 | 5.0 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP5927 | Acid Herbicide Stock (Derivatized) | Hexane ChemPure Lot DT601 | AJZ | 04/05/2019 | 06/05/2019 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4031A | 1000 | ug/mL | 0.100 | 10.0 | 10.0 |
| S4029A | 1000 | ug/mL | 0.100 | 10.0 | 10.0 |
| S4030A | 1000 | ug/mL | 0.020 | 10.0 | 2.00 |
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1

CT Laboratories, LLC

**PEST-PCB-LOGBOOK-02**
SV Prep Logbook
*Logbook created: 09/21/17*

NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 63
Page is Locked
Author: azurfluh on: 11/4/2019 8:10:41 AM
Page is not Witnessed
Project: Unassigned
Page Title: 110419

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6074 | Acid Herbicide Surrogate | Acetone ChemPure Lot DR774 | AJZ | 11/04/2019 | 01/04/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4031B | 1000 | ug/mL | 0.250 | 0.500 | 5.0 |

| Standard Number | Standard Description | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| PP6075 | Acid Herbicide Spike | Acetone ChemPure Lot DR774 | AJZ | 11/04/2019 | 01/04/2020 |

| STD Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|
| S4030B | 1000 | ug/mL | 0.050 | 50.0 | 1.0 |
| S4029B | 1000 | ug/mL | 0.250 | 50.0 | 5.0 |

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CT Laboratories, LLC

**PEST-PCB-LOGBOOK-02**
SV Prep Logbook
*Logbook created: 09/21/17*
NOTEBOOK VIEW: LTN_PEST_PCB_LOGBOOK_02_Default, NOTEBOOK: PEST_PCB_LOGBOOK_02, PAGE: 64
Page is Unlocked
Page is not Witnessed
Project: Unassigned
Page Title: 110719

| | PCB CURVE | Solvent Manufacturer Lot | Analyst | Prep Date | Expiration Date |
|---|---|---|---|---|---|
| | Acid Herbicide ICAL | Hexane<br>ChemPure<br>lot DT601 | JJY | 11/07/2019 | 01/30/2020 |

| Standard Number | Standard Description | Parent ID | Parent Concentration | Units | Standard Volume (ml) | Final Volume (ml) | Final Concentration (ug/ml) |
|---|---|---|---|---|---|---|---|
| PP6076 | AH ICAL PT 1 | PP5927 | 10.0/2.0 | ug/ml | 0.020 | 10.0 | 0.02/0.004 |
| PP6077 | AH ICAL PT 2 | PP5927 | 10.0/2.0 | ug/ml | 0.050 | 10.0 | 0.05/0.01 |
| PP6078 | AH ICAL PT 3 | PP5927 | 10.0/2.0 | ug/ml | 0.200 | 10.0 | 0.20/0.04 |
| PP6079 | AH ICAL PT 4 | PP5927 | 10.0/2.0 | ug/ml | 0.500 | 10.0 | 0.50/0.10 |
| PP6080 | AH ICAL PT 5 | PP5927 | 10.0/2.0 | ug/ml | 0.700 | 10.0 | 0.70/0.14 |
| PP6081 | AH ICAL PT 6 | PP5927 | 10.0/2.0 | ug/ml | 1.000 | 10.0 | 1.00/0.20 |
| PP6082 | AH ICV | PP5887 | 10.0/2.0 | ug/ml | 0.500 | 10.0 | 0.50/0.10 |
| PP6083 | AH CCV | PP5927 | 10.0/2.0 | ug/ml | 0.500 | 10.0 | 0.50/0.10 |

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CT Laboratories, LLC

# METALS
# CLP FORMS
# DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

1

**46ADPT-TCLP**

***INORGANIC ANALYSIS DATA SHEET***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | TCLP | SDG No.: | 149511 |
| % Solids: | | Lab Sample ID: | 356218 |
| Analytical Method: | EPA 6010C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | 11/16/2019 09:10 |
| Analytical Run #: | 166766 | Analysis Date/Time | 11/21/2019 07:44 |
| Analytical Prep Batch #: | 74587 | Prep. Date/Time: | 11/19/2019 14:44 |
| ICAL Calibration #: | | Concentration Units: | mg/L |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 0.012 | U | 0.0040 | 0.012 | 0.024 | 0.024 |
| 7440-39-3 | Barium | 0.44 | | 0.00029 | 0.00090 | 0.0018 | 0.0018 |
| 7440-43-9 | Cadmium | 0.00039 | J | 0.00030 | 0.0010 | 0.0020 | 0.0020 |
| 7440-47-3 | Chromium | 0.0013 | J | 0.00060 | 0.0020 | 0.0040 | 0.0040 |
| 7439-92-1 | Lead | 0.017 | | 0.0014 | 0.0020 | 0.0040 | 0.0040 |
| 7782-49-2 | Selenium | 0.011 | J M | 0.0022 | 0.0065 | 0.013 | 0.013 |
| 7440-22-4 | Silver | 0.0020 | U | 0.00070 | 0.0020 | 0.0040 | 0.0040 |

CT LABORATORIES
delivering more than data from your environmental analyses

1

***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | TCLP | SDG No.: | 149511 |
| % Solids: | | Lab Sample ID: | 356218 |
| Analytical Method: | EPA 7470A | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | 11/16/2019 09:10 |
| Analytical Run #: | 166905 | Analysis Date/Time | 11/22/2019 16:43 |
| Analytical Prep Batch #: | 74586 | Prep. Date/Time: | 11/21/2019 10:02 |
| ICAL Calibration #: | 11222019 | Concentration Units: | mg/L |

| CAS # | Analyte | Concentration | Qualifiers | | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.000060 | U | M | 0.00003 | 0.00006 | 0.00012 | 0.00012 |

CT LABORATORIES
delivering more than data from your environmental analyses

2A-1

ICV

## *INITIAL CALIBRATION VERIFICATION*

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905  Lab Sample ID: 363339

ICAL Calibration #: 11222019  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Mercury | 11/22/19 13:04 | 0.00300 | 0.00300 | 100 | 90 | 110 |

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-1

ICV

## *INITIAL CALIBRATION VERIFICATION*

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363217

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/20/19 | 11:24 | 2.00 | 1.93 | 96 | 90 | 110 |
| Barium | 11/20/19 | 11:24 | 2.00 | 2.00 | 100 | 90 | 110 |
| Cadmium | 11/20/19 | 11:24 | 0.0500 | 0.0478 | 96 | 90 | 110 |
| Chromium | 11/20/19 | 11:24 | 0.200 | 0.196 | 98 | 90 | 110 |
| Lead | 11/20/19 | 11:24 | 0.500 | 0.489 | 98 | 90 | 110 |
| Selenium | 11/20/19 | 11:24 | 2.00 | 1.93 | 96 | 90 | 110 |
| Silver | 11/20/19 | 11:24 | 0.0500 | 0.0510 | 102 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-1

***LOWER LIMIT OF QUANTITATION CHECK (LLQC)***

**LLQC**

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363218

ICAL Calibration #:  Concentration Units:

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/20/19 | 11:30 | 0.0600 | 0.0666 | 111 | 80 | 120 |
| Barium | 11/20/19 | 11:30 | 0.0300 | 0.0337 | 112 | 80 | 120 |
| Cadmium | 11/20/19 | 11:30 | 0.0150 | 0.0174 | 116 | 80 | 120 |
| Chromium | 11/20/19 | 11:30 | 0.0300 | 0.0323 | 108 | 80 | 120 |
| Lead | 11/20/19 | 11:30 | 0.0300 | 0.0330 | 110 | 80 | 120 |
| Selenium | 11/20/19 | 11:30 | 0.0600 | 0.0708 | 118 | 80 | 120 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-1

***LOWER LIMIT OF QUANTITATION CHECK (LLQC)***

**LLQC**

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363222

ICAL Calibration #:  Concentration Units:

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Silver | 11/20/19 12:15 | 0.0100 | 0.00880 | 88 | 80 | 120 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

**CCV High Level**

***CONTINUING CALIBRATION VERIFICATION (LEVEL 1 - HIGH RANGE)***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363223

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/19 | 05:56 | 5.00 | 5.16 | 103 | 90 | 110 |
| Barium | 11/21/19 | 05:56 | 5.00 | 4.87 | 97 | 90 | 110 |
| Cadmium | 11/21/19 | 05:56 | 0.500 | 0.545 | 109 | 90 | 110 |
| Chromium | 11/21/19 | 05:56 | 5.00 | 4.94 | 99 | 90 | 110 |
| Lead | 11/21/19 | 05:56 | 5.00 | 5.16 | 103 | 90 | 110 |
| Selenium | 11/21/19 | 05:56 | 5.00 | 5.45 | 109 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

**CCV Low Level**

***CONTINUING CALIBRATION VERIFICATION (LEVEL 2 - LOW RANGE)***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363224

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/19 | 06:02 | 0.500 | 0.524 | 105 | 90 | 110 |
| Barium | 11/21/19 | 06:02 | 0.500 | 0.541 | 108 | 90 | 110 |
| Cadmium | 11/21/19 | 06:02 | 0.0500 | 0.0496 | 99 | 90 | 110 |
| Chromium | 11/21/19 | 06:02 | 0.500 | 0.550 | 110 | 90 | 110 |
| Lead | 11/21/19 | 06:02 | 0.500 | 0.543 | 109 | 90 | 110 |
| Selenium | 11/21/19 | 06:02 | 0.500 | 0.508 | 102 | 90 | 110 |
| Silver | 11/21/19 | 06:02 | 0.0500 | 0.0514 | 103 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

**CCV High Level**

***CONTINUING CALIBRATION VERIFICATION (LEVEL 1 - HIGH RANGE)***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363226

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/19 | 07:19 | 5.00 | 5.13 | 103 | 90 | 110 |
| Barium | 11/21/19 | 07:19 | 5.00 | 4.83 | 97 | 90 | 110 |
| Cadmium | 11/21/19 | 07:19 | 0.500 | 0.537 | 107 | 90 | 110 |
| Chromium | 11/21/19 | 07:19 | 5.00 | 4.93 | 99 | 90 | 110 |
| Lead | 11/21/19 | 07:19 | 5.00 | 5.13 | 103 | 90 | 110 |
| Selenium | 11/21/19 | 07:19 | 5.00 | 5.35 | 107 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

**CCV Low Level**

## *CONTINUING CALIBRATION VERIFICATION (LEVEL 2 - LOW RANGE)*

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363227

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/19 | 07:25 | 0.500 | 0.525 | 105 | 90 | 110 |
| Barium | 11/21/19 | 07:25 | 0.500 | 0.538 | 108 | 90 | 110 |
| Cadmium | 11/21/19 | 07:25 | 0.0500 | 0.0495 | 99 | 90 | 110 |
| Chromium | 11/21/19 | 07:25 | 0.500 | 0.534 | 107 | 90 | 110 |
| Lead | 11/21/19 | 07:25 | 0.500 | 0.540 | 108 | 90 | 110 |
| Selenium | 11/21/19 | 07:25 | 0.500 | 0.521 | 104 | 90 | 110 |
| Silver | 11/21/19 | 07:25 | 0.0500 | 0.0509 | 102 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

**CCV High Level**

***CONTINUING CALIBRATION VERIFICATION (LEVEL 1 - HIGH RANGE)***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363231

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/19 | 08:45 | 5.00 | 5.31 | 106 | 90 | 110 |
| Barium | 11/21/19 | 08:45 | 5.00 | 4.98 | 100 | 90 | 110 |
| Cadmium | 11/21/19 | 08:45 | 0.500 | 0.550 | 110 | 90 | 110 |
| Chromium | 11/21/19 | 08:45 | 5.00 | 4.95 | 99 | 90 | 110 |
| Lead | 11/21/19 | 08:45 | 5.00 | 5.42 | 108 | 90 | 110 |
| Selenium | 11/21/19 | 08:45 | 5.00 | 5.37 | 107 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

**CCV Low Level**

## *CONTINUING CALIBRATION VERIFICATION (LEVEL 2 - LOW RANGE)*

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 363232

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/19 | 08:51 | 0.500 | 0.543 | 109 | 90 | 110 |
| Barium | 11/21/19 | 08:51 | 0.500 | 0.550 | 110 | 90 | 110 |
| Cadmium | 11/21/19 | 08:51 | 0.0500 | 0.0497 | 99 | 90 | 110 |
| Chromium | 11/21/19 | 08:51 | 0.500 | 0.538 | 108 | 90 | 110 |
| Lead | 11/21/19 | 08:51 | 0.500 | 0.551 | 110 | 90 | 110 |
| Selenium | 11/21/19 | 08:51 | 0.500 | 0.527 | 105 | 90 | 110 |
| Silver | 11/21/19 | 08:51 | 0.0500 | 0.0509 | 102 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

***CONTINUING CALIBRATION VERIFICATION***

**CCV**

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905  Lab Sample ID: 363341

ICAL Calibration #: 11222019  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Mercury | 11/22/19 16:08 | 0.00300 | 0.00304 | 101 | 90 | 110 |

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

***CONTINUING CALIBRATION VERIFICATION***

**CCV**

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905  Lab Sample ID: 363343

ICAL Calibration #: 11222019  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Mercury | 11/22/19 16:37 | 0.00300 | 0.00293 | 98 | 90 | 110 |

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

***CONTINUING CALIBRATION VERIFICATION***

**CCV**

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905  Lab Sample ID: 363345

ICAL Calibration #: 11222019  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Mercury | 11/22/19 17:05 | 0.00300 | 0.00298 | 99 | 90 | 110 |

Default Limits (not applicable to MDL Check)  **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

2A-2

***CONTINUING CALIBRATION VERIFICATION***

**CCV**

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905  Lab Sample ID: 363347

ICAL Calibration #: 11222019  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R** | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Mercury | 11/22/19 17:33 | 0.00300 | 0.00289 | 96 | 90 | 110 |

Default Limits (not applicable to MDL Check) **No percent recovery is calculated for MDL checks. The check is simply whether the analyte is detected.

(1) Control Limits: 70-130

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

***INITIAL CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363340

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Mercury | 11/22/2019 13:08 | 0 | U | 0.00003 | 0.00006 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

ICB

3-1

***INITIAL CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363219

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Arsenic | 11/20/2019 11:37 | 0.000453 | U | 0.004 | 0.012 |
| Barium | 11/20/2019 11:37 | -0.00111 | U | 0.00029 | 0.00090 |
| Cadmium | 11/20/2019 11:37 | -0.000156 | U | 0.0003 | 0.0010 |
| Chromium | 11/20/2019 11:37 | -0.000368 | U | 0.0006 | 0.0020 |
| Lead | 11/20/2019 11:37 | 0.000099 | U | 0.0014 | 0.0020 |
| Selenium | 11/20/2019 11:37 | -0.00549 | U | 0.0022 | 0.0065 |
| Silver | 11/20/2019 11:37 | -0.000061 | U | 0.0007 | 0.0020 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

***CONTINUING CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363342

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Mercury | 11/22/2019 16:13 | 0 | U | 0.00003 | 0.00006 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

***CONTINUING CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363344

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Mercury | 11/22/2019 16:41 | 0 | U | 0.00003 | 0.00006 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

***CONTINUING CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363346

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Mercury | 11/22/2019 17:09 | 0 | U | 0.00003 | 0.00006 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

***CONTINUING CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905 Lab Sample ID: 363348

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: 11222019 Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Mercury | 11/22/2019 17:37 | 0 | U | 0.00003 | 0.00006 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

***CONTINUING CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363225

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Arsenic | 11/21/2019 06:08 | -0.000355 | U | 0.004 | 0.012 |
| Barium | 11/21/2019 06:08 | 0.000398 | | 0.00029 | 0.00090 |
| Cadmium | 11/21/2019 06:08 | 0.000069 | U | 0.0003 | 0.0010 |
| Chromium | 11/21/2019 06:08 | 0.000134 | U | 0.0006 | 0.0020 |
| Lead | 11/21/2019 06:08 | 0.000908 | U | 0.0014 | 0.0020 |
| Selenium | 11/21/2019 06:08 | 0.00143 | U | 0.0022 | 0.0065 |
| Silver | 11/21/2019 06:08 | -0.00121 | U | 0.0007 | 0.0020 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

CCB

3-2

***CONTINUING CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363228

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Arsenic | 11/21/2019 07:31 | 0.000582 | U | 0.004 | 0.012 |
| Barium | 11/21/2019 07:31 | 0.000540 | | 0.00029 | 0.00090 |
| Cadmium | 11/21/2019 07:31 | 0.000004 | U | 0.0003 | 0.0010 |
| Chromium | 11/21/2019 07:31 | 0.000306 | U | 0.0006 | 0.0020 |
| Lead | 11/21/2019 07:31 | -0.000160 | U | 0.0014 | 0.0020 |
| Selenium | 11/21/2019 07:31 | 0.00205 | U | 0.0022 | 0.0065 |
| Silver | 11/21/2019 07:31 | -0.00151 | U | 0.0007 | 0.0020 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

CCB

3-2

***CONTINUING CALIBRATION BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766 Lab Sample ID: 363233

Analytical Prep Batch # 0 Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Arsenic | 11/21/2019 08:57 | 0.00224 | U | 0.004 | 0.012 |
| Barium | 11/21/2019 08:57 | 0.000321 | | 0.00029 | 0.00090 |
| Cadmium | 11/21/2019 08:57 | 0.000057 | U | 0.0003 | 0.0010 |
| Chromium | 11/21/2019 08:57 | 0.000736 | | 0.0006 | 0.0020 |
| Lead | 11/21/2019 08:57 | 0.000850 | U | 0.0014 | 0.0020 |
| Selenium | 11/21/2019 08:57 | -0.000651 | U | 0.0022 | 0.0065 |
| Silver | 11/21/2019 08:57 | -0.00119 | U | 0.0007 | 0.0020 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

**MB**

**3-3**

***METHOD BLANKS***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166905  Lab Sample ID: 359026

Analytical Prep Batch # 74586  Preparation Date/Time: 11/21/2019 10:02

ICAL Calibration #: 11222019  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Mercury | 11/22/2019 16:33 | -0.000010 | U | 0.00003 | 0.00006 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No

**MB**

**3-3**

***METHOD BLANKS***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166766  Lab Sample ID: 359031

Analytical Prep Batch # 74587  Preparation Date/Time: 11/19/2019 14:44

ICAL Calibration #:  Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit | |
|---|---|---|---|---|---|---|
| Arsenic | 11/21/2019 07:37 | -0.00170 | U | 0.004 | 0.012 | |
| Barium | 11/21/2019 07:37 | -0.00125 | U | 0.00029 | 0.00090 | FAIL |
| Cadmium | 11/21/2019 07:37 | -0.000390 | U | 0.0003 | 0.0010 | |
| Chromium | 11/21/2019 07:37 | -0.000230 | U | 0.0006 | 0.0020 | |
| Lead | 11/21/2019 07:37 | -0.00148 | U | 0.0014 | 0.0020 | |
| Selenium | 11/21/2019 07:37 | -0.000096 | U | 0.0022 | 0.0065 | |
| Silver | 11/21/2019 07:37 | -0.000789 | U | 0.0007 | 0.0020 | |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
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Sample No:

4-1

**ICP INTERFERENCE CHECK SAMPLE (SOL. A)**

**ICSA**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
ICP ID Number: TJA 6000
SDG No.: 149511
ICS Source: SPEX

Analytical Run #: 166766
Lab Sample ID: 363220
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Aluminum | 11/20/2019 11:55 | 500.0 | 441.0 | 88 | 80 | 120 |
| Arsenic | 11/20/2019 11:55 | 0 | -0.0000130 | | -.02 | .02 |
| Barium | 11/20/2019 11:55 | 0 | 0 | | -.0017 | .0017 |
| Cadmium | 11/20/2019 11:55 | 0 | -0.0000010 | | -.013 | .013 |
| Calcium | 11/20/2019 11:55 | 500.0 | 430.0 | 86 | 80 | 120 |
| Chromium | 11/20/2019 11:55 | 0 | 0.00301 | | -.013 | .013 |
| Iron | 11/20/2019 11:55 | 500.0 | 451.0 | 90 | 80 | 120 |
| Lead | 11/20/2019 11:55 | 0 | 0.000852 | | -.0047 | .0047 |
| Magnesium | 11/20/2019 11:55 | 500.0 | 416.0 | 83 | 80 | 120 |
| Selenium | 11/20/2019 11:55 | 0 | -0.00197 | | -.013 | .013 |
| Silver | 11/20/2019 11:55 | 0 | -0.000384 | | -.0073 | .0073 |

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No:

4-2

**ICP INTERFERENCE CHECK SAMPLE (SOL. AB)**

**ICSAB**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
ICP ID Number: TJA 6000
SDG No.: 149511
ICS Source: SPEX, Ultra

Analytical Run #: 166766
Lab Sample ID: 363221
Inorganics MRL Standard Source: SPEX, Ultra,Inorganic Ventures and Mallinkrodt
ICAL Calibration #:
Concentration Units: mg/L

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Spiked Conc. | Measured Conc. | %R | Lower Limit (1) | Upper Limit (1) |
|---|---|---|---|---|---|---|
| Aluminum | 11/20/2019 12:02 | 500.0 | 453.0 | 91 | 80 | 120 |
| Arsenic | 11/20/2019 12:02 | 0.500 | 0.468 | 94 | 80 | 120 |
| Barium | 11/20/2019 12:02 | 0.500 | 0.499 | 100 | 80 | 120 |
| Cadmium | 11/20/2019 12:02 | 0.500 | 0.465 | 93 | 80 | 120 |
| Calcium | 11/20/2019 12:02 | 500.0 | 441.0 | 88 | 80 | 120 |
| Chromium | 11/20/2019 12:02 | 0.500 | 0.479 | 96 | 80 | 120 |
| Iron | 11/20/2019 12:02 | 500.0 | 440.0 | 88 | 80 | 120 |
| Lead | 11/20/2019 12:02 | 0.500 | 0.443 | 89 | 80 | 120 |
| Magnesium | 11/20/2019 12:02 | 500.0 | 426.0 | 85 | 80 | 120 |
| Selenium | 11/20/2019 12:02 | 0.500 | 0.510 | 102 | 80 | 120 |
| Silver | 11/20/2019 12:02 | 0.500 | 0.410 | 82 | 80 | 120 |

CT LABORATORIES
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5A

Sample Description

46ADPT-TCLP

## SPIKE SAMPLE RECOVERY

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | LIQUID | SDG No.: | 149511 |
| % Solids for Sample: | | Concentration Units: | mg/L |
| Sample No | 359029 | Parent Sample No.: | 356218 |
| Analytical Prep Batch # | 74586 | Analytical Preparation Date/Time: | 11/21/2019 10:02 |
| Analytical Run #: | 166905 | ICAL Calibration #: | 11222019 |

| Analysis Type | *Initial Analysis* | Analysis Date: ----- | 11/22/2019 | Analysis Time: -------- | 16:51 |
|---|---|---|---|---|---|

| Analyte | Control Limit (%R) | Spike Result | C (Spike) | Parent Result | C (Parent) | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 82-119 | 0.00176 | | BDL | U | 0.00200 | 88 | | CV |

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

Sample Description

46ADPT-TCLP

***SPIKE SAMPLE RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | LIQUID | SDG No.: | 149511 |
| % Solids for Sample: | | Concentration Units: | mg/L |
| Sample No | 359034 | Parent Sample No.: | 356218 |
| Analytical Prep Batch # | 74587 | Analytical Preparation Date/Time: | 11/19/2019 14:44 |
| Analytical Run #: | 166766 | ICAL Calibration #: | |

| Analysis Type | *Initial Analysis* | Analysis Date: ----- | 11/21/2019 | Analysis Time: -------- | 08:05 |
|---|---|---|---|---|---|

| Analyte | Control Limit (%R) | Spike Result | C (Spike) | Parent Result | C (Parent) | Spike Amount | %R | Q | M | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 87-113 | 0.914 | | BDL | U | 0.800 | 114 | | P | *FAIL* |
| Barium | 88-113 | 1.17 | | 0.44 | | 0.800 | 91 | | P | |
| Cadmium | 88-113 | 0.0174 | | 0.00039 | J | 0.0200 | 85 | | P | *FAIL* |
| Chromium | 90-113 | 0.0794 | | 0.0013 | J | 0.0800 | 98 | | P | |
| Lead | 86-113 | 0.194 | | 0.017 | | 0.200 | 88 | | P | |
| Selenium | 83-114 | 1.02 | | 0.011 | J | 0.800 | 126 | | P | *FAIL* |
| Silver | 84-115 | 0.0160 | | BDL | U | 0.0200 | 80 | | P | *FAIL* |

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5B

Sample Description

46ADPT-TCLP

***POST DIGESTION SPIKE SAMPLE RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | LIQUID | SDG No.: | 149511 |
| % Solids for Sample: | | Concentration Units: | mg/L |
| Sample No | 363230 | Parent Sample No.: | 356218 |
| Analytical Prep Batch # | 0 | Analytical Preparation Date/Time: | |
| Analytical Run #: | 166766 | ICAL Calibration #: | |

| Analysis Type | *Initial Analysis* | Analysis Date: ----- | 11/21/2019 | Analysis Time: -------- | 08:18 |
|---|---|---|---|---|---|

| Analyte | Control Limit (%R) | Spike Result | C (Spike) | Parent Result | C (Parent) | Spike Amount | %R | Q | M | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 80-120 | 4.78 | | BDL | U | 4 | 120 | | P | |
| Cadmium | 80-120 | 0.0868 | | 0.00039 | J | 0.1 | 86 | | P | |
| Selenium | 80-120 | 5.13 | | 0.011 | J | 4 | 128 | | P | *FAIL* |
| Silver | 80-120 | 0.0839 | | BDL | U | 0.1 | 84 | | P | |

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5C

Sample Description

46ADPT-TCLP

***SPIKE DUPLICATE SAMPLE RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | LIQUID | SDG No.: | 149511 |
| % Solids for Sample: | | Concentration Units: | mg/L |
| Sample No | 359030 | Parent Sample No.: | 359029 |
| Analytical Prep Batch # | 74586 | Analytical Preparation Date/Time: | 11/21/2019 10:02 |
| Analytical Run #: | 166905 | ICAL Calibration #: | 11222019 |

| Analysis Type | *Initial Analysis* | Analysis Date: ----- | 11/22/2019 | Analysis Time: -------- | 16:53 |
|---|---|---|---|---|---|

| Analyte | Control Limit (%R) | Spike Result | C (Spike) | Parent Result | C (Parent) | Spike Amount | %R | Q | M | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 82-119 | 0.00162 | | BDL | U | 0.00200 | 81 | | CV | *FAIL* |

BDL = analyte concentration was below detection limit

CT LABORATORIES
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5C

Sample Description

46ADPT-TCLP

***SPIKE DUPLICATE SAMPLE RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | LIQUID | SDG No.: | 149511 |
| % Solids for Sample: | | Concentration Units: | mg/L |
| Sample No | 359035 | Parent Sample No.: | 359034 |
| Analytical Prep Batch # | 74587 | Analytical Preparation Date/Time: | 11/19/2019 14:44 |
| Analytical Run #: | 166766 | ICAL Calibration #: | |

| Analysis Type | *Initial Analysis* | Analysis Date: ----- | 11/21/2019 | Analysis Time: -------- | 08:12 |
|---|---|---|---|---|---|

| Analyte | Control Limit (%R) | Spike Result | C (Spike) | Parent Result | C (Parent) | Spike Amount | %R | Q | M | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 87-113 | 0.929 | | BDL | U | 0.800 | 116 | | P | *FAIL* |
| Barium | 88-113 | 1.22 | | 0.44 | | 0.800 | 98 | | P | |
| Cadmium | 88-113 | 0.0180 | | 0.00039 | J | 0.0200 | 88 | | P | |
| Chromium | 90-113 | 0.0823 | | 0.0013 | J | 0.0800 | 101 | | P | |
| Lead | 86-113 | 0.197 | | 0.017 | | 0.200 | 90 | | P | |
| Selenium | 83-114 | 1.05 | | 0.011 | J | 0.800 | 130 | | P | *FAIL* |
| Silver | 84-115 | 0.0169 | | BDL | U | 0.0200 | 84 | | P | |

BDL = analyte concentration was below detection limit

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***DUPLICATES***

Sample Description

**46ADPT-TCLP**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch #: 1
Analytical Preparation Date/Time: 74586
Analytical Run #: 166905
ICAL Calibration #: 11222019
Sample #: 359028
Parent Sample #: 356218

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Original Parent Conc. (S) | C | Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 11/22/2019 | 17:13 | 20 | 0.000030 | U | 0.000030 | U | 0 | | CV |

CT LABORATORIES
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***DUPLICATES***

Sample Description

**46ADPT-TCLP**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch #: 1
Analytical Preparation Date/Time: 74587
Analytical Run #: 166766
ICAL Calibration #:
Sample #: 359033
Parent Sample #: 356218

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Original Parent Conc. (S) | C | Duplicate Conc. (D) | C | RPD | Q | M | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/2019 | 07:58 | 20 | 0.0040 | U | 0.00687 | J | 200 | | P | *FAIL* |
| Barium | 11/21/2019 | 07:58 | 20 | 0.44 | | 0.438 | | 0 | | P | |
| Cadmium | 11/21/2019 | 07:58 | 20 | 0.00039 | J | 0.00030 | U | 200 | | P | *FAIL* |
| Chromium | 11/21/2019 | 07:58 | 20 | 0.0013 | J | 0.00171 | J | 27 | | P | *FAIL* |
| Lead | 11/21/2019 | 07:58 | 20 | 0.017 | | 0.0170 | | 0 | | P | |
| Selenium | 11/21/2019 | 07:58 | 20 | 0.011 | J | 0.0114 | J | 4 | | P | |
| Silver | 11/21/2019 | 07:58 | 20 | 0.00070 | U | 0.00070 | U | 0 | | P | |

CT LABORATORIES
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Sample Description

**46ADPT-TCLP**

**6A**

***MATRIX SPIKE DUPLICATES***

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch #: 74586
Analytical Preparation Date/Time: 11/21/2019 10:02
Analytical Run #: 166905
ICAL Calibration #: 11222019
Sample #: 359030
Parent Sample #: 359029

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Matrix Spik Parent Conc. (S) | C | Matrix Spike Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 11/22/2019 | 16:53 | 20 | 0.00176 | | 0.00162 | | 9 | | CV |

CT LABORATORIES
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6A

***MATRIX SPIKE DUPLICATES***

Sample Description: **46ADPT-TCLP**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: LIQUID
SDG No.: 149511
% Solid for Sample:
Concentration Units: mg/L
Analytical Prep Batch #: 74587
Analytical Preparation Date/Time: 11/19/2019 14:44
Analytical Run #: 166766
ICAL Calibration #:
Sample #: 359035
Parent Sample #: 359034

Analysis Type: *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Matrix Spik Parent Conc. (S) | C | Matrix Spike Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/2019 | 08:12 | 20 | 0.914 | | 0.929 | | 2 | | P |
| Barium | 11/21/2019 | 08:12 | 20 | 1.17 | | 1.22 | | 4 | | P |
| Cadmium | 11/21/2019 | 08:12 | 20 | 0.0174 | | 0.0180 | | 3 | | P |
| Chromium | 11/21/2019 | 08:12 | 20 | 0.0794 | | 0.0823 | | 4 | | P |
| Lead | 11/21/2019 | 08:12 | 20 | 0.194 | | 0.197 | | 2 | | P |
| Selenium | 11/21/2019 | 08:12 | 20 | 1.02 | | 1.05 | | 3 | | P |
| Silver | 11/21/2019 | 08:12 | 20 | 0.0160 | | 0.0169 | | 5 | | P |

CT LABORATORIES
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7-1

Sample No:

***LABORATORY CONTROL SAMPLE - AQUEOUS***

**LCS**

Lab Name: CT Laboratories Contract HDR, INC-LONGHORN

LCS Source: SPEX and Ultra SDG No.: 149511

Concentration Units: mg/L

Analytical Run #: 166905 Sample No.:#: 359027

Analytical Prep Batch #: 74586 Preparation Date/Time: 11/21/2019 10:02

ICAL Calibration #: 11222019

Analysis Type ---------- Initial Analysis

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | C | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|
| Mercury | 11/22/2019 16:29 | 82-119 | 0.00189 | | 0.00200 | 94 | | CV |

CT LABORATORIES
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7-1

Sample No:

***LABORATORY CONTROL SAMPLE - AQUEOUS***

**LCS**

Lab Name: CT Laboratories Contract HDR, INC-LONGHORN

LCS Source: SPEX and Ultra SDG No.: 149511

Concentration Units: mg/L

Analytical Run #: 166766 Sample No.:#: 359032

Analytical Prep Batch #: 74587 Preparation Date/Time: 11/19/2019 14:44

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | C | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/2019 07:13 | 87-113 | 0.824 | | 0.800 | 103 | | P |
| Barium | 11/21/2019 07:13 | 88-113 | 0.794 | | 0.800 | 99 | | P |
| Cadmium | 11/21/2019 07:13 | 88-113 | 0.0178 | | 0.0200 | 89 | | P |
| Chromium | 11/21/2019 07:13 | 90-113 | 0.0802 | | 0.0800 | 100 | | P |
| Lead | 11/21/2019 07:13 | 86-113 | 0.193 | | 0.200 | 96 | | P |
| Selenium | 11/21/2019 07:13 | 83-114 | 0.785 | | 0.800 | 98 | | P |
| Silver | 11/21/2019 07:13 | 84-115 | 0.0168 | | 0.0200 | 84 | | P |

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## ICP SERIAL DILUTION

Sample Description: **46ADPT-TCLP**

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

Matrix: LIQUID  SDG No.: 149511

Concentration Units: ug/L

Sample No.: 363229  Parent Sample No.: 356218

LIMS Run #: 166766  ICAL Calibration #:.:

Analysis Type ---------- Initial Analysis

| Analyte | Analysis Date/Time | Initial Sample Result (I) | C (I) | Serial Dilution Result (S) | C (S) | % Diff. | Q | M | |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 11/21/2019 07:51 | BDL | U | 2.545 | | 0 | | P | *INVALID* |
| Cadmium | 11/21/2019 07:51 | .387 | | 0.0015 | U | 100 | | P | *INVALID* |
| Selenium | 11/21/2019 07:51 | 10.5 | | 0.011 | U | 100 | | P | *INVALID* |
| Silver | 11/21/2019 07:51 | BDL | U | 0.0035 | U | 0 | | P | *INVALID* |

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***METHOD DETECTION LIMITS (ANNUALLY)***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Matrix: LIQUID

| Analyte | Wavelength (nm) | Background | CRDL (ug/L) | MDL ( mg/L) | M |
|---|---|---|---|---|---|
| Mercury | 253.7 | | | 0.00003 | CV |

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***METHOD DETECTION LIMITS (ANNUALLY)***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

ICP ID Number: TJA SDG No.: 149511

Matrix: LIQUID

| Analyte | Wavelength (nm) | Background | CRDL (ug/L) | MDL ( mg/L) | M |
|---|---|---|---|---|---|
| Arsenic | 193.7 | | | 0.004 | P |
| Barium | 455.4 | | | 0.00029 | P |
| Cadmium | 226.502 | | | 0.0003 | P |
| Chromium | 267.716 | | | 0.0006 | P |
| Lead | 220.35 | | | 0.0014 | P |
| Selenium | 196.02 | | | 0.0022 | P |
| Silver | 328.068 | | | 0.0007 | P |

CT LABORATORIES

delivering more than data from your environmental analyses

## ICP INTERELEMENT CORRECTION FACTORS (ANNUAL)
## ICP ID NUMBER: TA ICAP6000 / ICAP6500

| Element, Wavelength and Order | Use? | # IECs | IEC | k1 | k2 | Calc-in-fit? |
|---|---|---|---|---|---|---|
| Ag 328.068 {103} | ☒ | 2 | Fe | 0.000006 | 0.000000 | No |
| | | | Ce | 0.000000 | 0.000000 | No |
| Ag 338.289 {100} | ☒ | 1 | Fe | 0.000906 | 0.000000 | No |
| Al 167.079 {501} | ☒ | None | | | | |
| Al 308.215 {109} | ☒ | None | | | | |
| Al 396.152 { 85} | ☒ | None | | | | |
| As 193.759 {474} | ☒ | 1 | Al | 0.001713 | 0.000000 | No |
| As 197.262 {471} | ☒ | 1 | Al | -0.000113 | 0.000000 | No |
| Ba 233.527 {445} | ☒ | 3 | Fe | -0.000038 | 0.000000 | No |
| | | | V | 0.000180 | 0.000000 | No |
| | | | Al | 0.000000 | 0.000000 | No |
| Ba 455.403 { 74} | ☒ | 1 | Fe | 0.000002 | 0.000000 | No |
| Ba 493.409 { 68} | ☒ | 1 | Fe | 0.000029 | 0.000000 | No |
| Be 313.042 {108} | ☒ | 1 | Fe | 0.000000 | 0.000000 | No |
| Be 234.861 {144} | ☒ | 1 | Fe | -0.000016 | 0.000000 | No |
| Ca 315.887 {107} | ☒ | None | | | | |
| Ca 317.933 {106} | ☒ | None | | | | |
| Ca 393.366 { 86} | ☒ | 1 | Cu | 0.000000 | 0.000000 | No |
| Ca 396.847 { 85} | ☒ | None | | | | |
| Cd 226.502 {449} | ☒ | 2 | Fe | 0.000090 | 0.000000 | No |
| | | | Al | 0.000000 | 0.000000 | No |
| Cd 228.802 {147} | ☒ | None | | | | |
| Co 228.616 {447} | ☒ | 5 | Fe | 0.000009 | 0.000000 | No |
| | | | Ti | 0.003000 | 0.000000 | No |
| | | | Ba | -0.001300 | 0.000000 | No |
| | | | Ni | 0.000040 | 0.000000 | No |
| | | | Al | 0.000001 | 0.000000 | No |
| Co 238.892 {141} | ☒ | 1 | Fe | 0.000188 | 0.000000 | No |
| Cr 205.560 {464} | ☒ | 1 | Fe | -0.000004 | 0.000000 | No |
| Cr 267.716 {126} | ☒ | 1 | Fe | -0.000014 | 0.000000 | No |
| Cu 224.700 {450} | ☒ | 5 | Fe | 0.000274 | 0.000000 | No |
| | | | Mo | 0.001320 | 0.000000 | No |
| | | | Ni | -0.006000 | 0.000000 | No |
| | | | Pb | 0.003030 | 0.000000 | No |
| | | | Al | 0.000000 | 0.000000 | No |
| Cu 324.754 {104} | ☒ | 1 | Fe | -0.000136 | 0.000000 | No |
| Cu 327.396 {103} | ☒ | 1 | Fe | 0.000069 | 0.000000 | No |
| Fe 234.349 {144} | ☒ | None | | | | |
| Fe 239.562 {140} | ☒ | None | | | | |
| Fe 259.940 {129} | ☒ | None | | | | |
| Mg 202.582 {466} | ☒ | None | | | | |
| Mg 279.079 {121} | ☒ | None | | | | |
| Mg 280.270 {120} | ☒ | None | | | | |
| Mn 257.610 {131} | ☒ | 1 | Al | -0.000086 | 0.000000 | No |

CT LABORATORIES

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## ICP INTERELEMENT CORRECTION FACTORS (ANNUAL)
## ICP ID NUMBER: TA ICAP6000 / ICAP6500

| Element, Wavelength and Order | Use? | # IECs | IEC | k1 | k2 | Calc-in-fit? |
|---|---|---|---|---|---|---|
| Mn 259.373 {130} | ☒ | 1 | Mg | 0.001339 | 0.000000 | No |
| Mo 202.030 {466} | ☒ | 1 | Fe | -0.000011 | 0.000000 | No |
| Mo 203.844 {465} | ☒ | 1 | Fe | -0.000020 | 0.000000 | No |
| Mo 204.598 {464} | ☒ | 1 | Fe | 0.000036 | 0.000000 | No |
| Ni 221.647 {452} | ☒ | 1 | Ca | 0.000021 | 0.000000 | No |
| Ni 231.604 {445} | ☒ | 3 | Fe | 0.000012 | 0.000000 | No |
| | | | Co | 0.000000 | 0.000000 | No |
| | | | Mo | 0.000000 | 0.000000 | No |
| Pb 216.999 {455} | ☒ | 2 | Al | 0.001241 | 0.000000 | No |
| | | | Na | 0.000000 | 0.000000 | No |
| Pb 220.353 {453} | ☒ | 3 | Si | 0.000000 | 0.000000 | No |
| | | | Al | 0.000001 | 0.000000 | No |
| | | | Fe | 0.000018 | 0.000000 | No |
| Pb 220.353 {153} | ☒ | 1 | Al | -0.000040 | 0.000000 | No |
| Sb 206.833 {463} | ☒ | 1 | Fe | 0.000009 | 0.000000 | No |
| Sb 217.581 {455} | ☒ | 3 | Fe | -0.000069 | 0.000000 | No |
| | | | V | 0.002070 | 0.000000 | No |
| | | | Pb | -0.001040 | 0.000000 | No |
| Se 196.090 {472} | ☒ | 1 | Fe | -0.000360 | 0.000000 | No |
| Se 206.279 {463} | ☒ | 1 | Fe | 0.001308 | 0.000000 | No |
| Tl 190.856 {476} | ☒ | 5 | Fe | 0.000024 | 0.000000 | No |
| | | | Be | -0.000013 | 0.000000 | No |
| | | | Ti | 0.000050 | 0.000000 | No |
| | | | Cr | 0.000251 | 0.000000 | No |
| | | | V | -0.003800 | 0.000000 | No |
| Tl 190.856 {477} | ☒ | 1 | Fe | -0.000048 | 0.000000 | No |
| V 290.882 {116} | ☒ | 1 | Fe | 0.000073 | 0.000000 | No |
| V 292.402 {115} | ☒ | 3 | Fe | 0.000020 | 0.000000 | No |
| | | | Cr | -0.000400 | 0.000000 | No |
| | | | Al | 0.000000 | 0.000000 | No |
| Zn 202.548 {466} | ☒ | 1 | Fe | -0.000239 | 0.000000 | No |
| Zn 206.200 {463} | ☒ | 1 | Fe | -0.000003 | 0.000000 | No |
| Zn 213.856 {457} | ☒ | 2 | Fe | 0.000167 | 0.000000 | No |
| | | | Cu | 0.007413 | 0.000000 | No |
| Y 324.228 {104}* | ☒ | None | | | | |
| Y 371.030 { 91}* | ☒ | None | | | | |
| Y 224.306 {451}* | ☒ | None | | | | |
| Na 588.995 { 57} | ☒ | 1 | Fe | 0.000106 | 0.000000 | No |
| Si 251.611 {134} | ☒ | 2 | Fe | -0.000105 | 0.000000 | No |
| | | | Mo | 0.005400 | 0.000000 | No |
| Ti 323.452 {104} | ☒ | 1 | Fe | 0.000036 | 0.000000 | No |
| Ti 334.941 {101} | ☒ | 1 | Fe | 0.000052 | 0.000000 | No |
| Sr 407.771 { 83} | ☒ | 1 | Fe | 0.000014 | 0.000000 | No |
| Sr 421.552 { 80} | ☒ | 1 | Fe | 0.000014 | 0.000000 | No |

CT LABORATORIES

delivering more than data from your environmental analyses

**ICP INTERELEMENT CORRECTION FACTORS (ANNUAL)**
**ICP ID NUMBER: TA ICAP6000 / ICAP6500**

| Element, Wavelength and Order | Use? | # IECs | IEC | k1 | k2 | Calc-in-fit? |
|---|---|---|---|---|---|---|
| Sn 189.989 {477} | ☒ | 1 | Fe | 0.000013 | 0.000000 | No |
| B 249.678 {135} | ☒ | 2 | Fe | 0.000001 | 0.000000 | No |
| | | | Co | 0.003970 | 0.000000 | No |
| B 249.773 {135} | ☒ | 1 | Fe | 0.000357 | 0.000000 | No |
| Li 670.784 { 50} | ☒ | 1 | Fe | 0.000011 | 0.000000 | No |
| K 766.490 { 44} | ☒ | 1 | Fe | 0.000216 | 0.000000 | No |
| P 213.618 {457} | ☒ | 1 | Fe | -0.000079 | 0.000000 | No |
| S 182.034 {485} | ☒ | 1 | Mg | 0.000100 | 0.000000 | No |
| Hg 184.950 {482} | ☒ | 1 | Fe | 0.000001 | 0.000000 | No |
| Ce 404.076 { 83} | ☒ | 1 | Fe | 0.000227 | 0.000000 | No |

CT LABORATORIES
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***ICP LINEAR RANGES (QUARTERLY)***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

ICP ID Number: TA SDG No.: 149511

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | M |
|---|---|---|---|
| Aluminum | 15.00 | 1000000 | P |
| Antimony | 15.00 | 10000 | P |
| Arsenic | 15.00 | 10000 | P |
| Barium | 15.00 | 10000 | P |
| Beryllium | 15.00 | 1000 | P |
| Boron | 15.00 | 1000 | P |
| Cadmium | 15.00 | 1000 | P |
| Calcium | 15.00 | 1000000 | P |
| Chromium | 15.00 | 100000 | P |
| Cobalt | 15.00 | 10000 | P |
| Copper | 15.00 | 100000 | P |
| Iron | 15.00 | 1000000 | P |
| Lead | 15.00 | 100000 | P |
| Lithium | 15.00 | 10000 | P |
| Magnesium | 15.00 | 1000000 | P |
| Manganese | 15.00 | 100000 | P |
| Molybdenum | 15.00 | 10000 | P |
| Nickel | 15.00 | 10000 | P |
| Potassium | 15.00 | 200000 | P |
| Selenium | 15.00 | 10000 | P |
| Silicon | 15.00 | 1000 | P |
| Silver | 15.00 | 100 | P |
| Sodium | 15.00 | 200000 | P |
| Strontium | 15.00 | 10000 | P |
| Thallium | 15.00 | 10000 | P |
| Tin | 15.00 | 10000 | P |
| Titanium | 15.00 | 1000 | P |
| Tungsten | 15.00 | 10000 | P |
| Vanadium | 15.00 | 10000 | P |
| Zinc | 15.00 | 100000 | P |

CT LABORATORIES
delivering more than data from your environmental analyses

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***PREPARATION LOG***

Lab Name: CT Laboratories  Project: HDR, INC-LONGHORN

Method: EPA 7470A  SDG No.: 149511

Preparation Batch #: 74586  Preparation Date/Time: 11/21/2019 / 10:02

| Lab Sample # | QC Type | Sample Description | Matrix | **Weight (g for solid/soil) or Volume (mL for liquid/aqueous)** |
|---|---|---|---|---|
| 356218 | Normal Sample | 46ADPT-TCLP | TCLP | 25.0 |
| 359026 | Method Blank | | LIQUID | 25.0 |
| 359027 | Lab Control Spike | | LIQUID | 25.0 |
| 359028 | Lab Duplicate | 46ADPT-TCLP | TCLP | 25.0 |
| 359029 | Matrix Spike | 46ADPT-TCLP | TCLP | 25.0 |
| 359030 | Matrix Spike Duplicate | 46ADPT-TCLP | TCLP | 25.0 |

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***PREPARATION LOG***

Lab Name: CT Laboratories  Project: HDR, INC-LONGHORN

Method: EPA 3010A  SDG No.: 149511

Preparation Batch #: 74587  Preparation Date/Time: 11/19/2019 / 14:44

| Lab Sample # | QC Type | Sample Description | Matrix | **Weight (g for solid/soil) or Volume (mL for liquid/aqueous)** |
|---|---|---|---|---|
| 356218 | Normal Sample | 46ADPT-TCLP | TCLP | 50.0 |
| 359031 | Method Blank | | LIQUID | 50.0 |
| 359032 | Lab Control Spike | | LIQUID | 50.0 |
| 359033 | Lab Duplicate | 46ADPT-TCLP | TCLP | 50.0 |
| 359034 | Matrix Spike | 46ADPT-TCLP | TCLP | 50.0 |
| 359035 | Matrix Spike Duplicate | 46ADPT-TCLP | TCLP | 50.0 |

CT LABORATORIES
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***ANALYSIS RUN LOG***

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN

Lab Code: CTL
SDG No.: 149511

Instrument ID Number: CETAC
Method Number: CV

Start & End Date: 11/22/2019 to 11/22/2019
Analytical Run #: 166905

| Sample Number | Analysis or QC Type | DF | Analysis Date/ Time | Al | Sb | As | Ba | Be | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Mo | Li | Ni | K | Se | Si | Ag | Na | Sr | Tl | Sn | W | V | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 363339 | ICV | 1.00 | 11/22 13:04 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363340 | ICB | 1.00 | 11/22 13:08 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363341 | CCV | 1.00 | 11/22 16:08 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363342 | CCB | 1.00 | 11/22 16:13 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 359027 | LCSW | 1.00 | 11/22 16:29 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 359026 | MBW | 1.00 | 11/22 16:33 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363343 | CCV | 1.00 | 11/22 16:37 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363344 | CCB | 1.00 | 11/22 16:41 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 356218 | Initial | 1.00 | 11/22 16:43 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 359029 | MSW | 1.00 | 11/22 16:51 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 359030 | MSDW | 1.00 | 11/22 16:53 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363345 | CCV | 1.00 | 11/22 17:05 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363346 | CCB | 1.00 | 11/22 17:09 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 359028 | DUP | 1.00 | 11/22 17:13 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363347 | CCV | 1.00 | 11/22 17:33 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 363348 | CCB | 1.00 | 11/22 17:37 | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |

CT LABORATORIES
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***ANALYSIS RUN LOG***

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Lab Code: CTL
SDG No.: 149511
Instrument ID Number: TJA
Method Number: P
Start & End Date: 11/20/2019 to 11/21/2019
Analytical Run #: 166766

| Sample Number | Analysis or QC Type | DF | Analysis Date/ Time | Al | Sb | As | Ba | Be | B | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Mo | Li | Ni | K | Se | Si | Ag | Na | Sr | Tl | Sn | W | V | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 363217 | ICV | 1.00 | 11/20 11:24 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363218 | ICVLL | 1.00 | 11/20 11:30 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | | | | | | | | |
| 363219 | ICB | 1.00 | 11/20 11:37 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363220 | ICSA | 1.00 | 11/20 11:55 | X | | X | X | | | X | X | X | | | X | X | X | | | | | | | X | | X | | | | | | | |
| 363221 | ICSAB | 1.00 | 11/20 12:02 | X | | X | X | | | X | X | X | | | X | X | X | | | | | | | X | | X | | | | | | | |
| 363222 | ICVLL | 1.00 | 11/20 12:15 | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 363223 | CCV1 | 1.00 | 11/21 05:56 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | | | | | | | | |
| 363224 | CCV2 | 1.00 | 11/21 06:02 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363225 | CCB | 1.00 | 11/21 06:08 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 359032 | LCSW | 1.00 | 11/21 07:13 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363226 | CCV1 | 1.00 | 11/21 07:19 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | | | | | | | | |
| 363227 | CCV2 | 1.00 | 11/21 07:25 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363228 | CCB | 1.00 | 11/21 07:31 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 359031 | MBW | 1.00 | 11/21 07:37 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 356218 | Initial | 1.00 | 11/21 07:44 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363229 | L | 5 | 11/21 07:51 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 359033 | DUP | 1.00 | 11/21 07:58 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 359034 | MSW | 1.00 | 11/21 08:05 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 359035 | MSDW | 1.00 | 11/21 08:12 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363230 | PDSW | 1.00 | 11/21 08:18 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363231 | CCV1 | 1.00 | 11/21 08:45 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | | | | | | | | |
| 363232 | CCV2 | 1.00 | 11/21 08:51 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |
| 363233 | CCB | 1.00 | 11/21 08:57 | | | X | X | | | X | | X | | | | X | | | | | | | | X | | X | | | | | | | |

# METALS
# RAW DATA
# DOCUMENTS

| Element, Wavelength and Order | Date of Fit | Date of Cal. | Type of Fit | Weighting | A0 | A1 | A2 | n (Exponent) | Correlation | Std Error of Est | Predicted MDL | Predicted MQL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ag 328.068 {103} | 11/25/2019 10:02:49 | 11/20/2019 11:12:00 | Linear | 1/Conc | -10.721687 | 3.759442 | 0.000000 | 1.000000 | 0.999684 | 0.128641 | 0.992587 | 3.308624 |
| Ag 338.289 {100} | 11/25/2019 10:02:49 | 11/20/2019 11:12:00 | Linear | 1/Conc | 0.000002 | 0.000001 | 0.000000 | 1.000000 | 0.999790 | 0.000000 | 6.250910 | 20.836365 |
| Al 167.079 {501} | 11/25/2019 10:02:49 | 11/20/2019 10:31:05 | Linear | 1/Conc | 0.000004 | 0.000002 | 0.000000 | 1.000000 | 0.998206 | 0.000001 | 0.737709 | 2.459030 |
| Al 308.215 {109} | 11/25/2019 10:02:49 | 11/20/2019 10:50:29 | Linear | 1/Var | 0.000056 | 0.000001 | 0.000000 | 1.000000 | 0.999177 | 0.000067 | 16.214807 | 54.049357 |
| Al 396.152 { 85} | 11/25/2019 10:02:49 | 11/20/2019 11:05:27 | Curvili | 1/Var | -0.000081 | 0.000002 | 0.000000 | 1.000000 | 0.999752 | 0.000103 | 5.705642 | 19.018807 |
| As 193.759 {474} | 11/25/2019 10:02:49 | 11/20/2019 10:31:05 | Linear | 1/Conc | 0.904166 | 0.278862 | 0.000000 | 1.000000 | 0.999491 | 0.039136 | 3.720895 | 12.402985 |
| As 197.262 {471} | 11/25/2019 10:02:49 | 11/20/2019 10:37:50 | Linear | 1/Conc | -0.000000 | 0.000001 | 0.000000 | 1.000000 | 0.999855 | 0.000000 | 5.645382 | 18.817941 |
| Ba 233.527 {445} | 11/25/2019 10:02:49 | 11/20/2019 10:31:06 | Linear | 1/Conc | 0.000002 | 0.000009 | 0.000000 | 1.000000 | 0.999454 | 0.000000 | 0.360799 | 1.202662 |
| Ba 455.403 { 74} | 11/25/2019 10:02:49 | 11/20/2019 10:37:50 | Curvili | 1/Conc | 0.000292 | 0.000069 | 0.000000 | 1.000000 | 0.999820 | 0.000005 | 0.194782 | 0.649272 |
| Ba 493.409 { 68} | 11/25/2019 10:02:49 | 11/20/2019 11:12:00 | Linear | 1/Var | 0.017438 | 0.000056 | 0.000000 | 1.000000 | 0.999460 | 0.000895 | 0.665757 | 2.219189 |
| Be 313.042 {108} | 11/25/2019 10:02:49 | 11/20/2019 10:31:06 | Linear | 1/Conc | -0.000057 | 0.000072 | 0.000000 | 1.000000 | 0.999879 | 0.000001 | 0.031460 | 0.104865 |
| Be 234.861 {144} | 11/25/2019 10:02:49 | 11/20/2019 10:31:06 | Linear | 1/Conc | -0.000002 | 0.000009 | 0.000000 | 1.000000 | 0.998894 | 0.000004 | 0.238568 | 0.795228 |
| Ca 315.887 {107} | 11/25/2019 10:02:49 | 11/20/2019 11:05:28 | Curvili | 1/Var | 0.000067 | 0.000001 | 0.000000 | 1.000000 | 0.999628 | 0.000044 | 5.272937 | 17.576455 |
| Ca 317.933 {106} | 11/25/2019 10:02:49 | 11/20/2019 11:05:28 | Linear | 1/Conc | 0.005371 | 0.000001 | 0.000000 | 1.000000 | 0.998790 | 0.000091 | 3.302106 | 11.007019 |
| Ca 393.366 { 86} | 11/25/2019 10:02:49 | 11/20/2019 10:31:07 | Linear | 1/Conc | 0.000221 | 0.000296 | 0.000000 | 1.000000 | 0.999974 | 0.000039 | 0.031856 | 0.106187 |
| Ca 396.847 { 85} | 11/25/2019 10:02:49 | 11/20/2019 10:37:50 | Linear | 1/Var | 0.000089 | 0.000142 | 0.000000 | 1.000000 | 0.999844 | 0.000034 | 0.065102 | 0.217008 |
| Cd 226.502 {449} | 11/25/2019 10:02:49 | 11/20/2019 10:31:07 | Linear | 1/Conc | 0.000002 | 0.000021 | 0.000000 | 1.000000 | 0.998764 | 0.000001 | 0.211805 | 0.706018 |
| Cd 228.802 {447} | 11/25/2019 10:02:49 | 11/20/2019 10:31:07 | Linear | 1/Conc | 0.000021 | 0.000041 | 0.000000 | 1.000000 | 0.998627 | 0.000002 | 0.182770 | 0.609234 |
| Co 228.616 {447} | 11/25/2019 10:02:49 | 11/20/2019 10:37:50 | Linear | 1/Conc | 0.000009 | 0.000020 | 0.000000 | 1.000000 | 0.999832 | 0.000001 | 0.266162 | 0.887205 |
| Co 238.892 {141} | 11/25/2019 10:02:49 | 11/20/2019 10:37:51 | Linear | 1/Conc | 0.000003 | 0.000002 | 0.000000 | 1.000000 | 0.999990 | 0.000000 | 0.664651 | 2.215505 |
| Cr 205.560 {464} | 11/25/2019 10:02:49 | 11/20/2019 10:44:34 | Curvili | 1/Conc | -0.000009 | 0.000011 | -0.000000 | 1.000000 | 0.999976 | 0.000001 | 0.316891 | 1.056303 |
| Cr 267.716 {126} | 11/25/2019 10:02:49 | 11/20/2019 10:37:51 | Linear | 1/Conc | 0.000000 | 0.000003 | 0.000000 | 1.000000 | 0.999861 | 0.000000 | 0.677858 | 2.259527 |
| Cu 223.008 {451} | 11/25/2019 10:02:49 | 11/20/2019 10:37:51 | Linear | 1/Conc | 0.000004 | 0.000004 | 0.000000 | 1.000000 | 0.999639 | 0.000001 | 1.352372 | 4.507906 |
| Cu 224.700 {450} | 11/25/2019 10:02:49 | 11/20/2019 10:44:34 | Linear | 1/Var | -32.187136 | 1.570908 | 0.000000 | 1.000000 | 0.996310 | 28.767278 | 0.574075 | 1.913584 |
| Cu 324.754 {104} | 11/25/2019 10:02:49 | 11/20/2019 10:44:34 | Linear | 1/Var | 0.002673 | 0.000002 | 0.000000 | 1.000000 | 0.999807 | 0.000065 | 3.296110 | 10.987033 |
| Cu 327.396 {103} | 11/25/2019 10:02:49 | 11/20/2019 10:37:52 | Linear | 1/Conc | 0.000042 | 0.000002 | 0.000000 | 1.000000 | 0.999315 | 0.000001 | 4.057298 | 13.524326 |
| Fe 234.349 {144} | 11/25/2019 10:02:49 | 11/20/2019 10:50:30 | Curvili | 1/Conc | 51.462619 | 0.608981 | -0.000000 | 1.000000 | 0.999991 | 1.699642 | 1.786272 | 5.954239 |
| Fe 239.562 {140} | 11/25/2019 10:02:49 | 11/20/2019 11:05:28 | Linear | 1/Var | 0.000004 | 0.000001 | 0.000000 | 1.000000 | 0.997470 | 0.000055 | 2.645304 | 8.817679 |
| Fe 259.940 {129} | 11/25/2019 10:02:49 | 11/20/2019 10:57:33 | Full Fit | 1/Conc | 0.000001 | 0.000002 | 0.000000 | 1.040000 | 0.999991 | 0.000017 | 2.266310 | 7.554367 |
| Mg 202.582 {466} | 11/25/2019 10:02:49 | 11/20/2019 11:05:28 | Curvili | 1/Conc | -0.000006 | 0.000002 | 0.000000 | 1.000000 | 0.999690 | 0.000066 | 2.448181 | 8.160602 |
| Mg 279.079 {121} | 11/25/2019 10:02:49 | 11/20/2019 11:05:28 | Curvili | 1/Conc | -0.335327 | 0.041644 | -0.000000 | 1.000000 | 0.999951 | 0.653871 | 19.055073 | 63.516910 |
| Mg 280.270 {120} | 11/25/2019 10:02:49 | 11/20/2019 10:37:52 | Linear | None | 0.000942 | 0.000032 | 0.000000 | 1.000000 | 0.999976 | 0.001333 | 0.032445 | 0.108151 |
| Mn 257.610 {131} | 11/25/2019 10:02:49 | 11/20/2019 10:37:53 | Curvili | 1/Conc | -0.000003 | 0.000012 | -0.000000 | 1.000000 | 0.999767 | 0.000002 | 0.084012 | 0.280041 |
| Mn 259.373 {130} | 11/25/2019 10:02:49 | 11/20/2019 10:44:35 | Curvili | 1/Var | -0.000001 | 0.000006 | -0.000000 | 1.000000 | 0.999998 | 0.000005 | 0.509900 | 1.699666 |
| Mo 202.030 {466} | 11/25/2019 10:02:49 | 11/20/2019 10:31:10 | Linear | 1/Var | 0.000006 | 0.000008 | 0.000000 | 1.000000 | 0.999451 | 0.000025 | 0.419192 | 1.397307 |
| Mo 203.844 {465} | 11/25/2019 10:02:49 | 11/20/2019 10:31:10 | Linear | 1/Var | 0.000011 | 0.000005 | 0.000000 | 1.000000 | 0.999458 | 0.000021 | 0.832639 | 2.775464 |
| Mo 204.598 {464} | 11/25/2019 10:02:49 | 11/20/2019 10:37:53 | Linear | 1/Var | 0.000011 | 0.000005 | 0.000000 | 1.000000 | 0.999840 | 0.000027 | 0.761798 | 2.539326 |
| Ni 221.647 {452} | 11/25/2019 10:02:49 | 11/20/2019 10:37:53 | Linear | 1/Var | 0.000001 | 0.000014 | 0.000000 | 1.000000 | 0.999981 | 0.000010 | 0.456797 | 1.522658 |
| Ni 231.604 {445} | 11/25/2019 10:02:49 | 11/20/2019 10:37:53 | Linear | 1/Conc | -0.000021 | 0.000013 | 0.000000 | 1.000000 | 0.999818 | 0.000001 | 0.475843 | 1.586143 |
| Pb 216.999 {455} | 11/25/2019 10:02:49 | 11/20/2019 10:44:35 | Full Fit | 1/Var | 0.000004 | 0.000001 | 0.000000 | 0.980000 | 0.999994 | 0.000006 | 3.794839 | 12.649464 |
| Pb 220.353 {453} | 11/25/2019 10:02:49 | 11/20/2019 10:31:11 | Linear | None | 0.000012 | 0.000003 | 0.000000 | 1.000000 | 0.999999 | 0.000002 | 2.497402 | 8.324672 |
| Pb 220.353 {153} | 11/25/2019 10:02:49 | 11/20/2019 10:44:35 | Linear | 1/Conc | 0.000001 | 0.000000 | 0.000000 | 1.000000 | 0.999878 | 0.000000 | 4.610251 | 15.367502 |
| Sb 206.833 {463} | 11/25/2019 10:02:49 | 11/20/2019 10:37:54 | Linear | 1/Var | 0.000006 | 0.000002 | 0.000000 | 1.000000 | 0.999865 | 0.000011 | 2.230584 | 7.435279 |
| Sb 217.581 {455} | 11/25/2019 10:02:49 | 11/20/2019 10:37:54 | Linear | 1/Conc | 0.000004 | 0.000002 | 0.000000 | 1.000000 | 0.999971 | 0.000000 | 2.500180 | 8.333935 |

| Element, Wavelength and Order | Status | Reslope | | QC Norm | |
|---|---|---|---|---|---|
| | | Slope | Y-int | Slope factor | Offset |
| Ag 328.068 {103} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ag 338.289 {100} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Al 167.079 {501} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Al 308.215 {109} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Al 396.152 { 85} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| As 193.759 {474} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| As 197.262 {471} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ba 233.527 {445} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ba 455.403 { 74} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ba 493.409 { 68} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Be 313.042 {108} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Be 234.861 {144} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ca 315.887 {107} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ca 317.933 {106} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ca 393.366 { 86} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ca 396.847 { 85} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cd 226.502 {449} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cd 228.802 {447} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Co 228.616 {447} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Co 238.892 {141} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cr 205.560 {464} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cr 267.716 {126} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cu 223.008 {451} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cu 224.700 {450} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cu 324.754 {104} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Cu 327.396 {103} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Fe 234.349 {144} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Fe 239.562 {140} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Fe 259.940 {129} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mg 202.582 {466} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mg 279.079 {121} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mg 280.270 {120} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mn 257.610 {131} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mn 259.373 {130} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mo 202.030 {466} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mo 203.844 {465} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Mo 204.598 {464} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ni 221.647 {452} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Ni 231.604 {445} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Pb 216.999 {455} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Pb 220.353 {453} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Pb 220.353 {153} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Sb 206.833 {463} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| Sb 217.581 {455} | OK. | 1.000000 | 0.000000 | 1 | 0 |

| Element, Wavelength and Order | Date of Fit | Date of Cal. | Type of Fit | Weighting | A0 | A1 | A2 | n (Exponent) | Correlation | Std Error of Est | Predicted MDL | Predicted MQL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Se 196.090 {472} | 11/25/2019 10:02:49 | 11/20/2019 10:31:11 | Linear | None | 0.000004 | 0.000001 | 0.000000 | 1.000000 | 0.999916 | 0.000005 | 4.032290 | 13.440965 |
| Se 203.985 {465} | 11/25/2019 10:02:49 | 11/20/2019 10:31:12 | Linear | 1/Conc | -0.000001 | 0.000001 | 0.000000 | 1.000000 | 0.999091 | 0.000000 | 6.341972 | 21.139907 |
| Se 206.279 {463} | 11/25/2019 10:02:49 | 11/20/2019 10:37:54 | Curvili | 1/Conc | -0.000003 | 0.000000 | 0.000000 | 1.000000 | 0.999981 | 0.000000 | 22.084522 | 73.615072 |
| Tl 190.856 {476} | 11/25/2019 10:02:49 | 11/20/2019 10:37:54 | Linear | 1/Conc | 0.000003 | 0.000002 | 0.000000 | 1.000000 | 0.999887 | 0.000000 | 1.871892 | 6.239641 |
| Tl 190.856 {477} | 11/25/2019 10:02:49 | 11/20/2019 10:37:54 | Linear | 1/Conc | 0.000002 | 0.000001 | 0.000000 | 1.000000 | 0.999953 | 0.000000 | 3.536069 | 11.786896 |
| V 290.882 {116} | 11/25/2019 10:02:49 | 11/20/2019 10:37:55 | Linear | 1/Conc | 0.000012 | 0.000002 | 0.000000 | 1.000000 | 0.999992 | 0.000000 | 2.925235 | 9.750784 |
| V 292.402 {115} | 11/25/2019 10:02:49 | 11/20/2019 10:37:55 | Linear | 1/Conc | 0.000002 | 0.000007 | 0.000000 | 1.000000 | 0.999813 | 0.000002 | 0.516099 | 1.720330 |
| Zn 206.200 {463} | 11/25/2019 10:02:49 | 11/20/2019 10:44:35 | Curvili | 1/Conc | 0.000001 | 0.000019 | -0.000000 | 1.000000 | 0.999996 | 0.000002 | 0.235037 | 0.783457 |
| Zn 213.856 {457} | 11/25/2019 10:02:49 | 11/20/2019 10:31:13 | Linear | 1/Conc | 0.000020 | 0.000039 | 0.000000 | 1.000000 | 0.999721 | 0.000004 | 0.121355 | 0.404517 |
| Y 224.306 {450}* | 11/25/2019 10:02:49 | 11/20/2019 09:41:36 | Linear | 1/Conc | 0.000000 | 0.000000 | 0.000000 | 1.000000 | 0.000000 | 0.000000 | -1.000000 | -1.000000 |
| Y 324.228 {104}* | 11/25/2019 10:02:49 | 11/20/2019 09:41:36 | Linear | 1/Conc | 0.000000 | 0.000000 | 0.000000 | 1.000000 | 0.000000 | 0.000000 | -1.000000 | -1.000000 |
| Y 371.030 { 91}* | 11/25/2019 10:02:49 | 11/20/2019 09:41:36 | Linear | 1/Conc | 0.000000 | 0.000000 | 0.000000 | 1.000000 | 0.000000 | 0.000000 | -1.000000 | -1.000000 |
| Na 588.995 { 57} | 11/25/2019 10:02:49 | 11/20/2019 10:37:55 | Linear | None | 0.006899 | 0.000010 | 0.000000 | 1.000000 | 0.999943 | 0.000869 | 3.492393 | 11.641310 |
| Na 589.592 { 57} | 11/25/2019 10:02:49 | 11/20/2019 11:05:28 | Linear | 1/Var | 0.000083 | 0.000006 | 0.000000 | 1.000000 | 0.999665 | 0.000096 | 5.031073 | 16.770244 |
| Si 251.611 {134} | 11/25/2019 10:02:49 | 11/20/2019 11:05:28 | Linear | 1/Var | 15.333740 | 0.167946 | 0.000000 | 1.000000 | 0.999694 | 18.415269 | 7.849349 | 26.164497 |
| Ti 323.452 {104} | 11/25/2019 10:02:49 | 11/20/2019 10:37:55 | Linear | 1/Conc | 0.000296 | 0.000010 | 0.000000 | 1.000000 | 0.999869 | 0.000001 | 0.815692 | 2.718972 |
| Ti 334.941 {101} | 11/25/2019 10:02:49 | 11/20/2019 10:37:56 | Linear | 1/Conc | 0.000005 | 0.000007 | 0.000000 | 1.000000 | 0.999878 | 0.000001 | 0.762274 | 2.540912 |
| Sr 407.771 { 83} | 11/25/2019 10:02:49 | 11/20/2019 10:37:56 | Linear | 1/Conc | 0.000050 | 0.000177 | 0.000000 | 1.000000 | 0.999984 | 0.000004 | 0.069287 | 0.230957 |
| Sr 421.552 { 80} | 11/25/2019 10:02:49 | 11/20/2019 10:37:56 | Linear | 1/Conc | -0.000034 | 0.000172 | 0.000000 | 1.000000 | 0.999961 | 0.000006 | 0.070953 | 0.236510 |
| Sn 189.989 {477} | 11/25/2019 10:02:49 | 11/20/2019 10:37:56 | Linear | 1/Conc | 0.000002 | 0.000003 | 0.000000 | 1.000000 | 0.999902 | 0.000001 | 1.256155 | 4.187182 |
| B 249.678 {135} | 11/25/2019 10:02:49 | 11/20/2019 10:37:56 | Linear | 1/Conc | 0.000001 | 0.000002 | 0.000000 | 1.000000 | 0.999988 | 0.000000 | 1.330032 | 4.433439 |
| B 249.773 {135} | 11/25/2019 10:02:49 | 11/20/2019 10:37:56 | Linear | 1/Var | 0.000005 | 0.000003 | 0.000000 | 1.000000 | 0.999997 | 0.000006 | 0.562865 | 1.876216 |
| Li 670.784 { 50} | 11/25/2019 10:02:49 | 11/20/2019 10:37:57 | Linear | 1/Conc | -0.000060 | 0.000034 | 0.000000 | 1.000000 | 0.999976 | 0.000003 | 0.934681 | 3.115604 |
| K 766.490 { 44} | 11/25/2019 10:02:49 | 11/20/2019 11:05:29 | Curvili | 1/Conc | -0.000029 | 0.000002 | 0.000000 | 1.000000 | 1.000000 | 0.000002 | 18.885878 | 62.952927 |
| P 213.618 {457} | 11/25/2019 10:02:49 | 11/20/2019 10:37:57 | Linear | 1/Conc | -0.000001 | 0.000000 | 0.000000 | 1.000000 | 0.999969 | 0.000000 | 3.928442 | 13.094805 |
| S 182.034 {485} | 11/25/2019 10:02:49 | 11/20/2019 11:05:29 | Curvili | 1/Conc | 0.000003 | 0.000001 | 0.000000 | 1.000000 | 0.999999 | 0.000001 | 4.594036 | 15.313454 |
| Hg 184.950 {482} | 11/25/2019 10:02:49 | 11/20/2019 10:31:15 | Linear | 1/Conc | 0.000009 | 0.000004 | 0.000000 | 1.000000 | 1.000000 | 0.000000 | 0.870348 | 2.901160 |
| Ce 404.076 { 83} | 11/25/2019 10:02:49 | 11/20/2019 10:31:15 | Linear | 1/Conc | 0.000047 | 0.000001 | 0.000000 | 1.000000 | 1.000000 | 0.000000 | 14.729147 | 49.097156 |

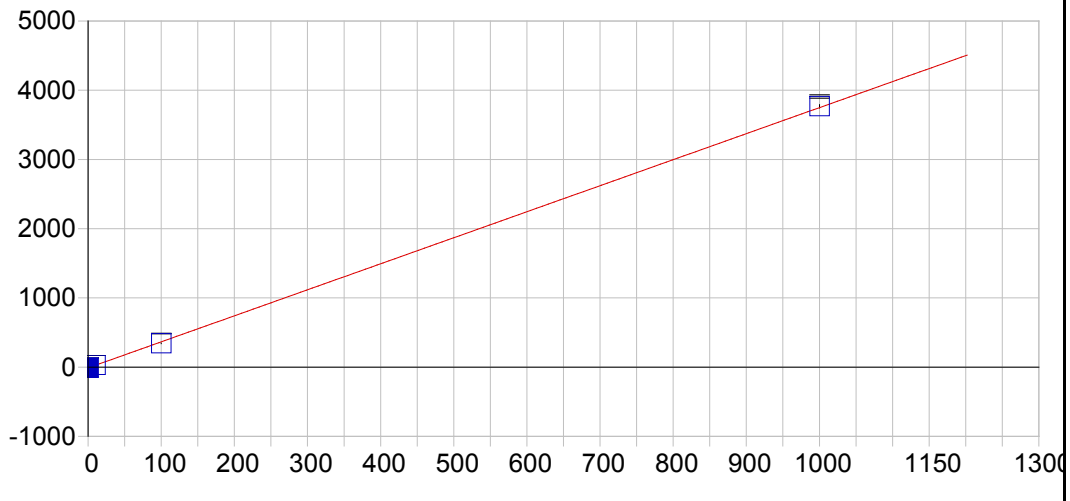
| | Element, Wavelength and Order | Status | Reslope | | QC Norm | |
|---|---|---|---|---|---|---|
| | | | Slope | Y-int | Slope factor | Offset |
| | Se 196.090 {472} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Se 203.985 {465} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Se 206.279 {463} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Tl 190.856 {476} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Tl 190.856 {477} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | V 290.882 {116} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | V 292.402 {115} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Zn 206.200 {463} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Zn 213.856 {457} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Y 224.306 {450}* | Warnin | 1.000000 | 0.000000 | 1 | 0 |
| | Y 324.228 {104}* | Warnin | 1.000000 | 0.000000 | 1 | 0 |
| | Y 371.030 { 91}* | Warnin | 1.000000 | 0.000000 | 1 | 0 |
| | Na 588.995 { 57} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Na 589.592 { 57} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Si 251.611 {134} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Ti 323.452 {104} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Ti 334.941 {101} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Sr 407.771 { 83} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Sr 421.552 { 80} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Sn 189.989 {477} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | B 249.678 {135} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | B 249.773 {135} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Li 670.784 { 50} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | K 766.490 { 44} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | P 213.618 {457} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | S 182.034 {485} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Hg 184.950 {482} | OK. | 1.000000 | 0.000000 | 1 | 0 |
| | Ce 404.076 { 83} | OK. | 1.000000 | 0.000000 | 1 | 0 |

| Element, Wavelength and Order | Use? | # IECs | IEC | k1 | k2 | Calc-in-fit? |
|---|---|---|---|---|---|---|
| Ag 328.068 {103} | ☒ | 2 | Fe | -0.000073 | 0.000000 | No |
| | | | Ce | 0.000000 | 0.000000 | No |
| Ag 338.289 {100} | ☒ | 1 | Fe | 0.000558 | 0.000000 | No |
| Al 167.079 {501} | ☒ | None | | | | |
| Al 308.215 {109} | ☒ | None | | | | |
| Al 396.152 { 85} | ☒ | None | | | | |
| As 193.759 {474} | ☒ | 4 | Al | 0.000470 | 0.000000 | No |
| | | | Mn | -0.000114 | 0.000000 | No |
| | | | Ni | -0.000722 | 0.000000 | No |
| | | | Cr | 0.000734 | 0.000000 | No |
| As 197.262 {471} | ☒ | 2 | Al | 0.000096 | 0.000000 | No |
| | | | V | 0.006278 | 0.000000 | No |
| Ba 233.527 {445} | ☒ | 3 | Fe | 0.000010 | 0.000000 | No |
| | | | V | 0.000000 | 0.000000 | No |
| | | | Cr | 0.000118 | 0.000000 | No |
| Ba 455.403 { 74} | ☒ | 1 | Fe | 0.000002 | 0.000000 | No |
| Ba 493.409 { 68} | ☒ | 1 | Fe | 0.000102 | 0.000000 | No |
| Be 313.042 {108} | ☒ | 4 | Fe | 0.000000 | 0.000000 | No |
| | | | Ti | -0.000006 | 0.000000 | No |
| | | | V | 0.000050 | 0.000000 | No |
| | | | Ni | 0.000000 | 0.000000 | No |
| Be 234.861 {144} | ☒ | 1 | Fe | 0.000101 | 0.000000 | No |
| Ca 315.887 {107} | ☒ | None | | | | |
| Ca 317.933 {106} | ☒ | None | | | | |
| Ca 393.366 { 86} | ☒ | 1 | Cu | 0.000000 | 0.000000 | No |
| Ca 396.847 { 85} | ☒ | None | | | | |
| Cd 226.502 {449} | ☒ | 1 | Fe | 0.000163 | 0.000000 | No |
| Cd 228.802 {447} | ☒ | 1 | Fe | 0.000100 | 0.000000 | No |
| Co 228.616 {447} | ☒ | 3 | Fe | -0.000001 | 0.000000 | No |
| | | | Ti | 0.002980 | 0.000000 | No |
| | | | Ba | -0.001086 | 0.000000 | No |
| Co 238.892 {141} | ☒ | 1 | Fe | 0.000226 | 0.000000 | No |
| Cr 205.560 {464} | ☒ | 1 | Fe | -0.000004 | 0.000000 | No |
| Cr 267.716 {126} | ☒ | 4 | Fe | -0.000001 | 0.000000 | No |
| | | | Mn | 0.000234 | 0.000000 | No |
| | | | Ti | 0.000100 | 0.000000 | No |
| | | | V | -0.000074 | 0.000000 | No |
| Cu 223.008 {451} | ☒ | 1 | Fe | 0.000008 | 0.000000 | No |
| Cu 224.700 {450} | ☒ | 2 | Fe | 0.000039 | 0.000000 | No |
| | | | Ni | -0.007040 | 0.000000 | No |
| Cu 324.754 {104} | ☒ | 1 | Fe | -0.000549 | 0.000000 | No |
| Cu 327.396 {103} | ☒ | 2 | Fe | 0.000002 | 0.000000 | No |
| | | | Mo | -0.000590 | 0.000000 | No |
| Fe 234.349 {144} | ☒ | None | | | | |

| Element, Wavelength and Order | Use? | # IECs | IEC | k1 | k2 | Calc-in-fit? |
|---|---|---|---|---|---|---|
| Fe 239.562 {140} | ☒ | None | | | | |
| Fe 259.940 {129} | ☒ | None | | | | |
| Mg 202.582 {466} | ☒ | None | | | | |
| Mg 279.079 {121} | ☒ | None | | | | |
| Mg 280.270 {120} | ☒ | None | | | | |
| Mn 257.610 {131} | ☒ | 1 | Al | 0.000004 | 0.000000 | No |
| Mn 259.373 {130} | ☒ | 1 | Mg | 0.001300 | 0.000000 | No |
| Mo 202.030 {466} | ☒ | 1 | Fe | -0.000016 | 0.000000 | No |
| Mo 203.844 {465} | ☒ | 1 | Fe | -0.000045 | 0.000000 | No |
| Mo 204.598 {464} | ☒ | 1 | Fe | 0.000099 | 0.000000 | No |
| Ni 221.647 {452} | ☒ | 1 | Ca | 0.000021 | 0.000000 | No |
| Ni 231.604 {445} | ☒ | 6 | Fe | -0.000063 | 0.000000 | No |
| | | | Co | 0.001774 | 0.000000 | No |
| | | | Mo | 0.000000 | 0.000000 | No |
| | | | Al | 0.000003 | 0.000000 | No |
| | | | Mn | 0.000089 | 0.000000 | No |
| | | | Be | -0.001657 | 0.000000 | No |
| Pb 216.999 {455} | ☒ | 2 | Al | 0.001371 | 0.000000 | No |
| | | | Na | 0.000000 | 0.000000 | No |
| Pb 220.353 {453} | ☒ | 6 | Si | 0.000000 | 0.000000 | No |
| | | | Al | -0.000002 | 0.000000 | No |
| | | | Mn | 0.000075 | 0.000000 | No |
| | | | Ni | 0.000106 | 0.000000 | No |
| | | | Mo | -0.000635 | 0.000000 | No |
| | | | V | -0.000088 | 0.000000 | No |
| Pb 220.353 {153} | ☒ | 2 | Fe | -0.000002 | 0.000000 | No |
| | | | Al | -0.000004 | 0.000000 | No |
| Sb 206.833 {463} | ☒ | 1 | Fe | 0.000108 | 0.000000 | No |
| Sb 217.581 {455} | ☒ | 3 | Fe | -0.000042 | 0.000000 | No |
| | | | Ni | 0.000133 | 0.000000 | No |
| | | | V | 0.000000 | 0.000000 | No |
| Se 196.090 {472} | ☒ | 2 | Fe | -0.000103 | 0.000000 | No |
| | | | Mn | 0.000304 | 0.000000 | No |
| Se 203.985 {465} | ☒ | 1 | Fe | -0.000160 | 0.000000 | No |
| Se 206.279 {463} | ☒ | 1 | Fe | 0.001816 | 0.000000 | No |
| Tl 190.856 {476} | ☒ | 8 | Fe | -0.000134 | 0.000000 | No |
| | | | Be | -0.000013 | 0.000000 | No |
| | | | Ti | -0.000379 | 0.000000 | No |
| | | | V | 0.000000 | 0.000000 | No |
| | | | Ce | 0.000000 | 0.000000 | No |
| | | | Mn | 0.000068 | 0.000000 | No |
| | | | Ni | -0.000070 | 0.000000 | No |
| | | | Co | 0.001787 | 0.000000 | No |
| Tl 190.856 {477} | ☒ | 2 | Fe | -0.000149 | 0.000000 | No |

| Element, Wavelength and Order | Use? | # IECs | IEC | k1 | k2 | Calc-in-fit? |
|---|---|---|---|---|---|---|
| | | | Cr | 0.000884 | 0.000000 | No |
| V 290.882 {116} | ☒ | 1 | Fe | 0.000207 | 0.000000 | No |
| V 292.402 {115} | ☒ | 5 | Fe | 0.000018 | 0.000000 | No |
| | | | Cr | 0.003071 | 0.000000 | No |
| | | | Al | 0.000000 | 0.000000 | No |
| | | | Ti | 0.000420 | 0.000000 | No |
| | | | Mo | -0.003753 | 0.000000 | No |
| Zn 206.200 {463} | ☒ | 1 | Fe | 0.000026 | 0.000000 | No |
| Zn 213.856 {457} | ☒ | 9 | Fe | 0.000172 | 0.000000 | No |
| | | | Cu | 0.000000 | 0.000000 | No |
| | | | Al | 0.000000 | 0.000000 | No |
| | | | Mn | 0.000094 | 0.000000 | No |
| | | | Ni | 0.005870 | 0.000000 | No |
| | | | Ti | -0.000307 | 0.000000 | No |
| | | | Mg | 0.000004 | 0.000000 | No |
| | | | Mo | 0.000851 | 0.000000 | No |
| | | | Ca | 0.000000 | 0.000000 | No |
| Y 224.306 {450}* | ☒ | None | | | | |
| Y 324.228 {104}* | ☒ | None | | | | |
| Y 371.030 { 91}* | ☒ | None | | | | |
| Na 588.995 { 57} | ☒ | 1 | Fe | 0.000106 | 0.000000 | No |
| Na 589.592 { 57} | ☒ | 1 | Fe | -0.000003 | 0.000000 | No |
| Si 251.611 {134} | ☒ | 4 | Fe | -0.000135 | 0.000000 | No |
| | | | Mo | 0.028793 | 0.000000 | No |
| | | | Ti | 0.028118 | 0.000000 | No |
| | | | Sn | 0.022103 | 0.000000 | No |
| Ti 323.452 {104} | ☒ | 6 | Fe | 0.000000 | 0.000000 | No |
| | | | Ce | -0.000795 | 0.000000 | No |
| | | | Mn | 0.000074 | 0.000000 | No |
| | | | Ni | 0.000273 | 0.000000 | No |
| | | | Cr | 0.000125 | 0.000000 | No |
| | | | V | 0.000477 | 0.000000 | No |
| Ti 334.941 {101} | ☒ | 1 | Fe | 0.000070 | 0.000000 | No |
| Sr 407.771 { 83} | ☒ | 1 | Fe | 0.000015 | 0.000000 | No |
| Sr 421.552 { 80} | ☒ | 2 | Ca | 0.000013 | 0.000000 | No |
| | | | Al | 0.000025 | 0.000000 | No |
| Sn 189.989 {477} | ☒ | 1 | Fe | 0.000047 | 0.000000 | No |
| B 249.678 {135} | ☒ | 1 | Fe | -0.000036 | 0.000000 | No |
| B 249.773 {135} | ☒ | 1 | Fe | 0.000386 | 0.000000 | No |
| Li 670.784 { 50} | ☒ | 1 | Fe | 0.000016 | 0.000000 | No |
| K 766.490 { 44} | ☒ | 1 | Fe | 0.000233 | 0.000000 | No |
| P 213.618 {457} | ☒ | 1 | Fe | -0.000079 | 0.000000 | No |
| S 182.034 {485} | ☒ | 2 | Mn | 0.002145 | 0.000000 | No |
| | | | Fe | -0.000280 | 0.000000 | No |

| | Element, Wavelength and Order | Use? | # IECs | IEC | k1 | k2 | Calc-in-fit? |
|---|---|---|---|---|---|---|---|
| | Hg 184.950 {482} | ☒ | 1 | Fe | 0.000001 | 0.000000 | No |
| | Ce 404.076 { 83} | ☒ | 1 | Fe | 0.000227 | 0.000000 | No |

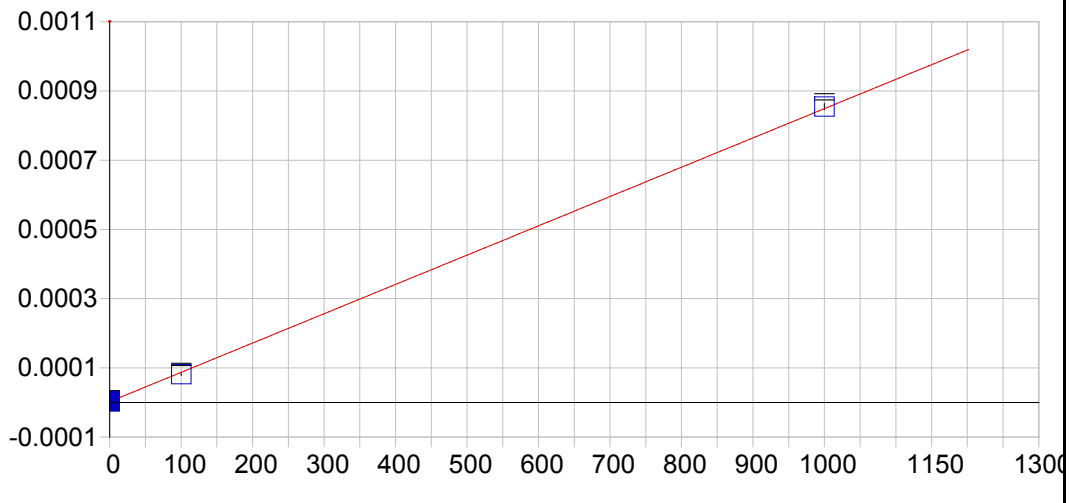



**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -10.721687 | Re-Slope: | 1.000000 |
| A1 (Gain): | 3.759442 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999684 | Status: | OK. |
| Std Error of Est: | 0.128641 | | |
| Predicted MDL: | 0.992587 | | |
| Predicted MQL: | 3.308624 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00045 | .000 | .000 | -10.720 | 2.91 | 1 |
| CalStd5=10 | 10.000 | 11.002 | 1.00 | 10.0 | 30.640 | 2.43 | 1 |
| CalStd8=100 | 100.00 | 94.268 | -5.73 | -5.73 | 343.67 | 4.08 | 1 |
| CalStd3=1 | 1.0000 | .50318 | -.497 | -49.7 | -8.8300 | 5.22 | 1 |
| Ag Ba 1000, | 1000.0 | 1005.2 | 5.23 | .523 | 3768.4 | 23.1 | 1 |

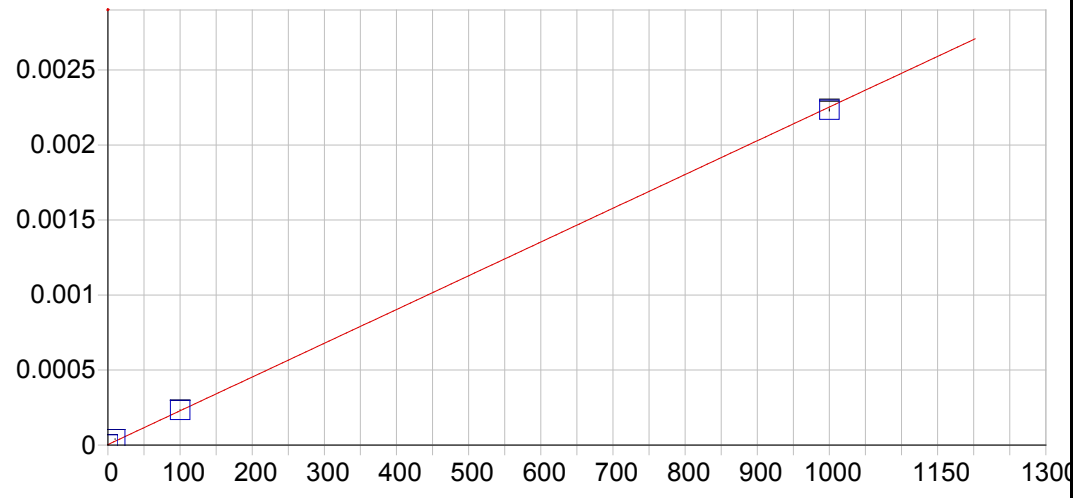



**Ag 338.289 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000002 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999790 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 6.250910 | | |
| Predicted MQL: | 20.836365 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00583 | .006 | .000 | .00000 | .000 | 1 |
| CalStd8=100 | 100.00 | 93.522 | -6.48 | -6.48 | .00008 | .000 | 1 |
| Ag Ba 1000, | 1000.0 | 1006.5 | 6.48 | .648 | .00085 | .000 | 1 |

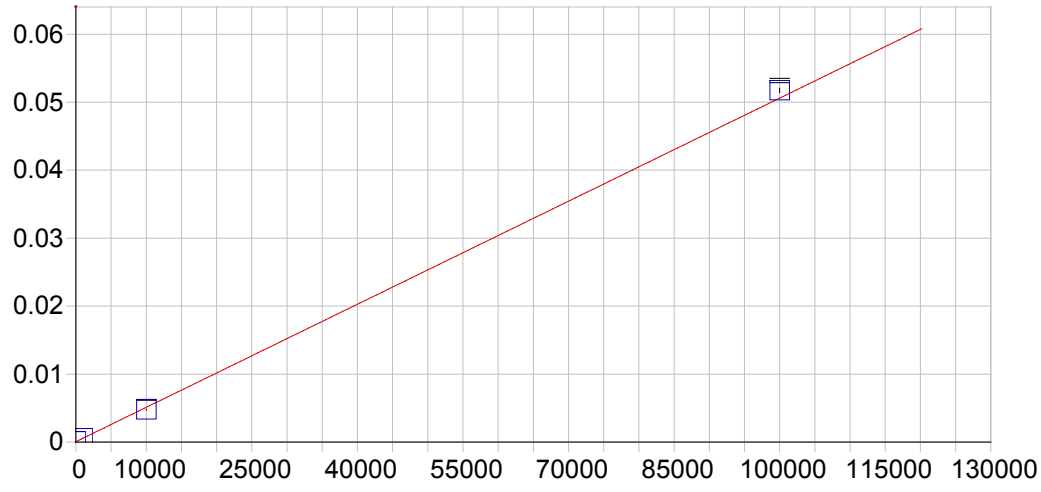



**Al 167.079 {501}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000004 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998206 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.737709 | | |
| Predicted MQL: | 2.459030 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00636 | -.006 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 991.50 | -8.50 | -.850 | .00223 | .000 | 1 |
| CalStd5=10 | 10.000 | 16.218 | 6.22 | 62.2 | .00004 | .000 | 1 |
| CalStd8=100 | 100.00 | 102.28 | 2.28 | 2.28 | .00023 | .000 | 1 |

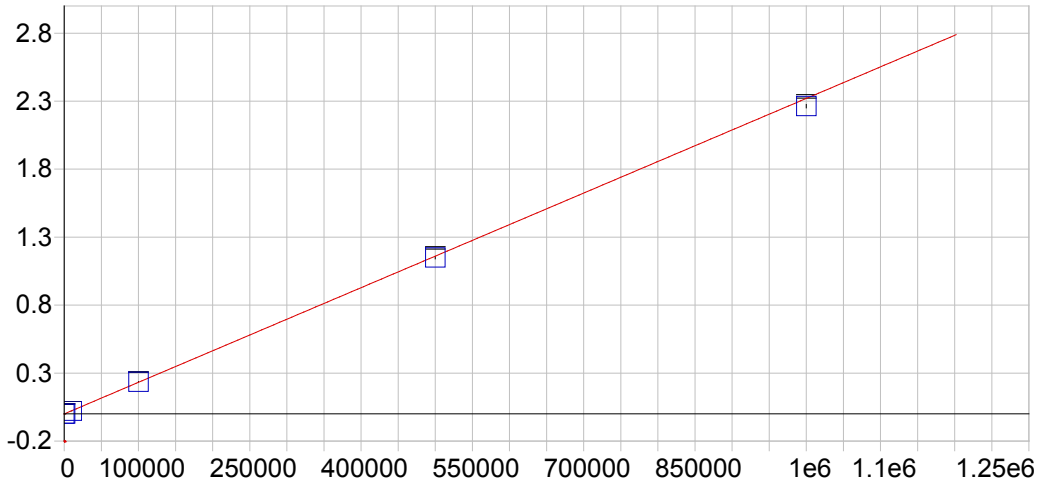



**Al 308.215 {109}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000056 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999177 | Status: | OK. |
| Std Error of Est: | 0.000067 | | |
| Predicted MDL: | 16.214807 | | |
| Predicted MQL: | 54.049357 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | 51.047 | 51.0 | .000 | .00008 | .000 | 1 |
| CalStd10=10 | 10000. | 9353.1 | -647. | -6.47 | .00478 | .000 | 1 |
| CalStd9=100 | 1000.0 | 968.24 | -31.8 | -3.18 | .00055 | .000 | 1 |
| CalStd13=10 | 100000. | 102270. | 2270. | 2.27 | .05175 | .000 | 1 |

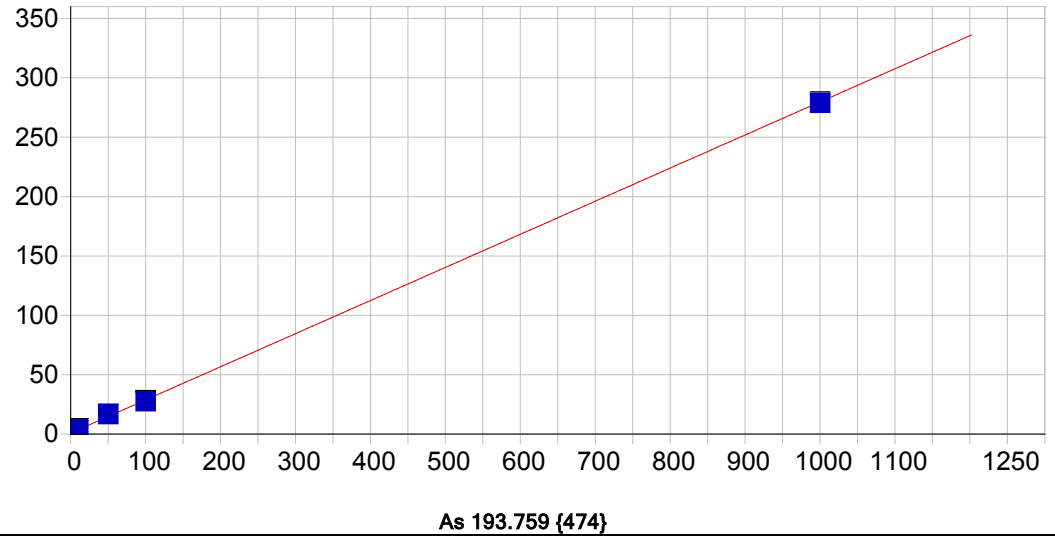



**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000081 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999752 | Status: | OK. |
| Std Error of Est: | 0.000103 | | |
| Predicted MDL: | 5.705642 | | |
| Predicted MQL: | 19.018807 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | 11.429 | 11.4 | .000 | -.00005 | .000 | 1 |
| CalStd14=50 | 500000. | 495490. | -4510. | -.902 | 1.1496 | .009 | 1 |
| CalStd13=10 | 100000. | 101730. | 1730. | 1.73 | .23595 | .001 | 1 |
| CalStd10=10 | 10000. | 9509.5 | -490. | -4.90 | .02198 | .000 | 1 |
| CalStd9=100 | 1000.0 | 960.77 | -39.2 | -3.92 | .00215 | .000 | 1 |
| CalibStd15= | 1000000. | 975450. | -24500. | -2.45 | 2.2632 | .013 | 1 |

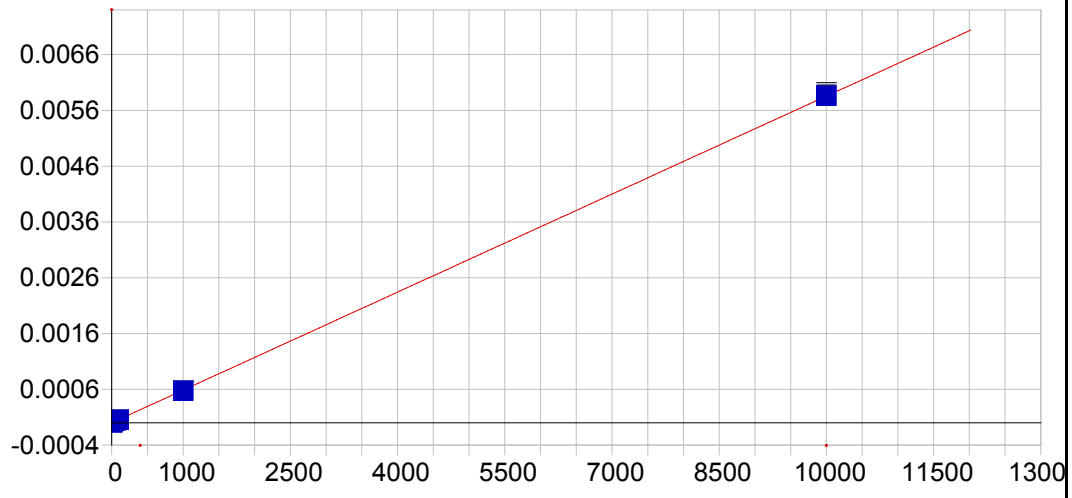



**As 193.759 {474}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.904166 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.278862 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999491 | Status: | OK. |
| Std Error of Est: | 0.039136 | | |
| Predicted MDL: | 3.720895 | | |
| Predicted MQL: | 12.402985 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00181 | -.002 | .000 | .90366 | .201 | 1 |
| CalStd9=100 | 1000.0 | 996.63 | -3.37 | -.337 | 278.93 | .854 | 1 |
| CalStd7=50 | 50.000 | 56.716 | 6.72 | 13.4 | 16.729 | .241 | 1 |
| CalStd5=10 | 10.000 | 10.930 | .930 | 9.30 | 3.9551 | .576 | 1 |
| CalStd8=100 | 100.00 | 95.720 | -4.28 | -4.28 | 27.607 | .919 | 1 |

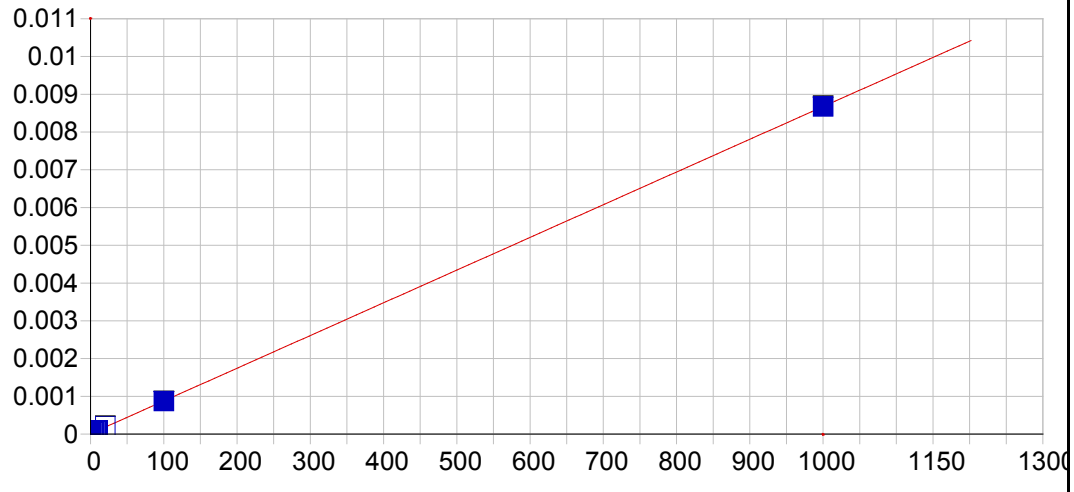



**As 197.262 {471}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999855 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 5.645382 | | |
| Predicted MQL: | 18.817941 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00402 | -.004 | .000 | -.00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 981.20 | -18.8 | -1.88 | .00058 | .000 | 1 |
| CalStd7=50 | 50.000 | 60.516 | 10.5 | 21.0 | .00004 | .000 | 1 |
| CalStd5=10 | 10.000 | 12.440 | 2.44 | 24.4 | .00001 | .000 | 1 |
| CalStd8=100 | 100.00 | 96.574 | -3.43 | -3.43 | .00006 | .000 | 1 |
| CalStd10=10 | 10000. | 10009. | 9.35 | .093 | .00590 | .000 | 1 |

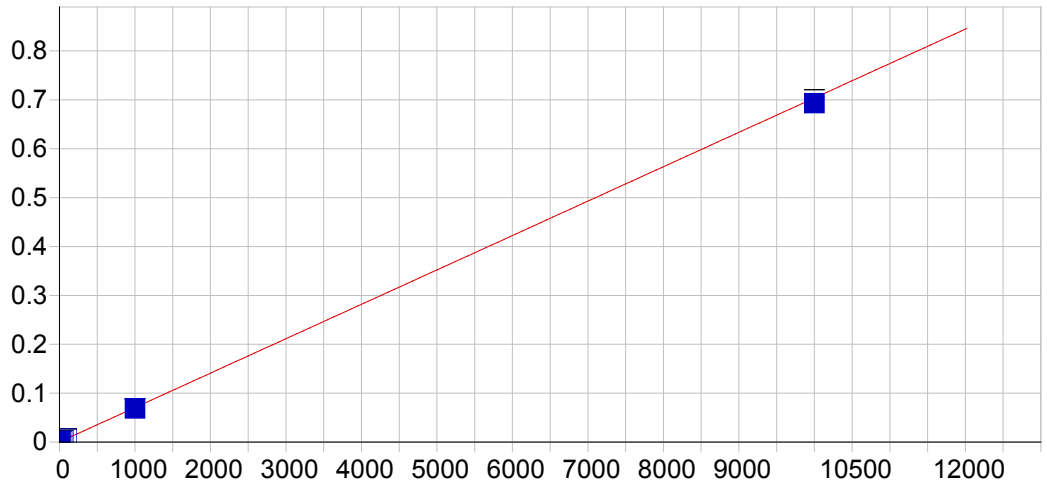



**Ba 233.527 {445}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | None |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000011 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000009 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999989 | Status: | OK. |
| Std Error of Est: | 0.000016 | | |
| Predicted MDL: | 0.363097 | | |
| Predicted MQL: | 1.210324 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -1.0351 | -1.04 | .000 | .00000 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.317 | .317 | 3.17 | .00010 | .000 | 1 |
| CalStd6=20 | 20.000 | 23.678 | 3.68 | 18.4 | .00022 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.218 | -.782 | -.782 | .00087 | .000 | 1 |
| CalStd4=5 | 5.0000 | 3.7914 | -1.21 | -24.2 | .00004 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1000.0 | .008 | .001 | .00868 | .000 | 1 |
| CalStd3=1 | 1.0000 | .02253 | -.977 | -97.7 | .00001 | .000 | 1 |

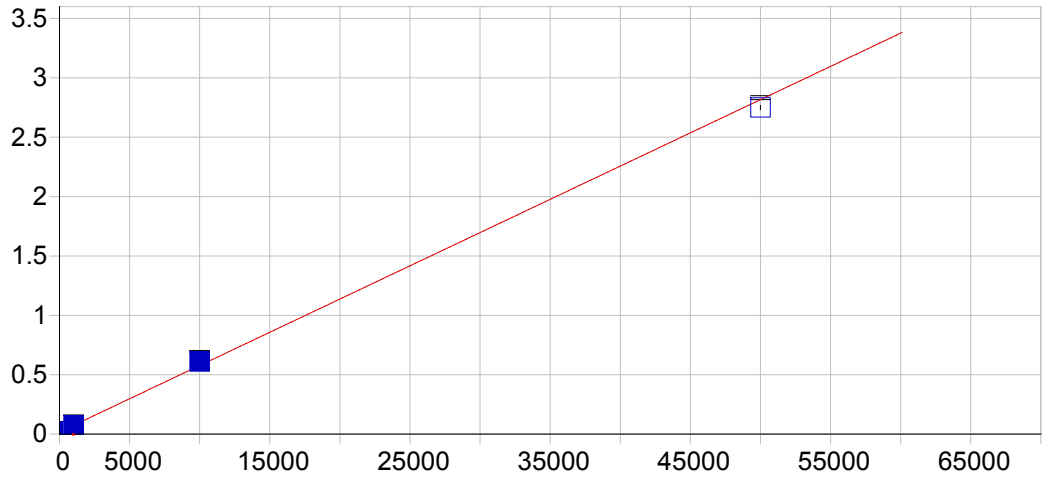



**Ba 455.403 { 74}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000306 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000070 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.996863 | Status: | OK. |
| Std Error of Est: | 0.000057 | | |
| Predicted MDL: | 0.191725 | | |
| Predicted MQL: | 0.639082 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.20968 | -.210 | .000 | .00029 | .000 | 1 |
| CalStd7=50 | 50.000 | 60.276 | 10.3 | 20.6 | .00455 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.654 | .654 | 6.54 | .00106 | .000 | 1 |
| CalStd6=20 | 20.000 | 23.746 | 3.75 | 18.7 | .00198 | .000 | 1 |
| CalStd8=100 | 100.00 | 96.106 | -3.89 | -3.89 | .00707 | .000 | 1 |
| CalStd4=5 | 5.0000 | 4.6066 | -.393 | -7.87 | .00063 | .000 | 1 |
| CalStd9=100 | 1000.0 | 967.99 | -32.0 | -3.20 | .06842 | .000 | 1 |
| CalStd3=1 | 1.0000 | .96473 | -.035 | -3.53 | .00037 | .000 | 1 |
| CalStd10=10 | 10000. | 9843.3 | -157. | -1.57 | .69293 | .008 | 1 |

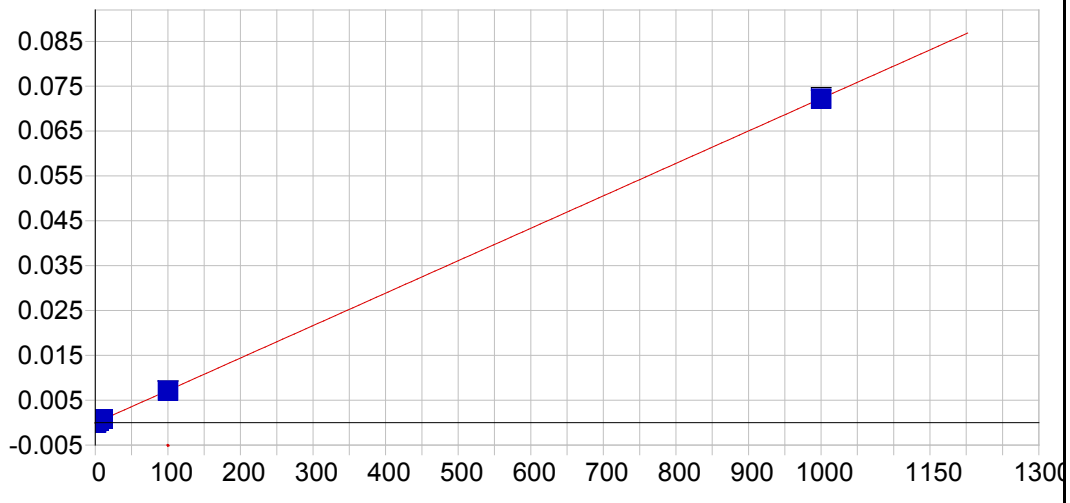



**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.017438 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000056 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999460 | Status: | OK. |
| Std Error of Est: | 0.000895 | | |
| Predicted MDL: | 0.665757 | | |
| Predicted MQL: | 2.219189 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -3.4731 | -3.47 | .000 | .01724 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1034.1 | 34.1 | 3.41 | .07534 | .001 | 1 |
| CalStd8=100 | 100.00 | 102.12 | 2.12 | 2.12 | .02316 | .000 | 1 |
| CalStd10=10 | 10000. | 10588. | 588. | 5.88 | .61028 | .008 | 1 |
| Ag Ba 1000, | 50000. | 48810. | -1190. | -2.38 | 2.7500 | .016 | 1 |

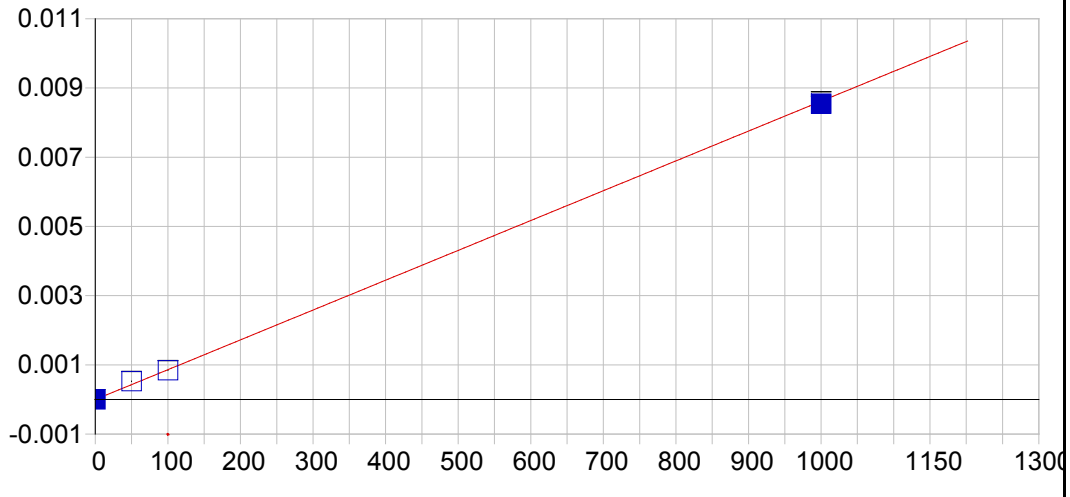



**Be 313.042 {108}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000057 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000072 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999879 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.031460 | | |
| Predicted MQL: | 0.104865 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00029 | -.000 | .000 | -.00006 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.301 | 1.30 | 13.0 | .00076 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.153 | -.847 | -.847 | .00711 | .000 | 1 |
| CalStd2=0.5 | .50000 | .59693 | .097 | 19.4 | -.00001 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.0134 | .013 | .268 | .00031 | .000 | 1 |
| CalStd9=100 | 1000.0 | 999.16 | -.836 | -.084 | .07220 | .000 | 1 |
| CalStd3=1 | 1.0000 | 1.2708 | .271 | 27.1 | .00003 | .000 | 1 |

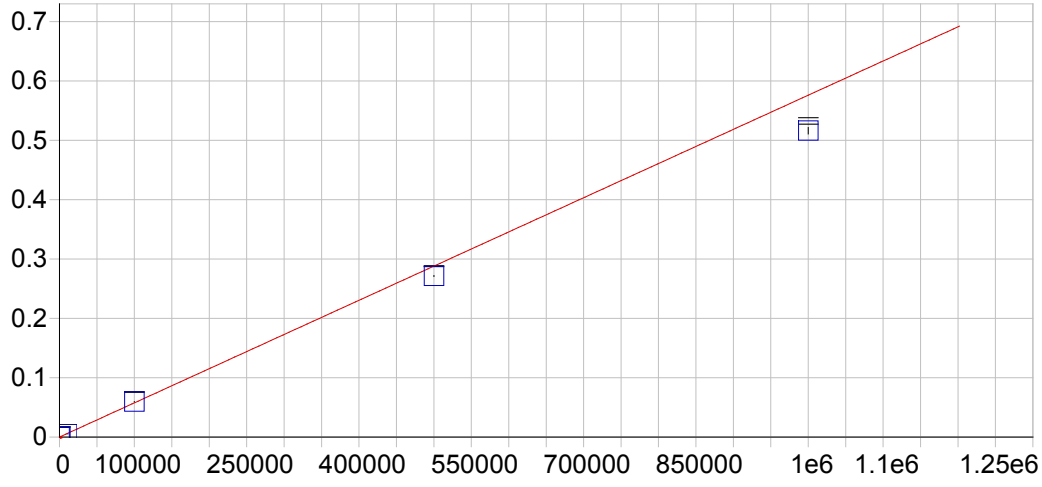



**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000002 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000009 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998894 | Status: | OK. |
| Std Error of Est: | 0.000004 | | |
| Predicted MDL: | 0.238568 | | |
| Predicted MQL: | 0.795228 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00943 | -.009 | .000 | -.00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 991.26 | -8.74 | -.874 | .00854 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.742 | -2.26 | -2.26 | .00084 | .000 | 1 |
| CalStd7=50 | 50.000 | 60.998 | 11.0 | 22.0 | .00052 | .000 | 1 |

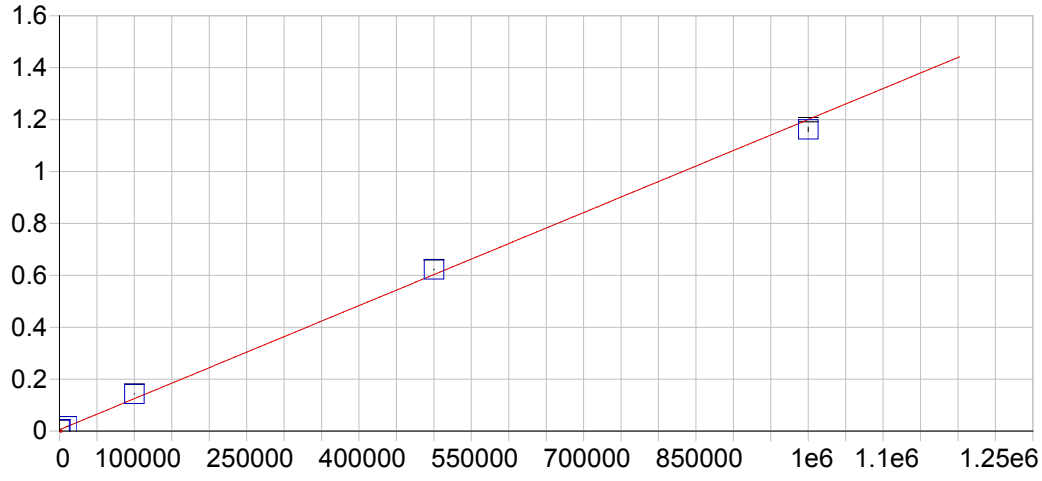



**Ca 315.887 {107}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000067 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999628 | Status: | OK. |
| Std Error of Est: | 0.000044 | | |
| Predicted MDL: | 5.272937 | | |
| Predicted MQL: | 17.576455 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | 23.383 | 23.4 | .000 | .00008 | .000 | 1 |
| CalStd10=10 | 10000. | 9520.2 | -480. | -4.80 | .00555 | .000 | 1 |
| CalStd13=10 | 100000. | 103170. | 3170. | 3.17 | .05950 | .000 | 1 |
| CalStd14=50 | 500000. | 471160. | -28800. | -5.77 | .27147 | .001 | 1 |
| CalStd9=100 | 1000.0 | 951.07 | -48.9 | -4.89 | .00061 | .000 | 1 |
| CalibStd15= | 1000000. | 896090. | -104000. | -10.4 | .51624 | .005 | 1 |

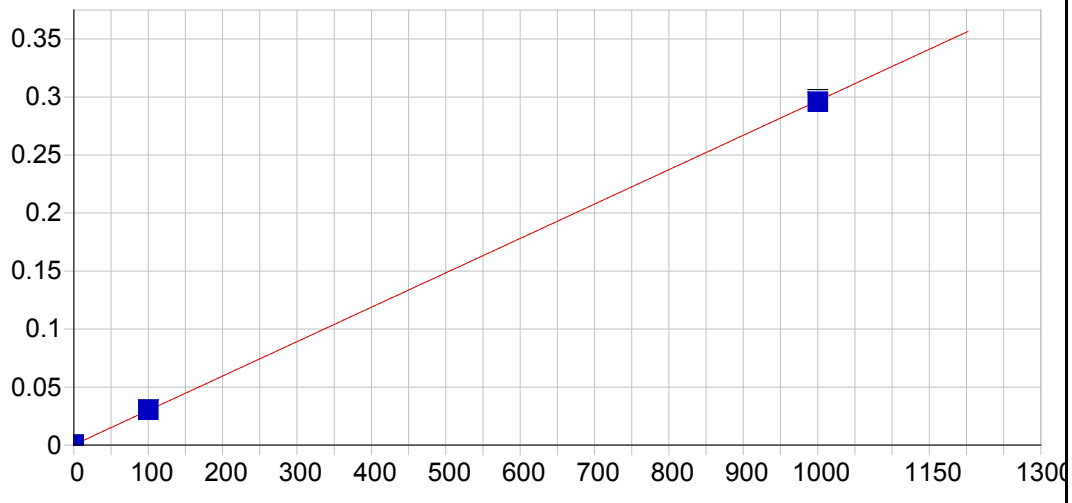



**Ca 317.933 {106}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.005371 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998790 | Status: | OK. |
| Std Error of Est: | 0.000091 | | |
| Predicted MDL: | 3.302106 | | |
| Predicted MQL: | 11.007019 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.14919 | -.149 | .000 | .00537 | .000 | 1 |
| CalStd10=10 | 10000. | 10527. | 527. | 5.27 | .01795 | .000 | 1 |
| CalStd13=10 | 100000. | 115170. | 15200. | 15.2 | .14299 | .001 | 1 |
| CalStd14=50 | 500000. | 516480. | 16500. | 3.30 | .62252 | .001 | 1 |
| CalStd9=100 | 1000.0 | 943.96 | -56.0 | -5.60 | .00650 | .000 | 1 |
| CalibStd15= | 1000000. | 967880. | -32100. | -3.21 | 1.1619 | .009 | 1 |

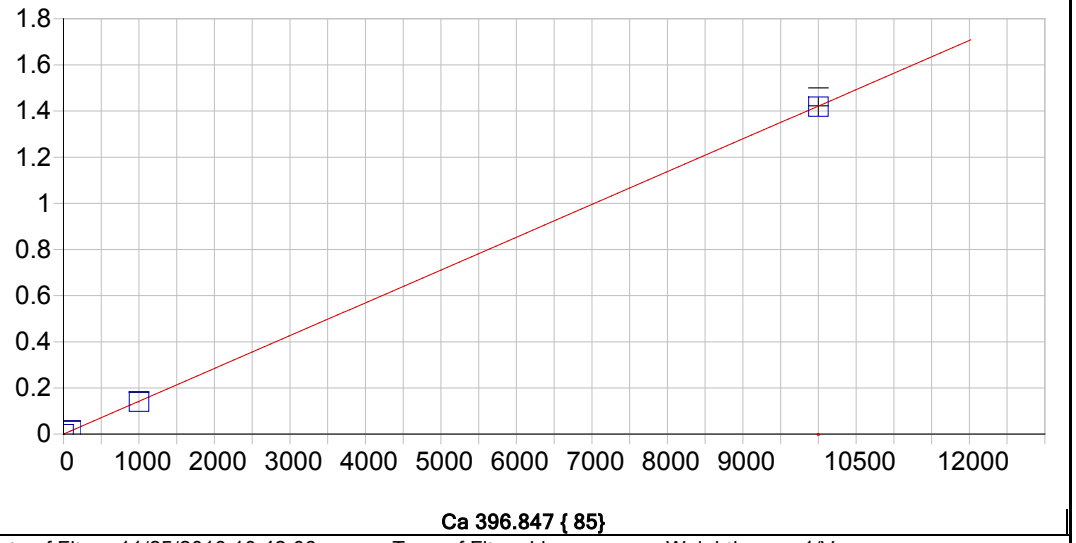



**Ca 393.366 { 86}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000221 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000296 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999974 | Status: | OK. |
| Std Error of Est: | 0.000039 | | |
| Predicted MDL: | 0.031856 | | |
| Predicted MQL: | 0.106187 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00205 | -.002 | .000 | .00022 | .000 | 1 |
| CalStd9=100 | 1000.0 | 997.72 | -2.28 | -.228 | .29598 | .002 | 1 |
| CalStd8=100 | 100.00 | 102.28 | 2.28 | 2.28 | .03054 | .000 | 1 |

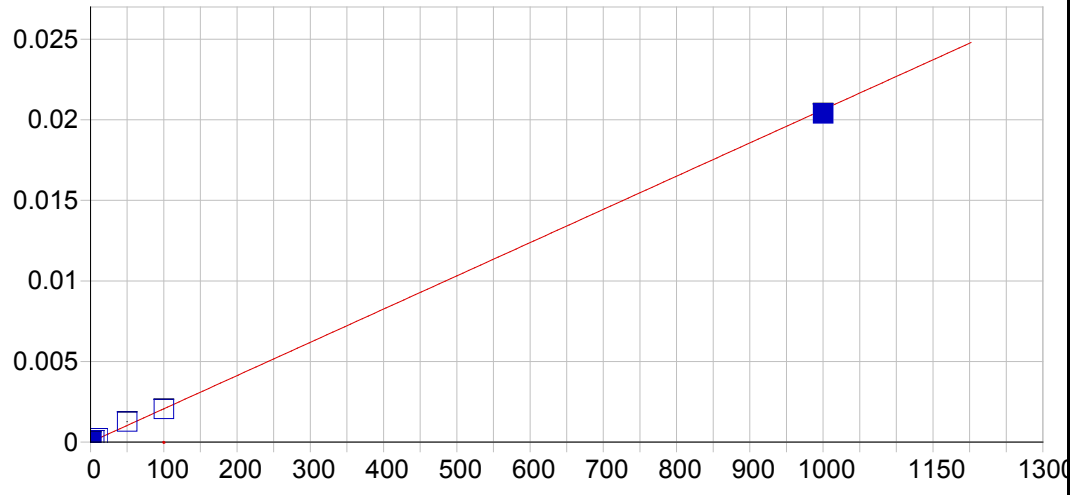



**Ca 396.847 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000089 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000142 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999844 | Status: | OK. |
| Std Error of Est: | 0.000034 | | |
| Predicted MDL: | 0.065102 | | |
| Predicted MQL: | 0.217008 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00703 | -.007 | .000 | .00009 | .000 | 1 |
| CalStd10=10 | 10000. | 9979.0 | -21.0 | -.210 | 1.4188 | .039 | 1 |
| CalStd8=100 | 100.00 | 101.93 | 1.93 | 1.93 | .01458 | .000 | 1 |
| CalStd9=100 | 1000.0 | 983.57 | -16.4 | -1.64 | .13993 | .001 | 1 |

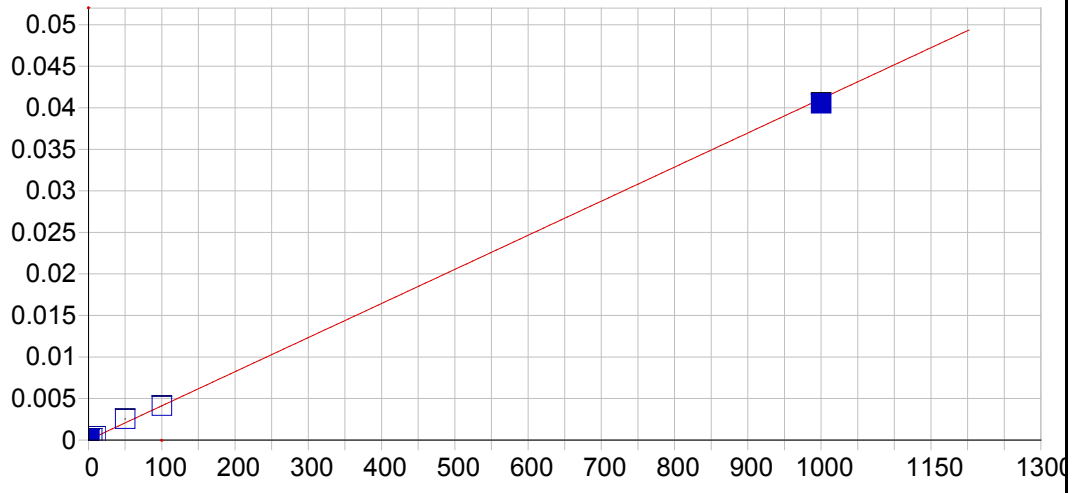



**Cd 226.502 {449}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000002 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000021 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998764 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.211805 | | |
| Predicted MQL: | 0.706018 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00008 | -.000 | .000 | .00000 | .000 | 1 |
| CalStd7=50 | 50.000 | 61.372 | 11.4 | 22.7 | .00127 | .000 | 1 |
| CalStd3=1 | 1.0000 | .99212 | -.008 | -.788 | .00002 | .000 | 1 |
| CalStd2=0.5 | .50000 | .43691 | -.063 | -12.6 | .00001 | .000 | 1 |
| CalStd4=5 | 5.0000 | 4.8650 | -.135 | -2.70 | .00010 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.340 | -.660 | -.660 | .00205 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.219 | 1.22 | 12.2 | .00023 | .000 | 1 |
| CalStd9=100 | 1000.0 | 988.28 | -11.7 | -1.17 | .02039 | .000 | 1 |

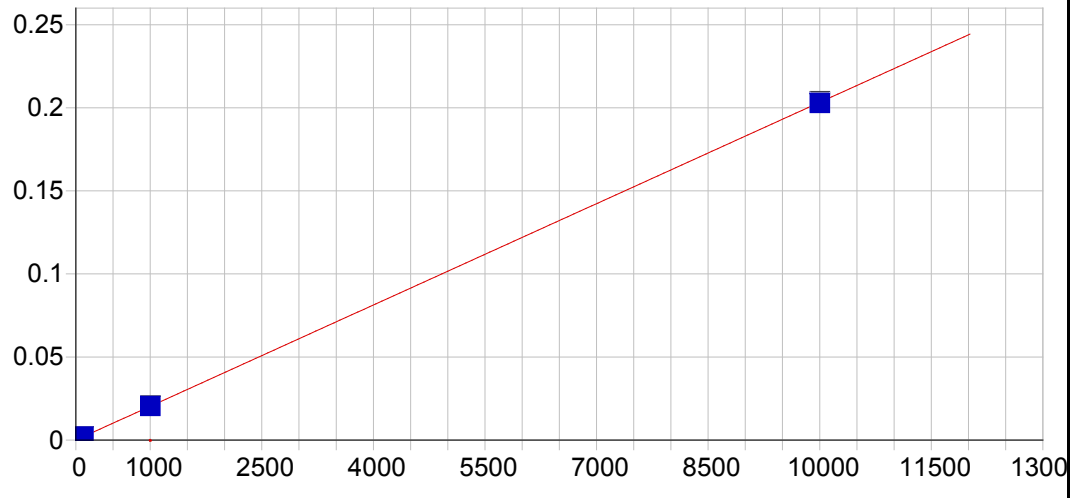



**Cd 228.802 {447}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000021 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000041 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998627 | Status: | OK. |
| Std Error of Est: | 0.000002 | | |
| Predicted MDL: | 0.182770 | | |
| Predicted MQL: | 0.609234 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00051 | -.001 | .000 | .00002 | .000 | 1 |
| CalStd7=50 | 50.000 | 61.503 | 11.5 | 23.0 | .00255 | .000 | 1 |
| CalStd3=1 | 1.0000 | 1.3624 | .362 | 36.2 | .00008 | .000 | 1 |
| CalStd2=0.5 | .50000 | .64368 | .144 | 28.7 | .00005 | .000 | 1 |
| CalStd4=5 | 5.0000 | 4.9979 | -.002 | -.042 | .00023 | .000 | 1 |
| CalStd8=100 | 100.00 | 100.08 | .082 | .082 | .00413 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.439 | 1.44 | 14.4 | .00049 | .000 | 1 |
| CalStd9=100 | 1000.0 | 986.47 | -13.5 | -1.35 | .04052 | .000 | 1 |

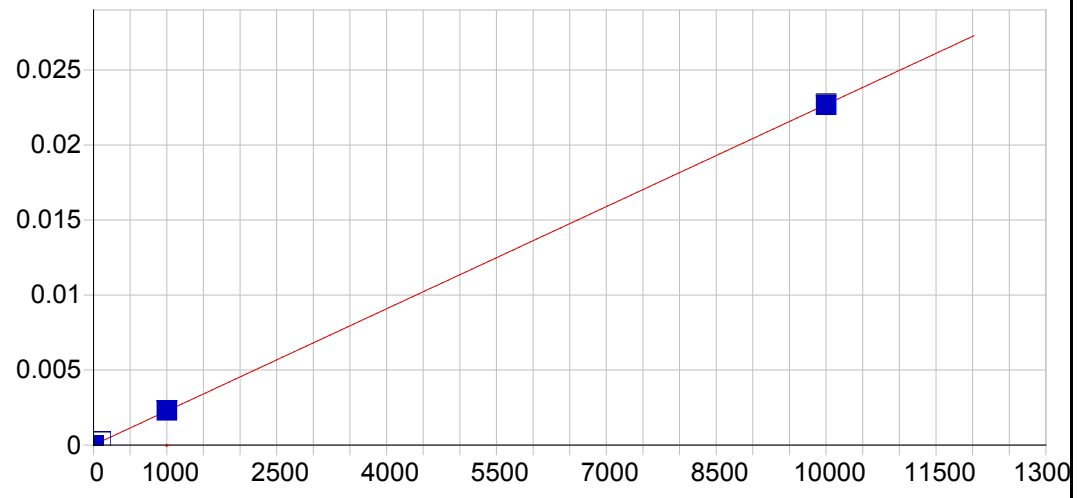



**Co 228.616 {447}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000009 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000020 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999832 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.266162 | | |
| Predicted MQL: | 0.887205 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00072 | -.001 | .000 | .00001 | .000 | 1 |
| CalStd7=50 | 50.000 | 62.951 | 13.0 | 25.9 | .00129 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.596 | 1.60 | 16.0 | .00024 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.2507 | .251 | 5.01 | .00012 | .000 | 1 |
| CalStd8=100 | 100.00 | 100.93 | .935 | .935 | .00206 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1006.3 | 6.33 | .633 | .02050 | .000 | 1 |
| CalStd3=1 | 1.0000 | 1.2377 | .238 | 23.8 | .00003 | .000 | 1 |
| CalStd10=10 | 10000. | 9977.7 | -22.3 | -.223 | .20342 | .000 | 1 |

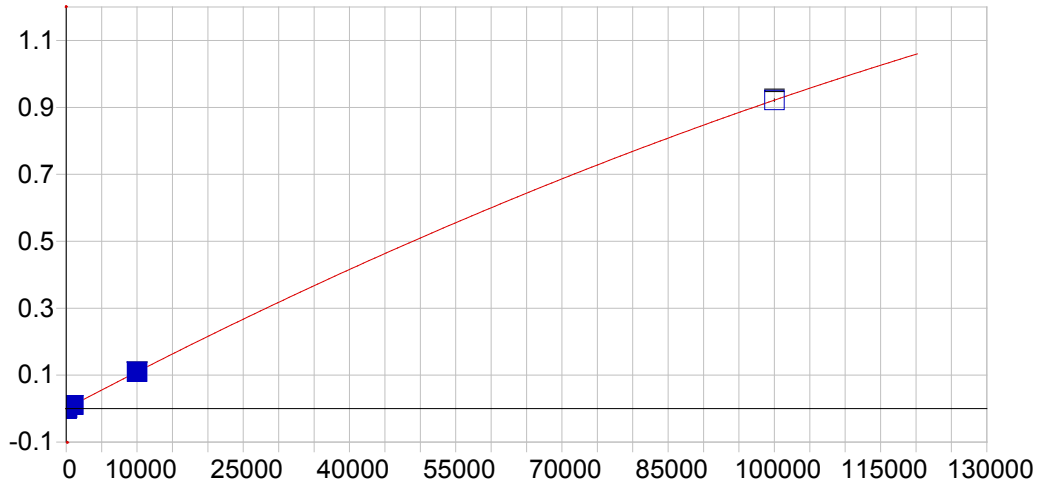



**Co 238.892 {141}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000003 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999990 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 0.664651 | | |
| Predicted MQL: | 2.215505 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00293 | -.003 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1012.9 | 12.9 | 1.29 | .00230 | .000 | 1 |
| CalStd10=10 | 10000. | 9985.3 | -14.7 | -.147 | .02267 | .000 | 1 |
| CalStd8=100 | 100.00 | 101.78 | 1.78 | 1.78 | .00023 | .000 | 1 |

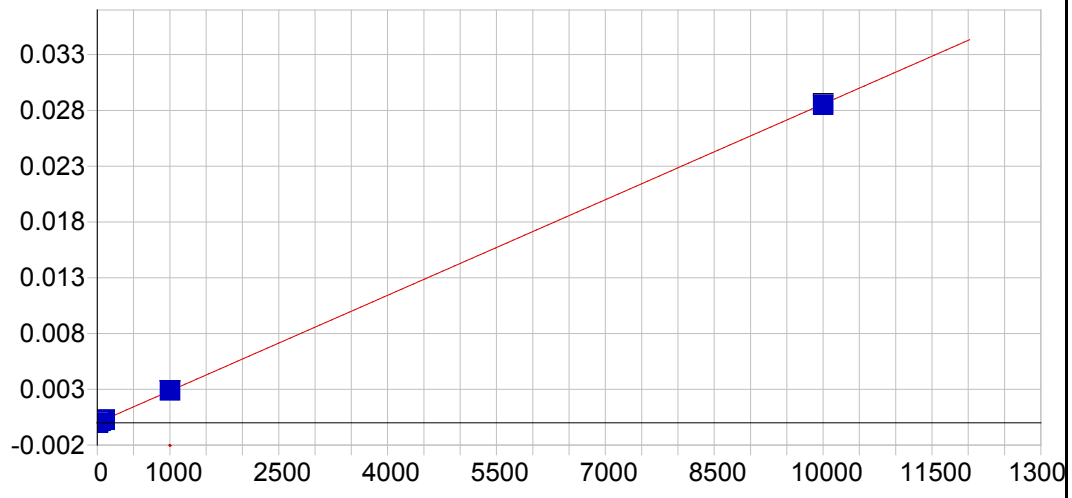



**Cr 205.560 {464}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000009 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000011 | Y-int: | 0.000000 |
| A2 (Curvature): | -0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999976 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.316891 | | |
| Predicted MQL: | 1.056303 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00117 | -.001 | .000 | -.00001 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.329 | 1.33 | 13.3 | .00012 | .000 | 1 |
| CalStd7=50 | 50.000 | 62.196 | 12.2 | 24.4 | .00069 | .000 | 1 |
| CalStd9=100 | 1000.0 | 990.85 | -9.15 | -.915 | .01105 | .000 | 1 |
| CalStd8=100 | 100.00 | 98.405 | -1.59 | -1.59 | .00109 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.4845 | .485 | 9.69 | .00005 | .000 | 1 |
| CalStd3=1 | 1.0000 | 1.7182 | .718 | 71.8 | .00001 | .000 | 1 |
| CalStd10=10 | 10000. | 9995.3 | -4.72 | -.047 | .10976 | .000 | 1 |
| CalStd12=10 | 100000. | 100000. | .835 | .001 | .92152 | .004 | 1 |

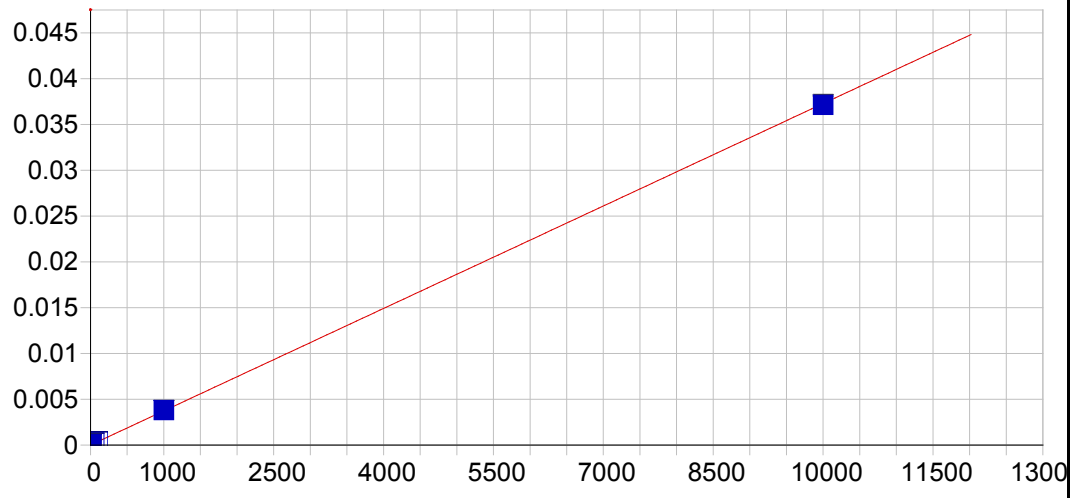



**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000003 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999861 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 0.677858 | | |
| Predicted MQL: | 2.259527 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00154 | -.002 | .000 | .00000 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.661 | .661 | 6.61 | .00003 | .000 | 1 |
| CalStd7=50 | 50.000 | 62.089 | 12.1 | 24.2 | .00018 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1009.6 | 9.63 | .963 | .00288 | .000 | 1 |
| CalStd8=100 | 100.00 | 98.917 | -1.08 | -1.08 | .00028 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.0162 | .016 | .325 | .00001 | .000 | 1 |
| CalStd10=10 | 10000. | 9978.7 | -21.3 | -.213 | .02851 | .000 | 1 |

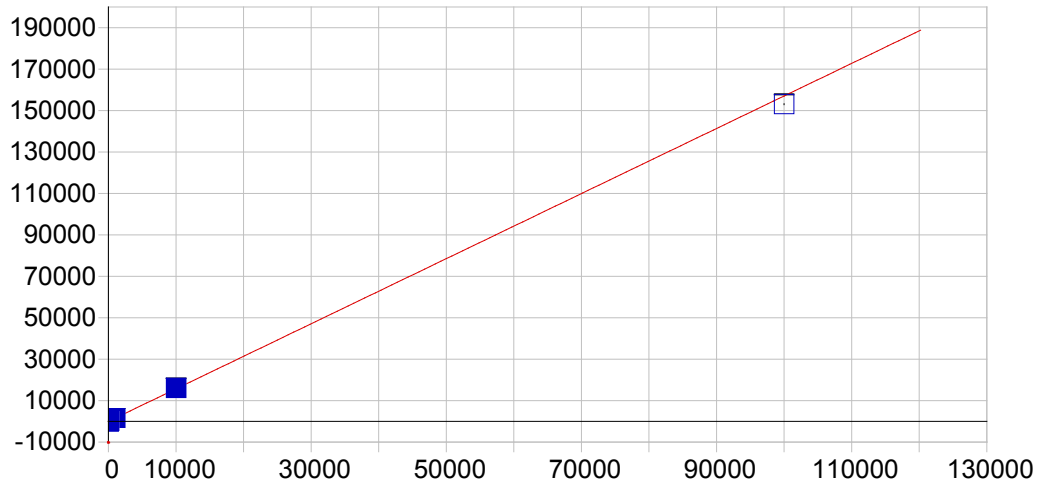



**Cu 223.008 {451}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000004 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000004 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999639 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 1.352372 | | |
| Predicted MQL: | 4.507906 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00851 | -.009 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1018.7 | 18.7 | 1.87 | .00380 | .000 | 1 |
| CalStd7=50 | 50.000 | 66.291 | 16.3 | 32.6 | .00025 | .000 | 1 |
| CalStd8=100 | 100.00 | 101.19 | 1.19 | 1.19 | .00038 | .000 | 1 |
| CalStd6=20 | 20.000 | 26.038 | 6.04 | 30.2 | .00010 | .000 | 1 |
| CalStd10=10 | 10000. | 9955.8 | -44.2 | -.442 | .03712 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.968 | 1.97 | 19.7 | .00005 | .000 | 1 |

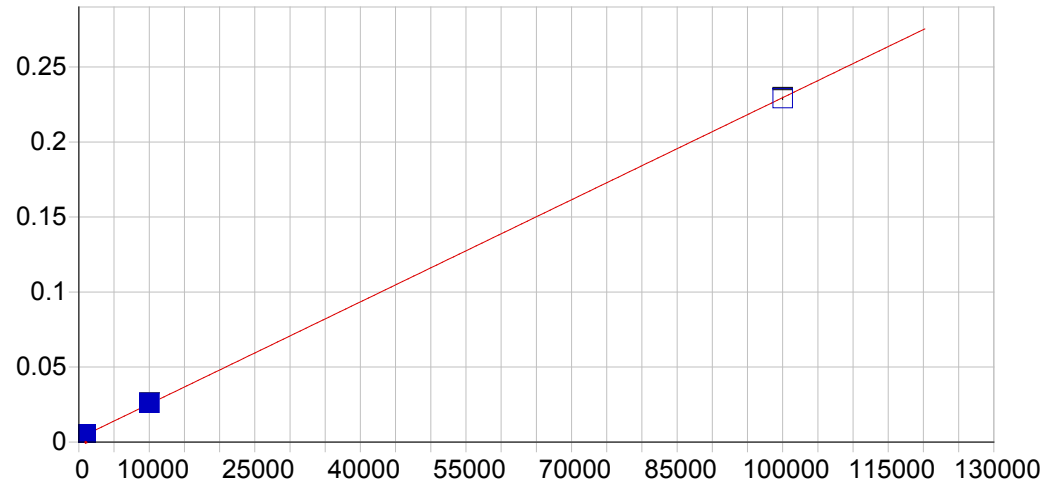



**Cu 224.700 {450}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | -32.187136 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.570908 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.996310 | Status: | OK. |
| Std Error of Est: | 28.767278 | | |
| Predicted MDL: | 0.574075 | | |
| Predicted MQL: | 1.913584 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | 20.566 | 20.6 | .000 | .12068 | .623 | 1 |
| CalStd9=100 | 1000.0 | 1033.0 | 33.0 | 3.30 | 1579.5 | 3.65 | 1 |
| CalStd7=50 | 50.000 | 37.965 | -12.0 | -24.1 | 27.452 | .429 | 1 |
| CalStd8=100 | 100.00 | 69.557 | -30.4 | -30.4 | 75.975 | .643 | 1 |
| CalStd6=20 | 20.000 | 27.262 | 7.26 | 36.3 | 10.640 | .297 | 1 |
| CalStd12=10 | 100000. | 97472. | -2530. | -2.53 | 153090. | 225. | 1 |
| CalStd10=10 | 10000. | 10268. | 268. | 2.68 | 15988. | 15.2 | 1 |

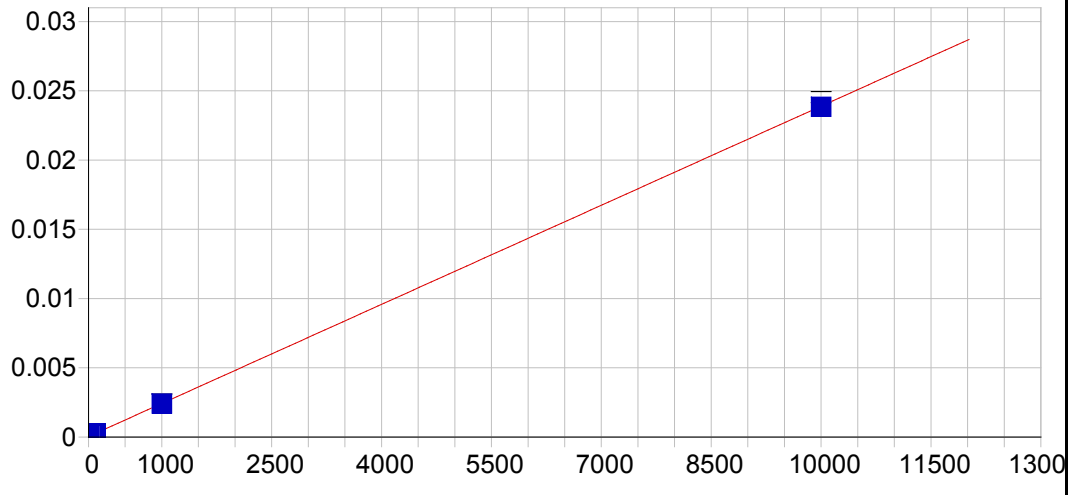



**Cu 324.754 {104}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002673 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999807 | Status: | OK. |
| Std Error of Est: | 0.000065 | | |
| Predicted MDL: | 3.296110 | | |
| Predicted MQL: | 10.987033 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | 19.401 | 19.4 | .000 | .00272 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1000.5 | .487 | .049 | .00494 | .000 | 1 |
| CalStd8=100 | 100.00 | 123.09 | 23.1 | 23.1 | .00295 | .000 | 1 |
| CalStd10=10 | 10000. | 10299. | 299. | 2.99 | .02603 | .000 | 1 |
| CalStd12=10 | 100000. | 99794. | -206. | -.206 | .22911 | .001 | 1 |
| CalStd5=10 | 10.000 | -7.1346 | -17.1 | -171. | .00266 | .000 | 1 |
| CalStd6=20 | 20.000 | 81.626 | 61.6 | 308. | .00286 | .000 | 1 |
| CalStd7=50 | 50.000 | 56.209 | 6.21 | 12.4 | .00280 | .000 | 1 |

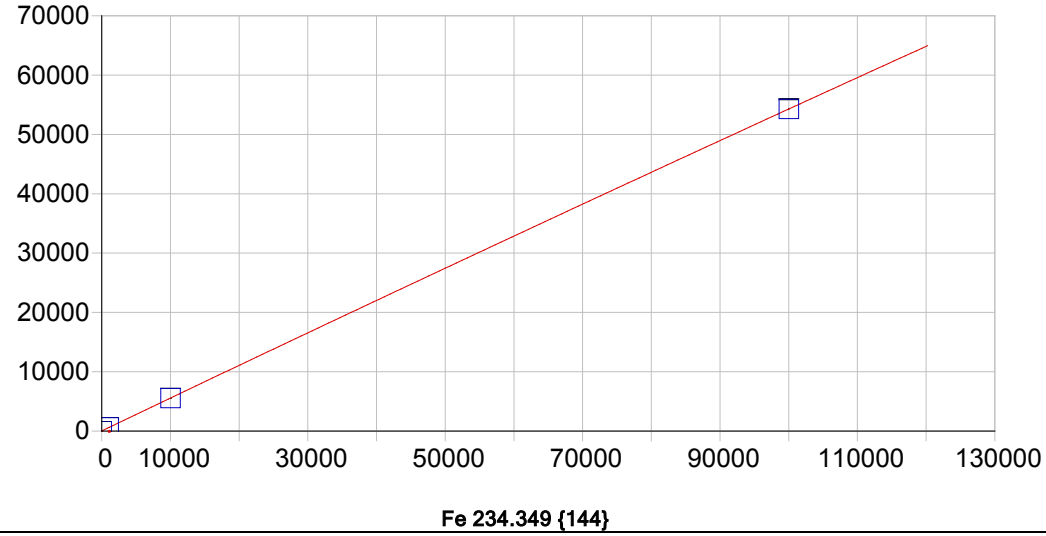



**Cu 327.396 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000042 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999315 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 4.057298 | | |
| Predicted MQL: | 13.524326 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.01089 | -.011 | .000 | .00004 | .000 | 1 |
| CalStd6=20 | 20.000 | 27.103 | 7.10 | 35.5 | .00011 | .000 | 1 |
| CalStd7=50 | 50.000 | 63.840 | 13.8 | 27.7 | .00019 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.193 | -.807 | -.807 | .00028 | .000 | 1 |
| CalStd9=100 | 1000.0 | 991.44 | -8.56 | -.856 | .00241 | .000 | 1 |
| CalStd10=10 | 10000. | 9976.9 | -23.1 | -.231 | .02384 | .000 | 1 |
| CalStd4=5 | 5.0000 | 9.1687 | 4.17 | 83.4 | .00006 | .000 | 1 |
| CalStd5=10 | 10.000 | 17.321 | 7.32 | 73.2 | .00008 | .000 | 1 |

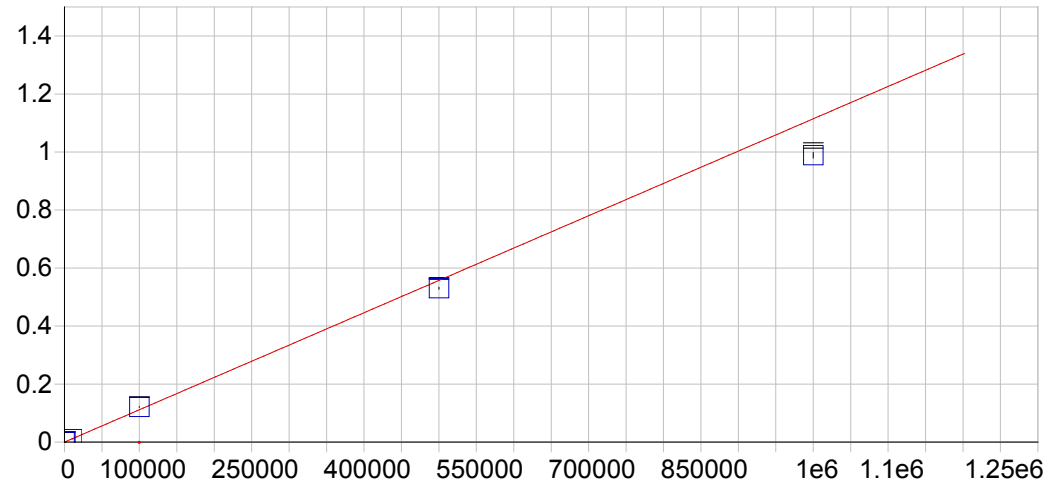



**Fe 234.349 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 37.314437 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.554113 | Y-int: | 0.000000 |
| A2 (Curvature): | -0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999995 | Status: | OK. |
| Std Error of Est: | 1.168296 | | |
| Predicted MDL: | 1.794085 | | |
| Predicted MQL: | 5.980284 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.02806 | -.028 | .000 | 37.299 | .746 | 1 |
| CalStd10=10 | 10000. | 9965.2 | -34.8 | -.348 | 5547.6 | 3.10 | 1 |
| CalStd13=10 | 100000. | 100000. | 3.29 | .003 | 54281. | 88.1 | 1 |
| CalStd9=100 | 1000.0 | 1031.5 | 31.5 | 3.15 | 608.76 | 4.27 | 1 |

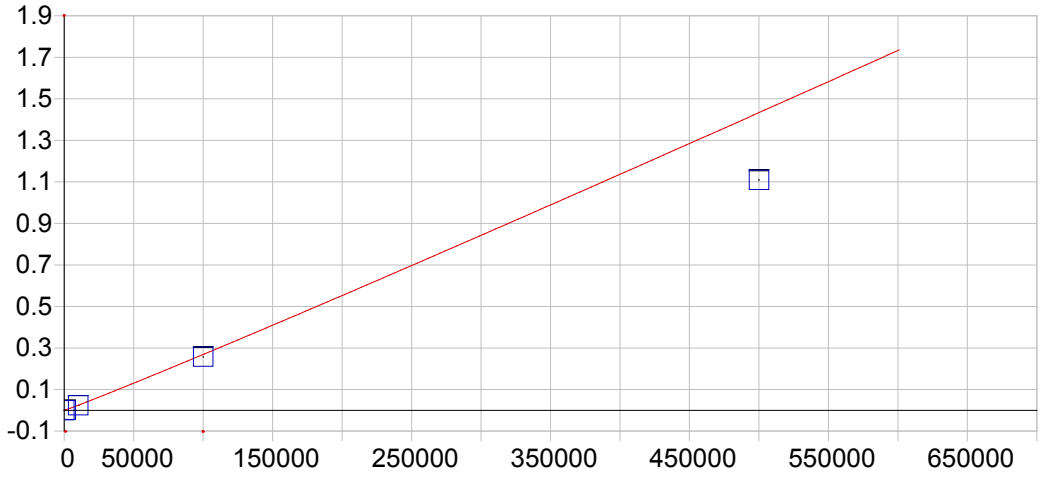



**Fe 239.562 {140}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000004 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.997470 | Status: | OK. |
| Std Error of Est: | 0.000055 | | |
| Predicted MDL: | 2.645304 | | |
| Predicted MQL: | 8.817679 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.14323 | -.143 | .000 | .00000 | .000 | 1 |
| CalStd10=10 | 10000. | 10075. | 75.2 | .752 | .01123 | .000 | 1 |
| CalStd13=10 | 100000. | 108620. | 8620. | 8.62 | .12107 | .001 | 1 |
| CalStd14=50 | 500000. | 475770. | -24200. | -4.85 | .53030 | .003 | 1 |
| CalStd9=100 | 1000.0 | 1001.3 | 1.28 | .128 | .00112 | .000 | 1 |
| CalibStd15= | 1000000. | 887200. | -113000. | -11.3 | .98887 | .009 | 1 |

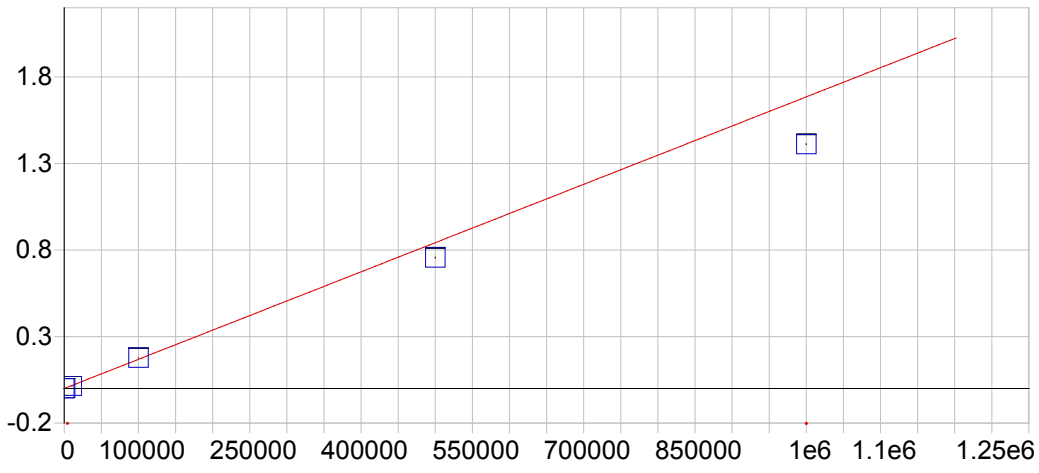



**Fe 259.940 {129}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Full Fit | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.040000 | | |
| Correlation: | 0.999991 | Status: | OK. |
| Std Error of Est: | 0.000017 | | |
| Predicted MDL: | 2.266310 | | |
| Predicted MQL: | 7.554367 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00000 | .000 | .000 | .00000 | .000 | 1 |
| CalStd10=10 | 10000. | 9745.5 | -254. | -2.54 | .02387 | .000 | 1 |
| CalStd13=10 | 100000. | 96082. | -3920. | -3.92 | .25786 | .002 | 1 |
| CalStd14=50 | 500000. | 390740. | -109000. | -21.9 | 1.1092 | .003 | 1 |
| CalStd9=100 | 1000.0 | 1065.1 | 65.1 | 6.51 | .00239 | .000 | 1 |

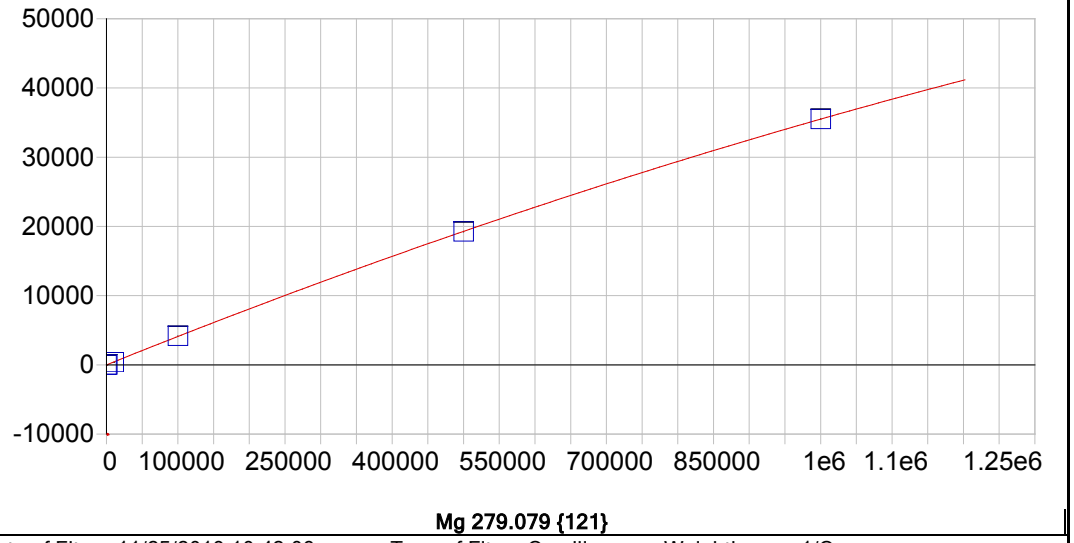



**Mg 202.582 {466}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000006 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999690 | Status: | OK. |
| Std Error of Est: | 0.000066 | | |
| Predicted MDL: | 2.448181 | | |
| Predicted MQL: | 8.160602 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .08311 | .083 | .000 | -.00001 | .000 | 1 |
| CalStd13=10 | 100000. | 104980. | 4980. | 4.98 | .17689 | .000 | 1 |
| CalStd10=10 | 10000. | 8977.5 | -1020. | -10.2 | .01512 | .000 | 1 |
| CalStd14=50 | 500000. | 448480. | -51500. | -10.3 | .75573 | .003 | 1 |
| CalStd9=100 | 1000.0 | 966.38 | -33.6 | -3.36 | .00162 | .000 | 1 |
| CalibStd15= | 1000000. | 837820. | -162000. | -16.2 | 1.4118 | .002 | 1 |

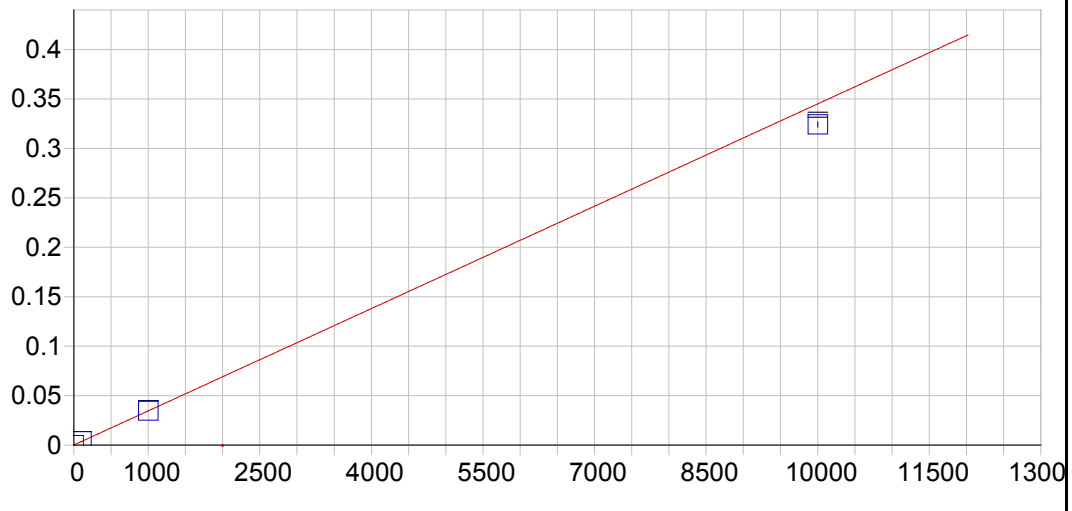



**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.335327 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.041644 | Y-int: | 0.000000 |
| A2 (Curvature): | -0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999951 | Status: | OK. |
| Std Error of Est: | 0.653871 | | |
| Predicted MDL: | 19.055073 | | |
| Predicted MQL: | 63.516910 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .18947 | .189 | .000 | -.32744 | .508 | 1 |
| CalStd13=10 | 100000. | 101690. | 1690. | 1.69 | 4171.1 | 12.7 | 1 |
| CalStd10=10 | 10000. | 9094.7 | -905. | -9.05 | 377.90 | 1.74 | 1 |
| CalStd14=50 | 500000. | 498900. | -1100. | -.221 | 19247. | 35.8 | 1 |
| CalStd9=100 | 1000.0 | 885.91 | -114. | -11.4 | 36.553 | .253 | 1 |
| CalibStd15= | 1000000. | 1000400. | 448. | .045 | 35515. | 27.1 | 1 |

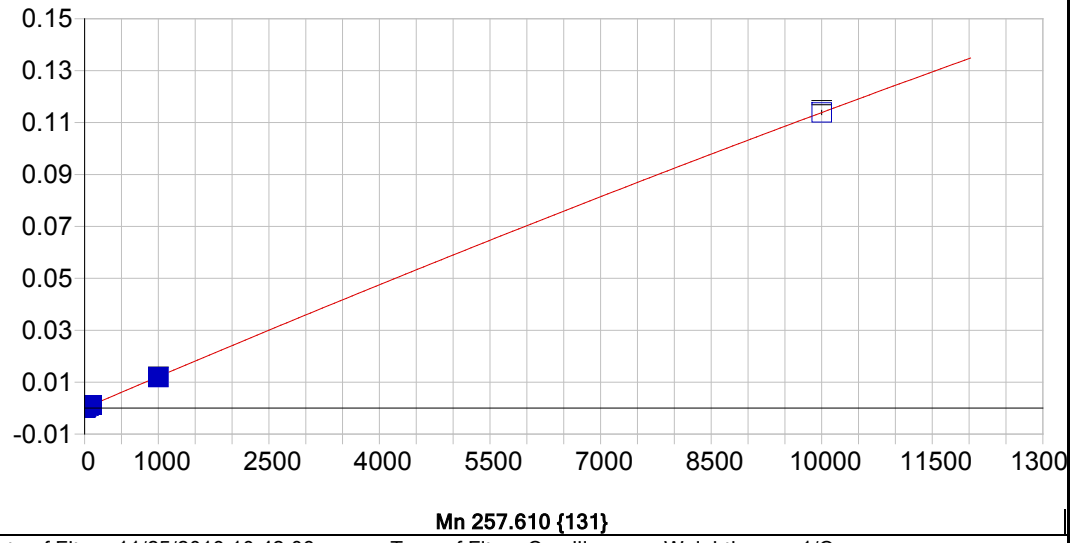



**Mg 280.270 {120}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000093 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000034 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999584 | Status: | OK. |
| Std Error of Est: | 0.000019 | | |
| Predicted MDL: | 0.030421 | | |
| Predicted MQL: | 0.101402 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.01523 | -.015 | .000 | .00009 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1007.9 | 7.87 | .787 | .03486 | .000 | 1 |
| CalStd10=10 | 10000. | 9396.2 | -604. | -6.04 | .32423 | .003 | 1 |
| CalStd8=100 | 100.00 | 101.75 | 1.75 | 1.75 | .00360 | .000 | 1 |

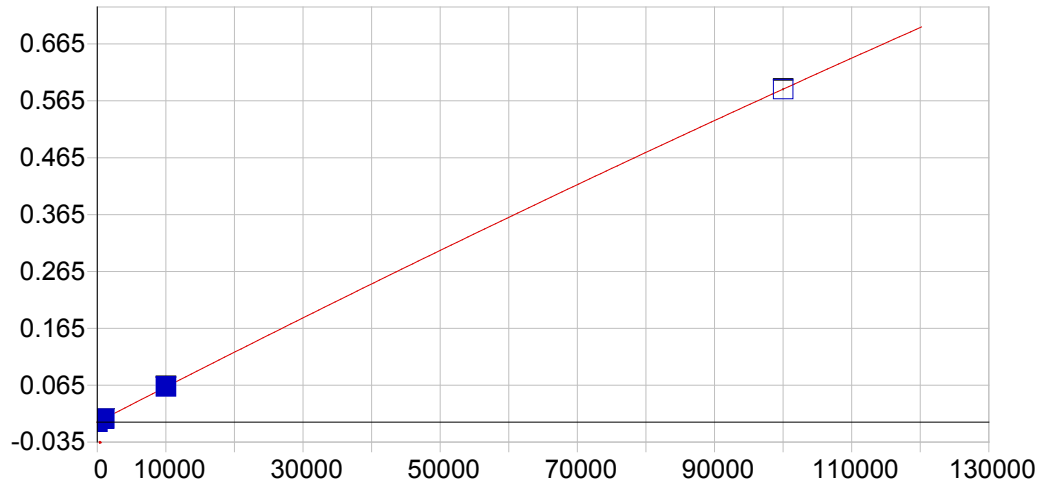



**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000003 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000012 | Y-int: | 0.000000 |
| A2 (Curvature): | -0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999767 | Status: | OK. |
| Std Error of Est: | 0.000002 | | |
| Predicted MDL: | 0.084012 | | |
| Predicted MQL: | 0.280041 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00317 | -.003 | .000 | -.00000 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.475 | 1.48 | 14.8 | .00014 | .000 | 1 |
| CalStd7=50 | 50.000 | 62.306 | 12.3 | 24.6 | .00076 | .000 | 1 |
| CalStd6=20 | 20.000 | 24.398 | 4.40 | 22.0 | .00029 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.896 | -2.10 | -2.10 | .00119 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.3026 | .303 | 6.05 | .00006 | .000 | 1 |
| CalStd9=100 | 1000.0 | 981.62 | -18.4 | -1.84 | .01190 | .000 | 1 |
| CalStd10=10 | 10000. | 10002. | 2.04 | .020 | .11389 | .001 | 1 |

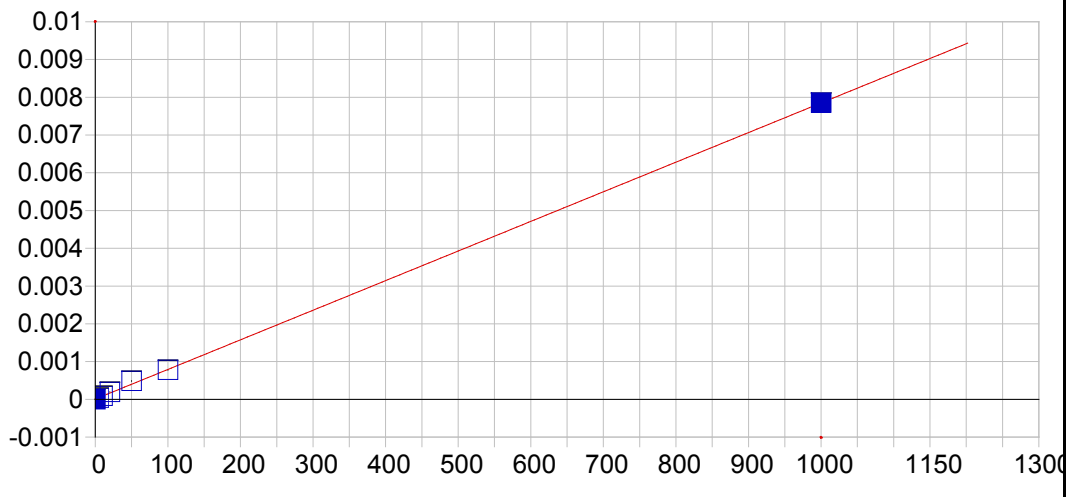



**Mn 259.373 {130}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000006 | Y-int: | 0.000000 |
| A2 (Curvature): | -0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999998 | Status: | OK. |
| Std Error of Est: | 0.000005 | | |
| Predicted MDL: | 0.509900 | | |
| Predicted MQL: | 1.699666 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00959 | .010 | .000 | -.00000 | .000 | 1 |
| CalStd10=10 | 10000. | 10117. | 117. | 1.17 | .06268 | .001 | 1 |
| CalStd9=100 | 1000.0 | 994.98 | -5.02 | -.502 | .00620 | .000 | 1 |
| CalStd12=10 | 100000. | 99997. | -2.62 | -.003 | .58552 | .001 | 1 |

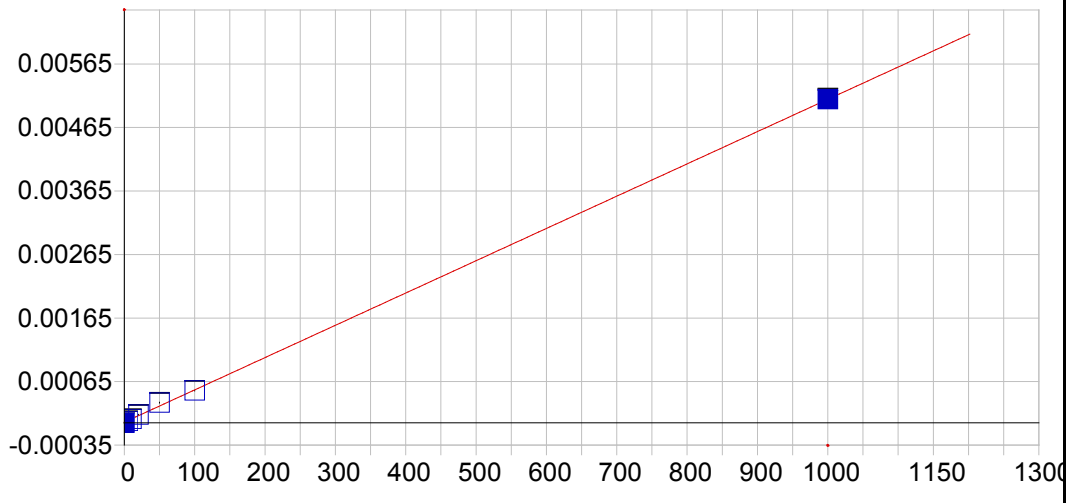



**Mo 202.030 {466}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000006 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000008 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999451 | Status: | OK. |
| Std Error of Est: | 0.000025 | | |
| Predicted MDL: | 0.419192 | | |
| Predicted MQL: | 1.397307 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.90666 | -.907 | .000 | -.00000 | .000 | 1 |
| CalStd7=50 | 50.000 | 61.054 | 11.1 | 22.1 | .00049 | .000 | 1 |
| CalStd6=20 | 20.000 | 23.969 | 3.97 | 19.8 | .00019 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.795 | .795 | 7.95 | .00009 | .000 | 1 |
| CalStd8=100 | 100.00 | 98.189 | -1.81 | -1.81 | .00078 | .000 | 1 |
| CalStd4=5 | 5.0000 | 4.5071 | -.493 | -9.86 | .00004 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1000.6 | .647 | .065 | .00785 | .000 | 1 |

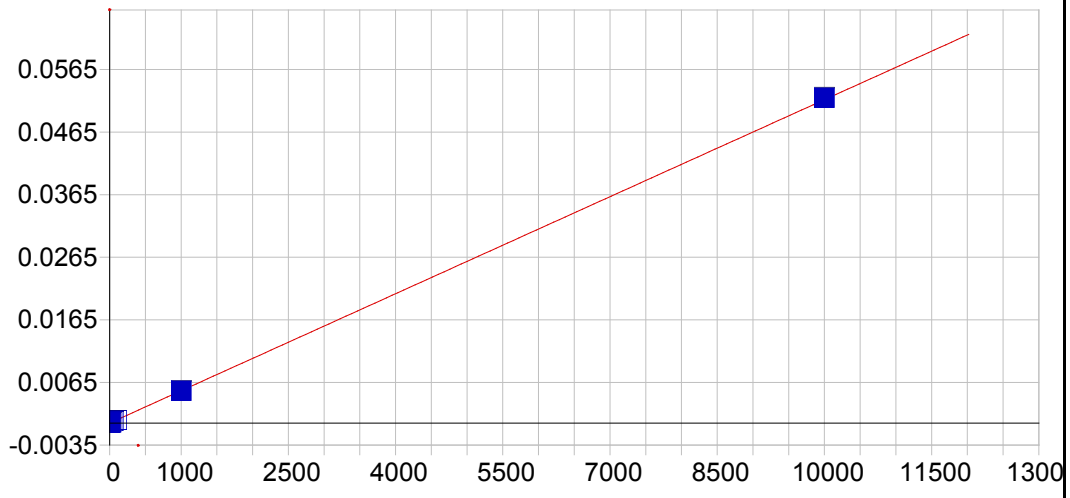



**Mo 203.844 {465}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000011 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000005 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999458 | Status: | OK. |
| Std Error of Est: | 0.000021 | | |
| Predicted MDL: | 0.832639 | | |
| Predicted MQL: | 2.775464 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -1.9726 | -1.97 | .000 | .00000 | .000 | 1 |
| CalStd7=50 | 50.000 | 60.333 | 10.3 | 20.7 | .00032 | .000 | 1 |
| CalStd6=20 | 20.000 | 23.118 | 3.12 | 15.6 | .00013 | .000 | 1 |
| CalStd5=10 | 10.000 | 9.6777 | -.322 | -3.22 | .00006 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.678 | -2.32 | -2.32 | .00051 | .000 | 1 |
| CalStd4=5 | 5.0000 | 3.3669 | -1.63 | -32.7 | .00003 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1000.2 | .214 | .021 | .00509 | .000 | 1 |

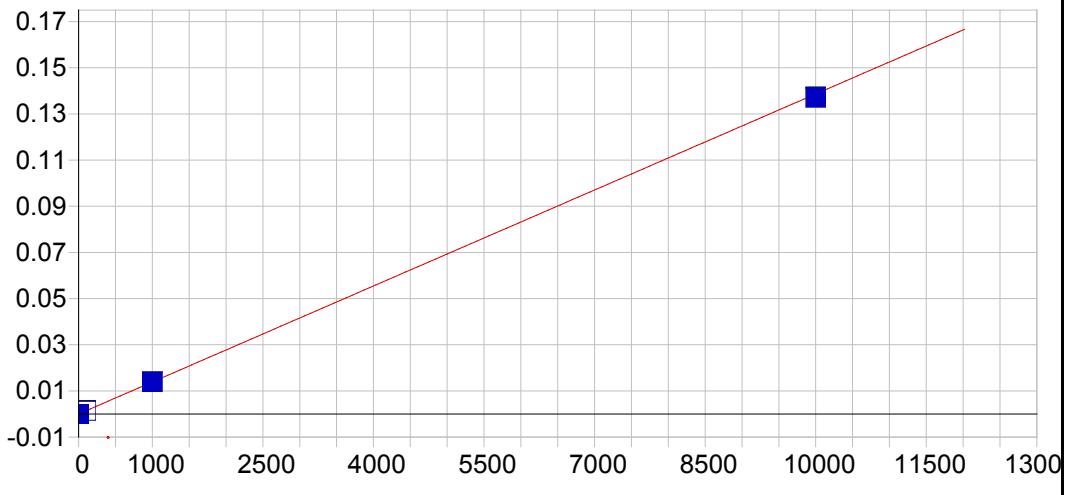



**Mo 204.598 {464}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000011 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000005 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999840 | Status: | OK. |
| Std Error of Est: | 0.000027 | | |
| Predicted MDL: | 0.761798 | | |
| Predicted MQL: | 2.539326 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -3.0924 | -3.09 | .000 | -.00001 | .000 | 1 |
| CalStd7=50 | 50.000 | 58.827 | 8.83 | 17.7 | .00031 | .000 | 1 |
| CalStd6=20 | 20.000 | 21.316 | 1.32 | 6.58 | .00012 | .000 | 1 |
| CalStd5=10 | 10.000 | 8.1603 | -1.84 | -18.4 | .00005 | .000 | 1 |
| CalStd8=100 | 100.00 | 96.386 | -3.61 | -3.61 | .00051 | .000 | 1 |
| CalStd4=5 | 5.0000 | 2.0330 | -2.97 | -59.3 | .00002 | .000 | 1 |
| CalStd9=100 | 1000.0 | 996.45 | -3.55 | -.355 | .00516 | .000 | 1 |
| CalStd10=10 | 10000. | 10056. | 56.1 | .561 | .05197 | .000 | 1 |

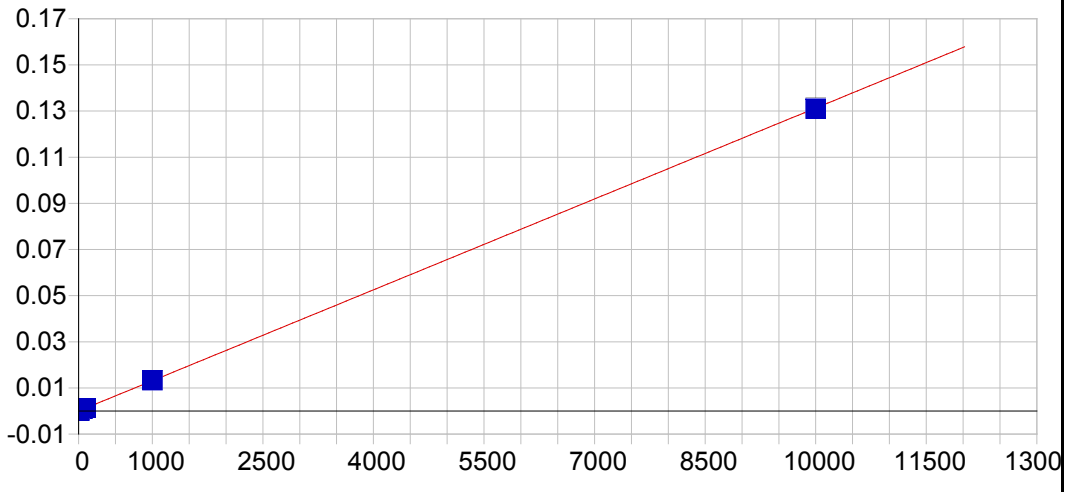



**Ni 221.647 {452}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000014 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999981 | Status: | OK. |
| Std Error of Est: | 0.000010 | | |
| Predicted MDL: | 0.456797 | | |
| Predicted MQL: | 1.522658 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.06980 | -.070 | .000 | .00000 | .000 | 1 |
| CalStd10=10 | 10000. | 9886.8 | -113. | -1.13 | .13709 | .000 | 1 |
| CalStd8=100 | 100.00 | 100.40 | .398 | .398 | .00139 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1003.0 | 3.02 | .302 | .01391 | .000 | 1 |

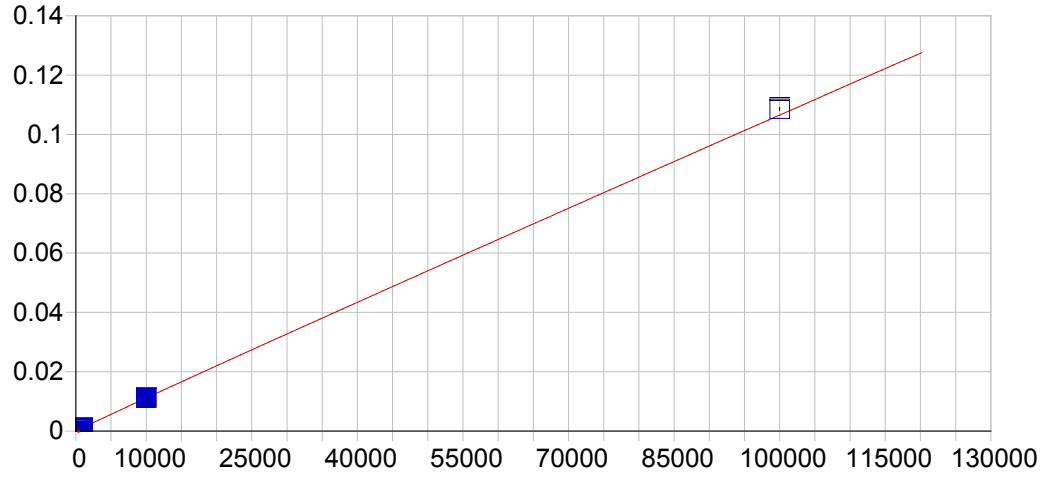



**Ni 231.604 {445}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000021 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000013 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999818 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.475843 | | |
| Predicted MQL: | 1.586143 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00076 | -.001 | .000 | -.00002 | .000 | 1 |
| CalStd7=50 | 50.000 | 63.207 | 13.2 | 26.4 | .00081 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.601 | 1.60 | 16.0 | .00013 | .000 | 1 |
| CalStd8=100 | 100.00 | 101.62 | 1.62 | 1.62 | .00131 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.1113 | .111 | 2.23 | .00005 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1011.6 | 11.6 | 1.16 | .01327 | .000 | 1 |
| CalStd3=1 | 1.0000 | 1.2909 | .291 | 29.1 | -.00000 | .000 | 1 |
| CalStd10=10 | 10000. | 9971.5 | -28.5 | -.285 | .13117 | .000 | 1 |

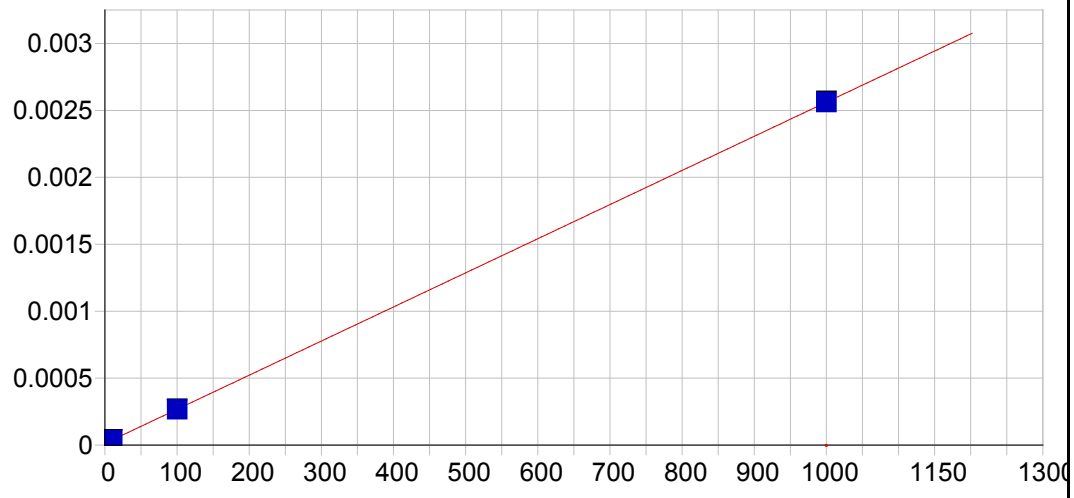



**Pb 216.999 {455}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Full Fit | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000004 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 0.980000 | | |
| Correlation: | 0.999994 | Status: | OK. |
| Std Error of Est: | 0.000006 | | |
| Predicted MDL: | 3.794839 | | |
| Predicted MQL: | 12.649464 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | 2.2794 | 2.28 | .000 | .00001 | .000 | 1 |
| CalStd9=100 | 1000.0 | 997.64 | -2.36 | -.236 | .00117 | .000 | 1 |
| CalStd10=10 | 10000. | 10051. | 51.2 | .512 | .01122 | .000 | 1 |
| CalStd8=100 | 100.00 | 100.45 | .451 | .451 | .00013 | .000 | 1 |
| CalStd5=10 | 10.000 | 12.781 | 2.78 | 27.8 | .00002 | .000 | 1 |
| CalStd12=10 | 100000. | 101990. | 1990. | 1.99 | .10862 | .001 | 1 |

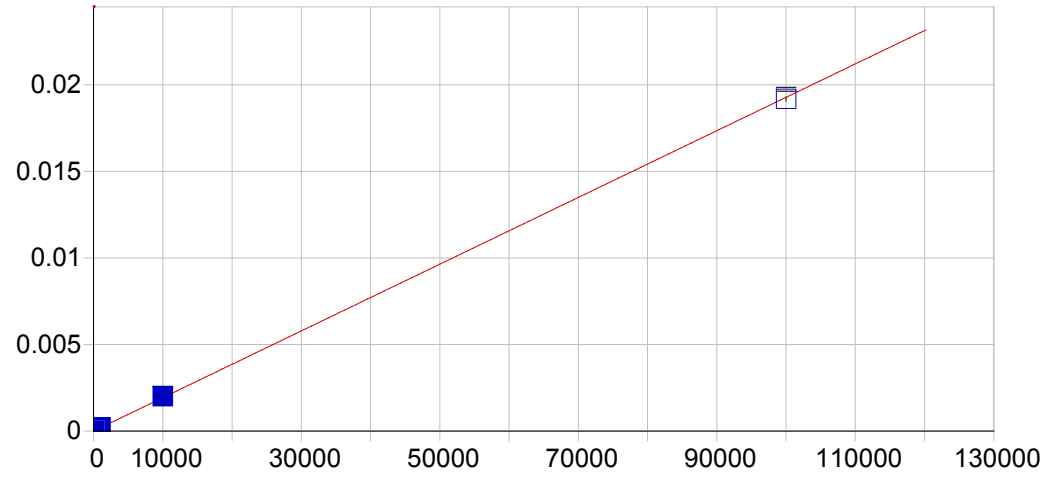



**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | None |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000012 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000003 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999999 | Status: | OK. |
| Std Error of Est: | 0.000002 | | |
| Predicted MDL: | 2.497402 | | |
| Predicted MQL: | 8.324672 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .79914 | .799 | .000 | .00001 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.397 | .397 | 3.97 | .00004 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.662 | -.338 | -.338 | .00027 | .000 | 1 |
| CalStd4=5 | 5.0000 | 4.1077 | -.892 | -17.8 | .00002 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1000.0 | .034 | .003 | .00256 | .000 | 1 |

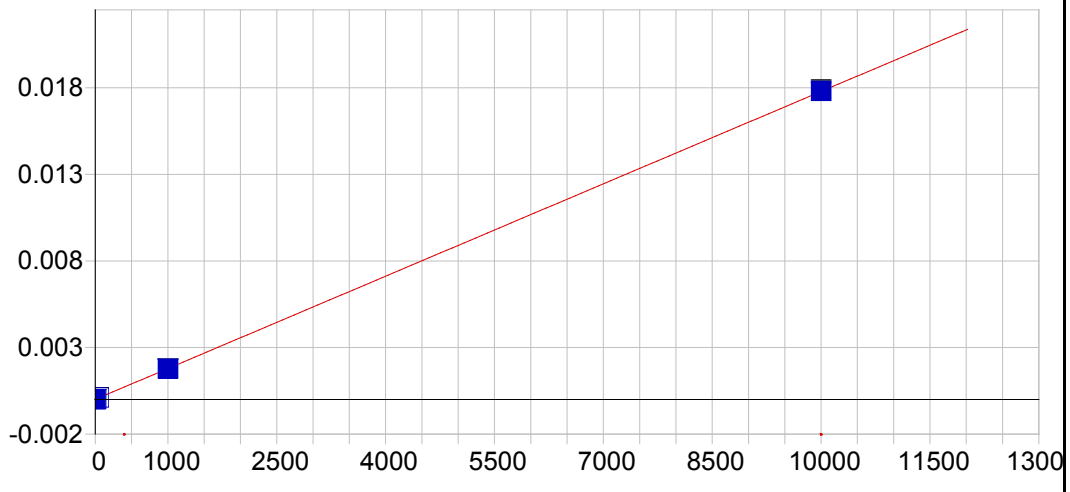



**Pb 220.353 {153}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999878 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 4.610251 | | |
| Predicted MQL: | 15.367502 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.02066 | -.021 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1085.9 | 85.9 | 8.59 | .00021 | .000 | 1 |
| CalStd10=10 | 10000. | 10407. | 407. | 4.07 | .00201 | .000 | 1 |
| CalStd8=100 | 100.00 | 108.50 | 8.50 | 8.50 | .00002 | .000 | 1 |
| CalStd12=10 | 100000. | 99499. | -501. | -.501 | .01918 | .000 | 1 |

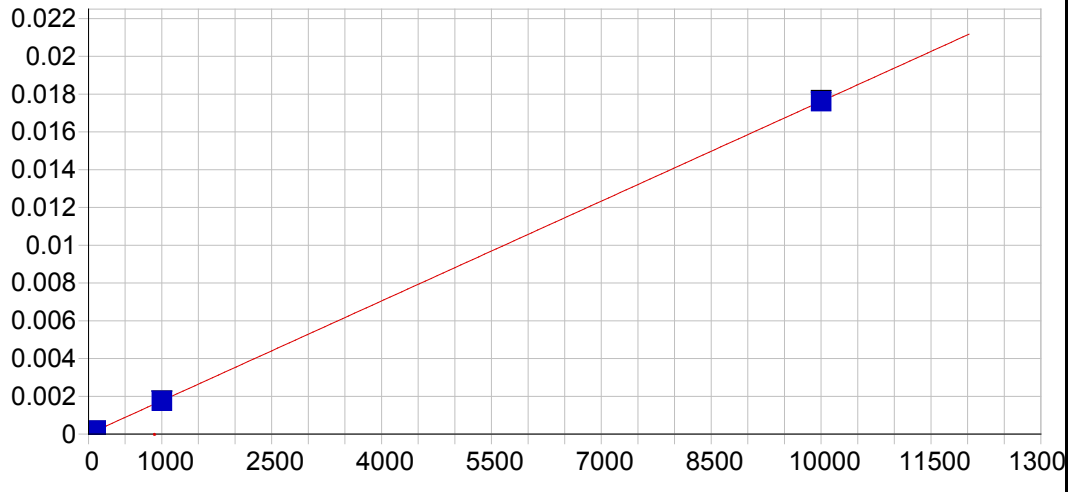



**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000006 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999865 | Status: | OK. |
| Std Error of Est: | 0.000011 | | |
| Predicted MDL: | 2.230584 | | |
| Predicted MQL: | 7.435279 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -5.0395 | -5.04 | .000 | -.00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 992.44 | -7.56 | -.756 | .00177 | .000 | 1 |
| CalStd5=10 | 10.000 | 7.7778 | -2.22 | -22.2 | .00002 | .000 | 1 |
| CalStd7=50 | 50.000 | 57.050 | 7.05 | 14.1 | .00011 | .000 | 1 |
| CalStd10=10 | 10000. | 10012. | 11.9 | .119 | .01781 | .000 | 1 |

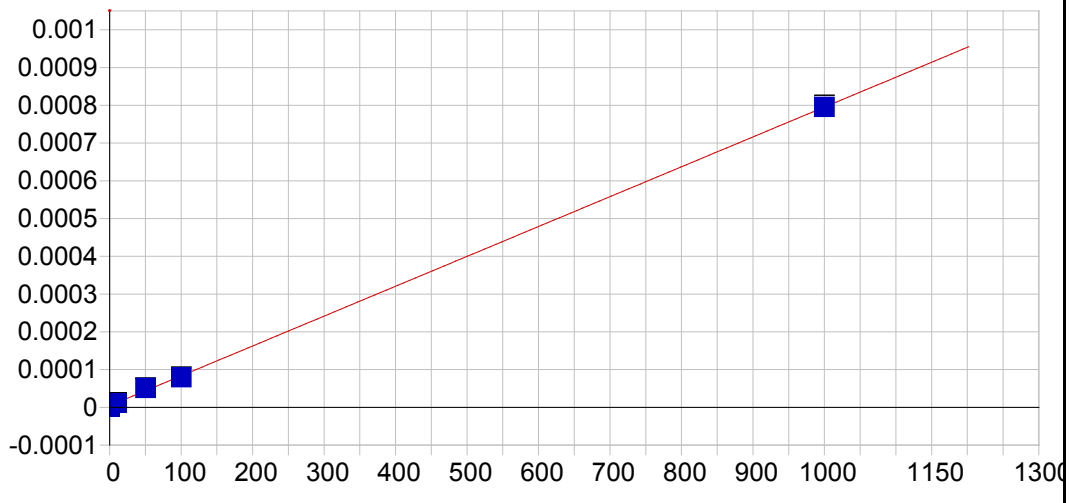



**Sb 217.581 {455}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000004 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999971 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 2.500180 | | |
| Predicted MQL: | 8.333935 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00093 | -.001 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 996.62 | -3.38 | -.338 | .00176 | .000 | 1 |
| CalStd6=20 | 20.000 | 22.902 | 2.90 | 14.5 | .00004 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.315 | 1.32 | 13.2 | .00002 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.733 | -.267 | -.267 | .00018 | .000 | 1 |
| CalStd4=5 | 5.0000 | 4.5771 | -.423 | -8.46 | .00001 | .000 | 1 |
| CalStd10=10 | 10000. | 9999.8 | -.151 | -.002 | .01762 | .000 | 1 |

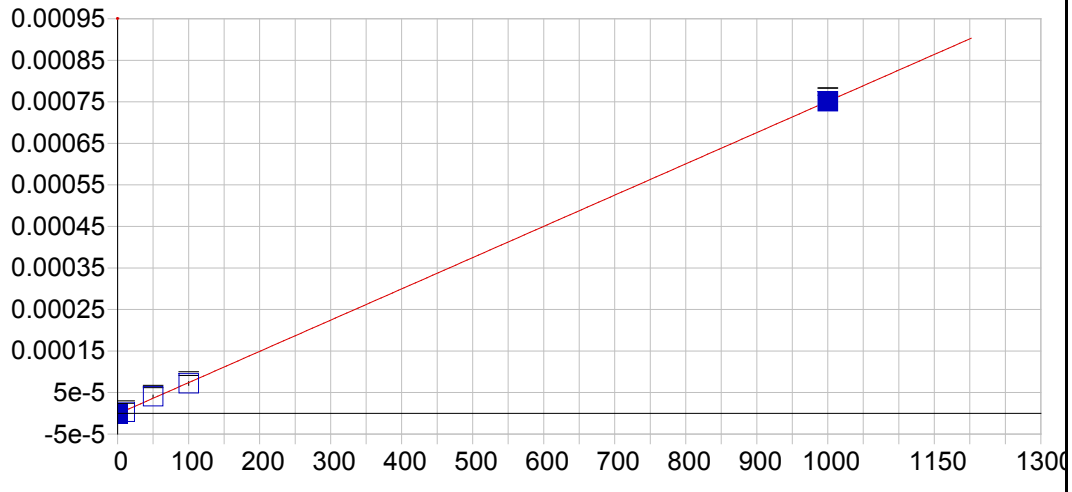



**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | None |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000004 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999916 | Status: | OK. |
| Std Error of Est: | 0.000005 | | |
| Predicted MDL: | 4.032290 | | |
| Predicted MQL: | 13.440965 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -3.7620 | -3.76 | .000 | .00000 | .000 | 1 |
| CalStd7=50 | 50.000 | 59.255 | 9.25 | 18.5 | .00005 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1000.0 | .042 | .004 | .00080 | .000 | 1 |
| CalStd5=10 | 10.000 | 9.4549 | -.545 | -5.45 | .00001 | .000 | 1 |
| CalStd8=100 | 100.00 | 95.011 | -4.99 | -4.99 | .00008 | .000 | 1 |

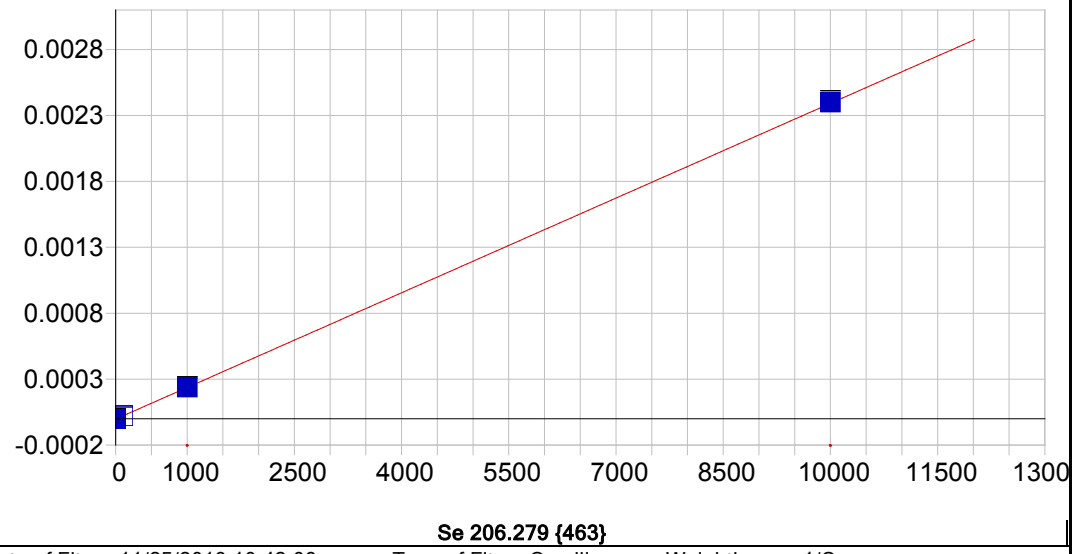



**Se 203.985 {465}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999091 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 6.341972 | | |
| Predicted MQL: | 21.139907 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00257 | .003 | .000 | -.00000 | .000 | 1 |
| CalStd7=50 | 50.000 | 56.239 | 6.24 | 12.5 | .00004 | .000 | 1 |
| CalStd9=100 | 1000.0 | 999.85 | -.154 | -.015 | .00075 | .000 | 1 |
| CalStd5=10 | 10.000 | 6.4375 | -3.56 | -35.6 | .00000 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.478 | -2.52 | -2.52 | .00007 | .000 | 1 |

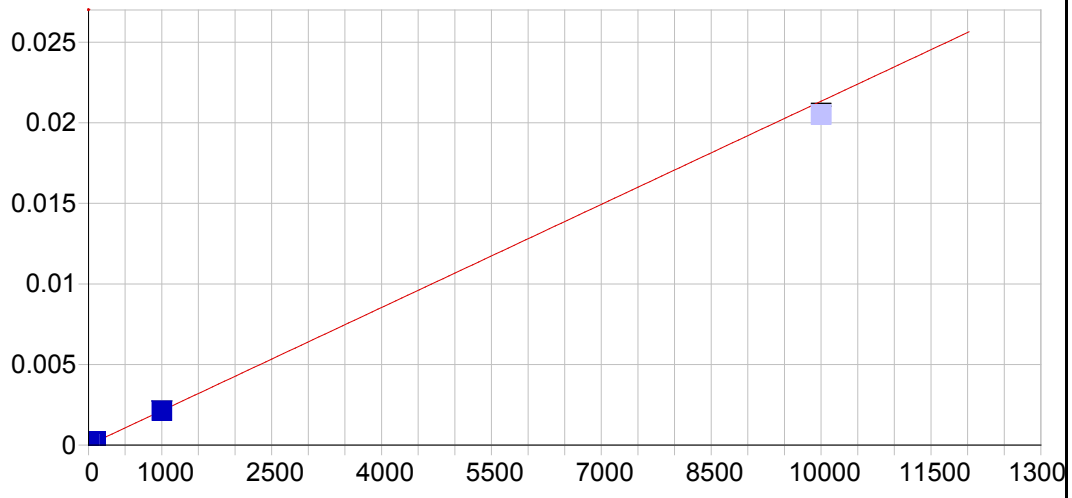



**Se 206.279 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000003 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999981 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 22.084522 | | |
| Predicted MQL: | 73.615072 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00556 | .006 | .000 | -.00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1007.2 | 7.17 | .717 | .00024 | .000 | 1 |
| CalStd10=10 | 10000. | 10032. | 31.6 | .316 | .00240 | .000 | 1 |
| CalStd8=100 | 100.00 | 93.765 | -6.23 | -6.23 | .00002 | .000 | 1 |

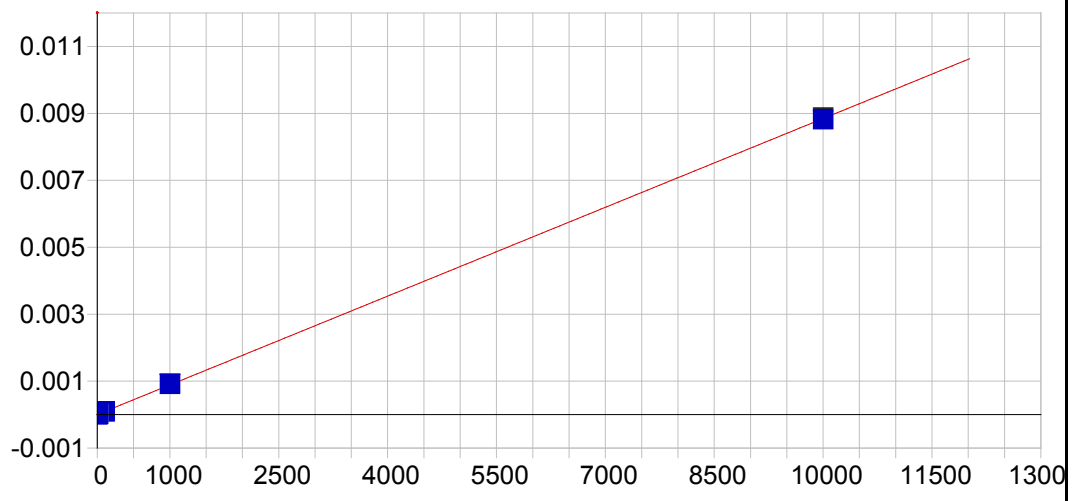



**Tl 190.856 {476}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000003 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999887 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 1.871892 | | |
| Predicted MQL: | 6.239641 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00161 | -.002 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 997.18 | -2.82 | -.282 | .00213 | .000 | 1 |
| CalStd8=100 | 100.00 | 101.32 | 1.32 | 1.32 | .00022 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.502 | 1.50 | 15.0 | .00003 | .000 | 1 |
| CalStd10=10 | 10000. | 9607.2 | -393. | -3.93 | .02052 | .000 | 0 |

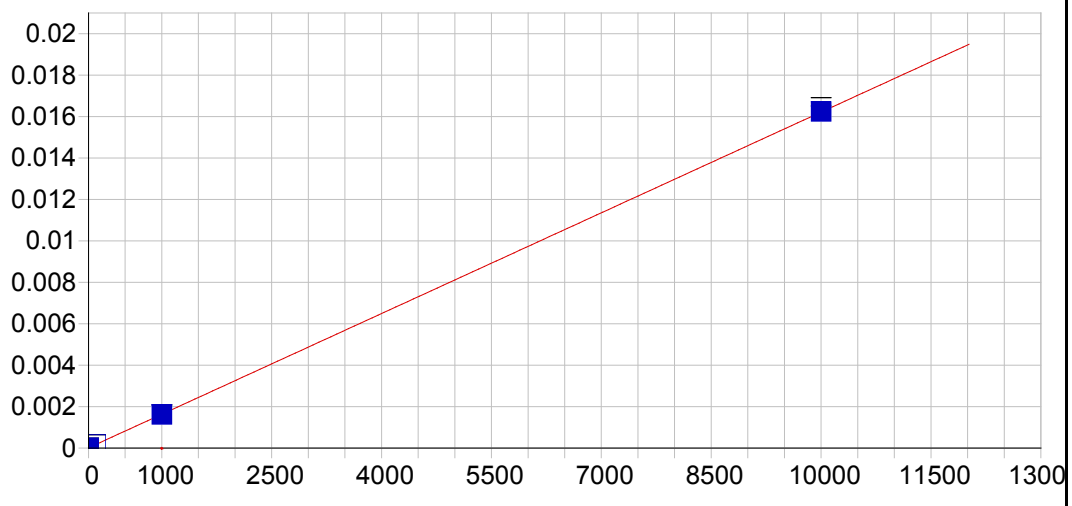



**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000002 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999953 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 3.536069 | | |
| Predicted MQL: | 11.786896 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00164 | -.002 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1027.6 | 27.6 | 2.76 | .00091 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.898 | -.102 | -.102 | .00009 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.399 | 1.40 | 14.0 | .00001 | .000 | 1 |
| CalStd10=10 | 10000. | 9971.1 | -28.9 | -.289 | .00883 | .000 | 1 |

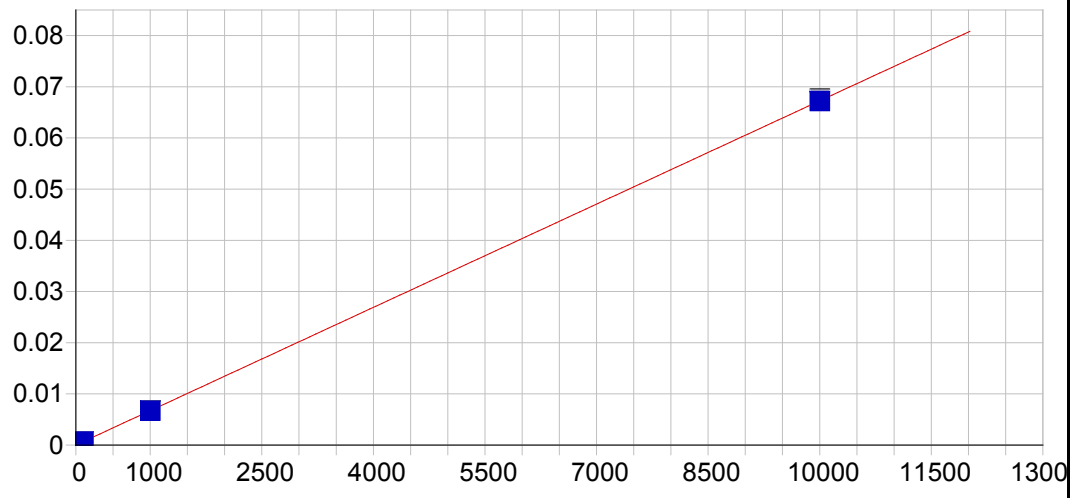



V 290.882 {116}

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000012 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999992 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 2.925235 | | |
| Predicted MQL: | 9.750784 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00248 | .002 | .000 | .00001 | .000 | 1 |
| CalStd9=100 | 1000.0 | 988.09 | -11.9 | -1.19 | .00161 | .000 | 1 |
| CalStd10=10 | 10000. | 10013. | 13.3 | .133 | .01624 | .000 | 1 |
| CalStd8=100 | 100.00 | 98.582 | -1.42 | -1.42 | .00017 | .000 | 1 |

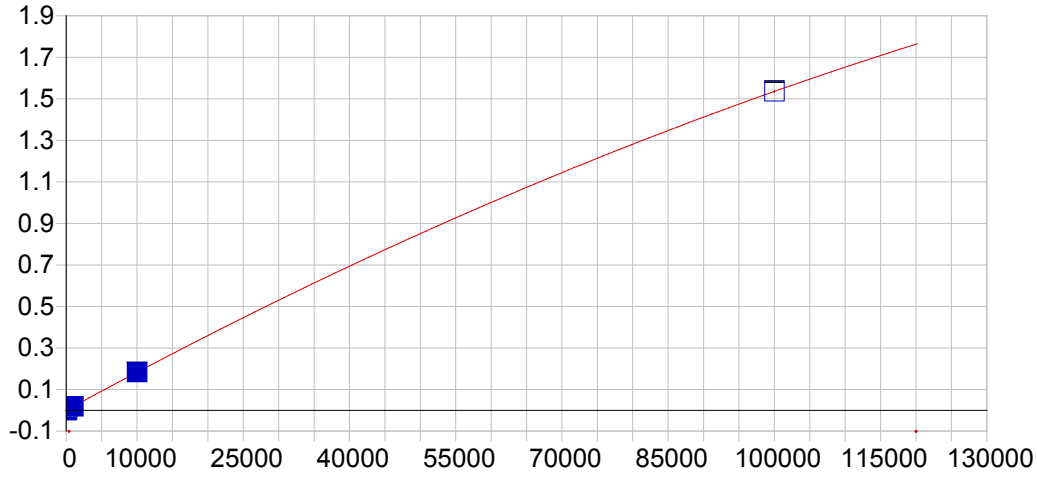



**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000002 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000007 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999813 | Status: | OK. |
| Std Error of Est: | 0.000002 | | |
| Predicted MDL: | 0.516099 | | |
| Predicted MQL: | 1.720330 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00609 | -.006 | .000 | .00000 | .000 | 1 |
| CalStd7=50 | 50.000 | 61.721 | 11.7 | 23.4 | .00042 | .000 | 1 |
| CalStd9=100 | 1000.0 | 995.87 | -4.13 | -.413 | .00670 | .000 | 1 |
| CalStd6=20 | 20.000 | 24.815 | 4.82 | 24.1 | .00017 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.549 | 1.55 | 15.5 | .00008 | .000 | 1 |
| CalStd8=100 | 100.00 | 98.388 | -1.61 | -1.61 | .00066 | .000 | 1 |
| CalStd10=10 | 10000. | 9987.7 | -12.3 | -.123 | .06740 | .000 | 1 |

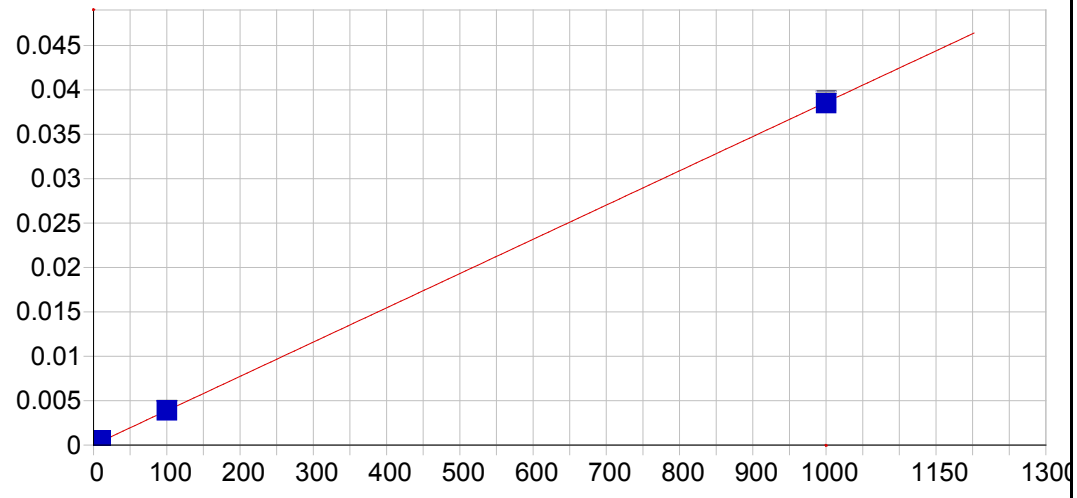



**Zn 206.200 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000019 | Y-int: | 0.000000 |
| A2 (Curvature): | -0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999996 | Status: | OK. |
| Std Error of Est: | 0.000002 | | |
| Predicted MDL: | 0.235037 | | |
| Predicted MQL: | 0.783457 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| CalStd10=10 | 10000. | 10008. | 7.55 | .075 | .18357 | .000 | 1 |
| Blank | .00000 | -.00221 | -.002 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 992.00 | -8.00 | -.800 | .01849 | .000 | 1 |
| CalStd12=10 | 100000. | 99999. | -1.00 | -.001 | 1.5357 | .004 | 1 |
| CalStd5=10 | 10.000 | 12.389 | 2.39 | 23.9 | .00023 | .000 | 1 |
| CalStd8=100 | 100.00 | 98.948 | -1.05 | -1.05 | .00185 | .000 | 1 |

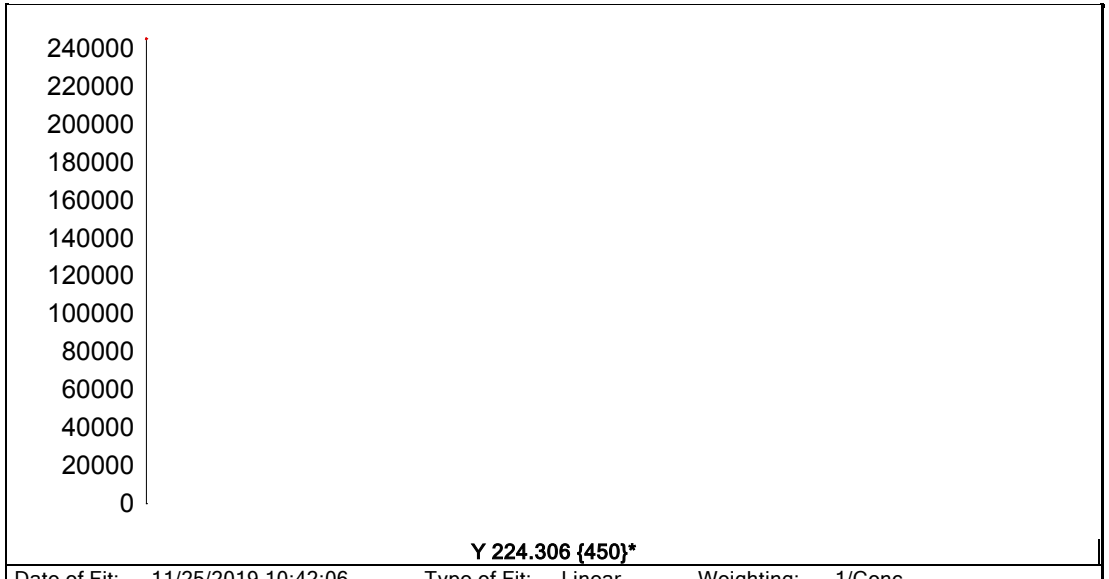



**Zn 213.856 {457}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000020 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000039 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999721 | Status: | OK. |
| Std Error of Est: | 0.000004 | | |
| Predicted MDL: | 0.121355 | | |
| Predicted MQL: | 0.404517 | | |

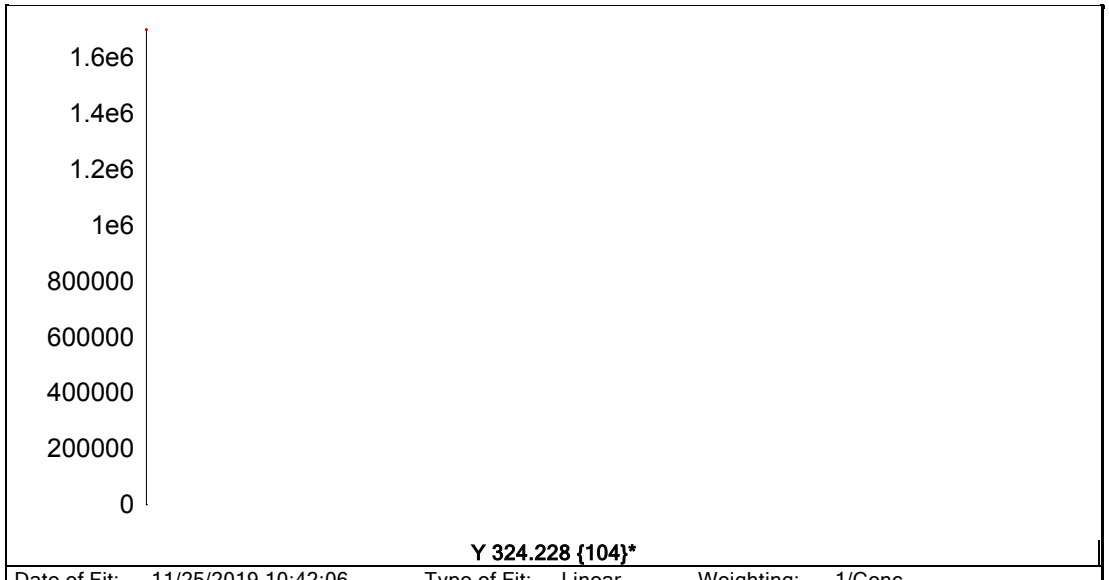
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00249 | -.002 | .000 | .00002 | .000 | 1 |
| CalStd9=100 | 1000.0 | 997.24 | -2.76 | -.276 | .03876 | .000 | 1 |
| CalStd5=10 | 10.000 | 12.487 | 2.49 | 24.9 | .00050 | .000 | 1 |
| CalStd8=100 | 100.00 | 100.28 | .285 | .285 | .00391 | .000 | 1 |




| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

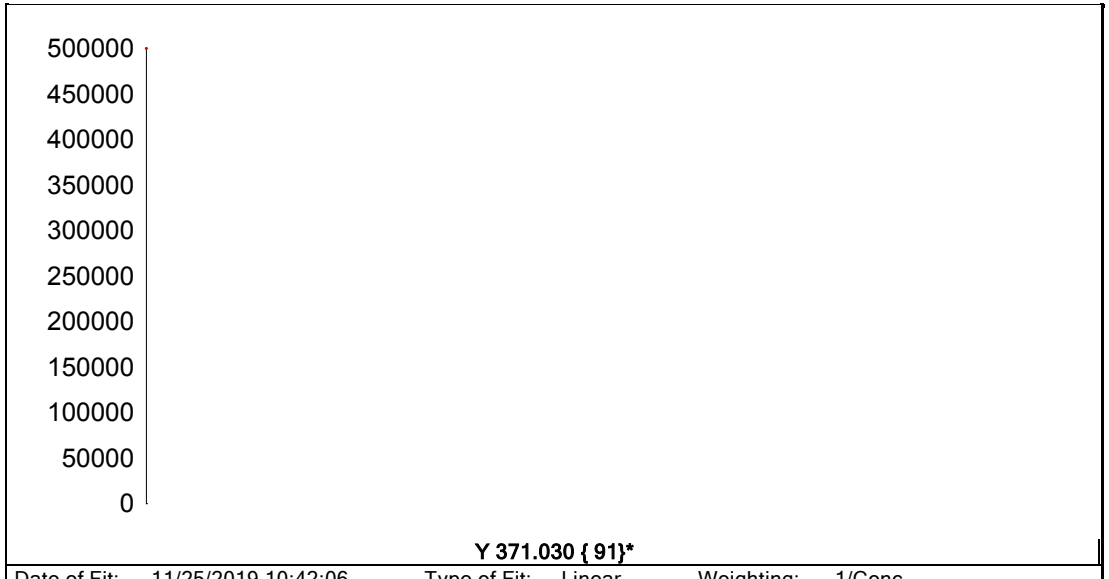
| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.000000 | Status: | Warning Zero Gain |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | n/a | | |
| Predicted MQL: | n/a | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00000 | .000 | .000 | 227180. | 4910. | 1 |



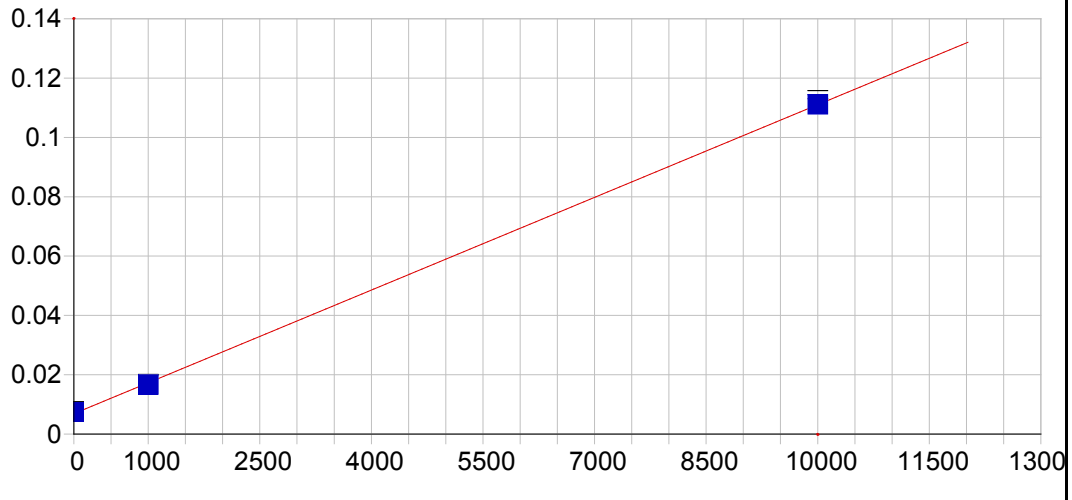

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |
| A0 (Offset): | 0.000000 | | Re-Slope: | 1.000000 | |
| A1 (Gain): | 0.000000 | | Y-int: | 0.000000 | |
| A2 (Curvature): | 0.000000 | | | | |
| n (Exponent): | 1.000000 | | | | |
| Correlation: | 0.000000 | | Status: | Warning | Zero Gain |
| Std Error of Est: | 0.000000 | | | | |
| Predicted MDL: | n/a | | | | |
| Predicted MQL: | n/a | | | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00000 | .000 | .000 | 1573200. | 3230. | 1 |




| | | | | | | |
|---|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc | |
| A0 (Offset): | 0.000000 | | Re-Slope: | 1.000000 | | |
| A1 (Gain): | 0.000000 | | Y-int: | 0.000000 | | |
| A2 (Curvature): | 0.000000 | | | | | |
| n (Exponent): | 1.000000 | | | | | |
| Correlation: | 0.000000 | | Status: | Warning | Zero Gain | |
| Std Error of Est: | 0.000000 | | | | | |
| Predicted MDL: | n/a | | | | | |
| Predicted MQL: | n/a | | | | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00000 | .000 | .000 | 414320. | 2260. | 1 |

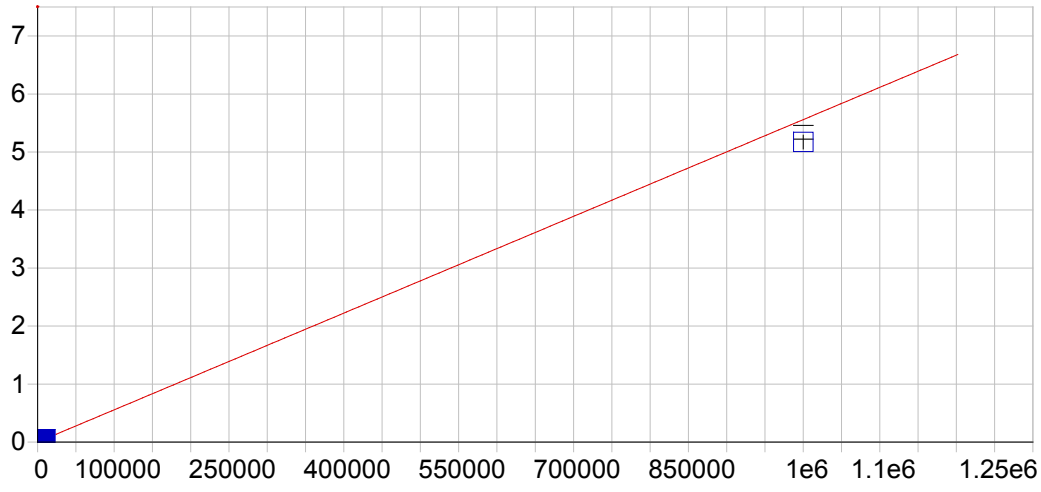



**Na 588.995 { 57}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | None |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.006899 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000010 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999943 | Status: | OK. |
| Std Error of Est: | 0.000869 | | |
| Predicted MDL: | 3.492393 | | |
| Predicted MQL: | 11.641310 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | 55.686 | 55.7 | .000 | .00748 | .000 | 1 |
| CalStd9=100 | 1000.0 | 938.13 | -61.9 | -6.19 | .01667 | .000 | 1 |
| CalStd10=10 | 10000. | 10006. | 6.19 | .062 | .11112 | .001 | 1 |

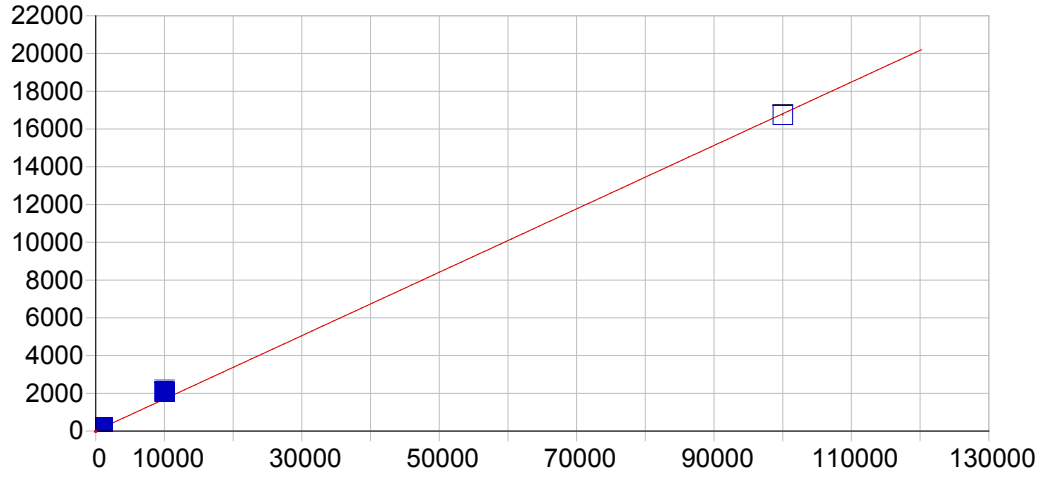



**Na 589.592 { 57}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000083 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000006 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999665 | Status: | OK. |
| Std Error of Est: | 0.000096 | | |
| Predicted MDL: | 5.031073 | | |
| Predicted MQL: | 16.770244 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -1.1715 | -1.17 | .000 | .00008 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1007.6 | 7.62 | .762 | .00568 | .000 | 1 |
| CalStd10=10 | 10000. | 10105. | 105. | 1.05 | .05625 | .001 | 1 |
| CalibStd15= | 1000000. | 930340. | -69700. | -6.97 | 5.1711 | .118 | 1 |

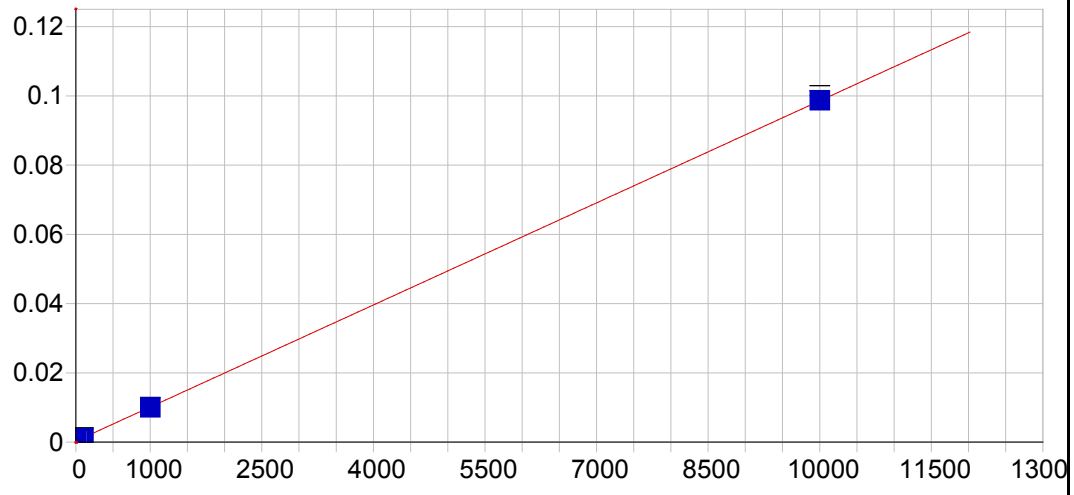



**Si 251.611 {134}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 15.333740 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.167946 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999694 | Status: | OK. |
| Std Error of Est: | 18.415269 | | |
| Predicted MDL: | 7.849349 | | |
| Predicted MQL: | 26.164497 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -77.279 | -77.3 | .000 | 2.3551 | .706 | 1 |
| CalStd9=100 | 1000.0 | 1021.1 | 21.1 | 2.11 | 200.07 | .385 | 1 |
| CalStd10=10 | 10000. | 12306. | 2310. | 23.1 | 2166.2 | 12.1 | 1 |
| CalibStd15= | 100000. | 99625. | -375. | -.375 | 16747. | 10.8 | 1 |

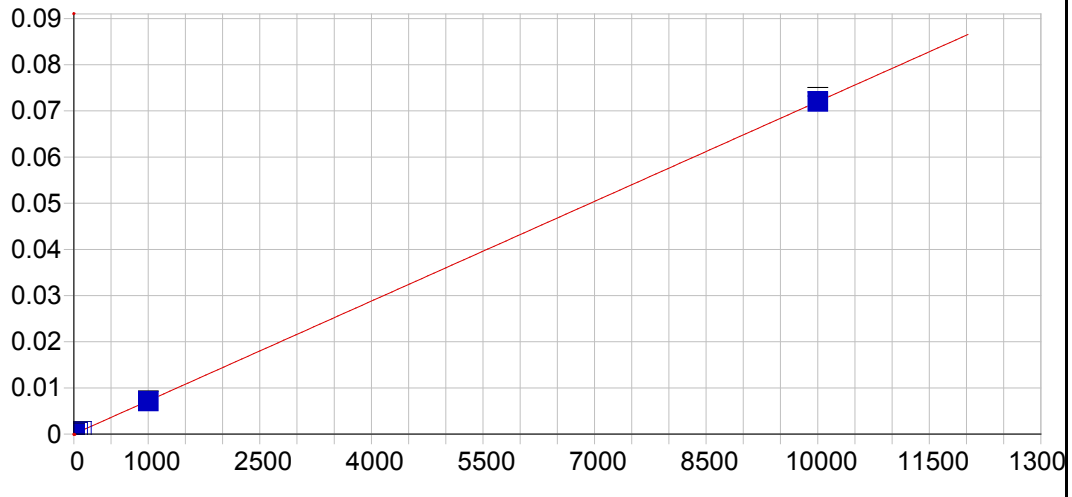



**Ti 323.452 {104}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000296 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000010 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999869 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.815692 | | |
| Predicted MQL: | 2.718972 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00023 | .000 | .000 | .00030 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.685 | .685 | 6.85 | .00040 | .000 | 1 |
| CalStd8=100 | 100.00 | 95.271 | -4.73 | -4.73 | .00123 | .000 | 1 |
| CalStd9=100 | 1000.0 | 985.63 | -14.4 | -1.44 | .00998 | .000 | 1 |
| CalStd10=10 | 10000. | 10009. | 9.43 | .094 | .09876 | .001 | 1 |
| CalStd7=50 | 50.000 | 60.273 | 10.3 | 20.5 | .00089 | .000 | 1 |
| CalStd4=5 | 5.0000 | 3.7062 | -1.29 | -25.9 | .00033 | .000 | 1 |

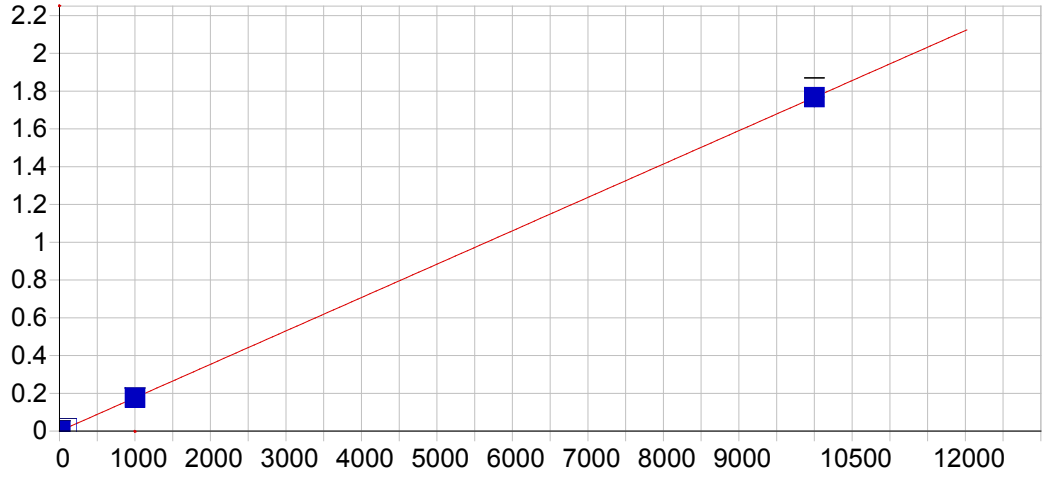



**Ti 334.941 {101}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000005 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000007 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999878 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 0.762274 | | |
| Predicted MQL: | 2.540912 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00122 | -.001 | .000 | .00001 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.650 | .650 | 6.50 | .00008 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.828 | -2.17 | -2.17 | .00071 | .000 | 1 |
| CalStd9=100 | 1000.0 | 989.09 | -10.9 | -1.09 | .00713 | .000 | 1 |
| CalStd10=10 | 10000. | 10001. | 1.28 | .013 | .07202 | .001 | 1 |
| CalStd7=50 | 50.000 | 61.219 | 11.2 | 22.4 | .00045 | .000 | 1 |
| CalStd4=5 | 5.0000 | 4.9399 | -.060 | -1.20 | .00004 | .000 | 1 |

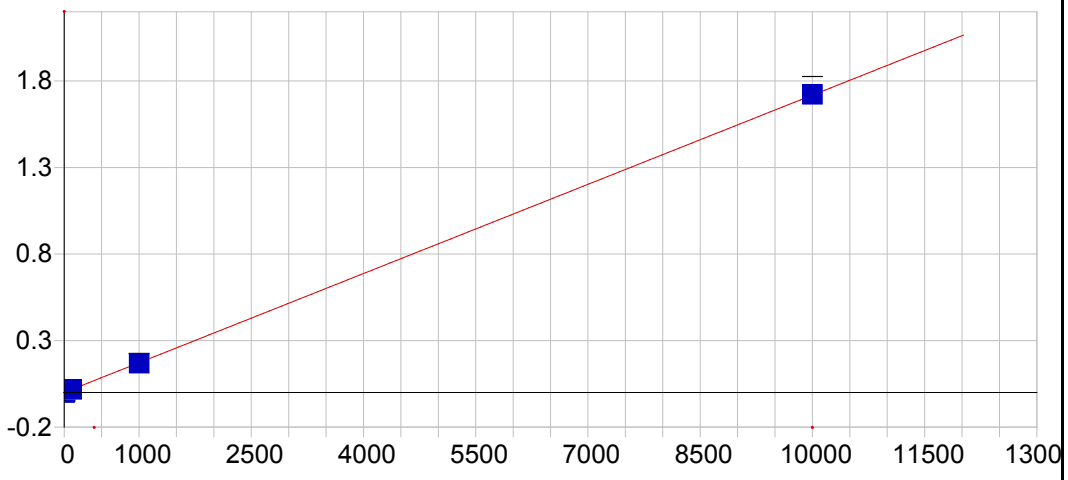



**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000050 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000177 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999984 | Status: | OK. |
| Std Error of Est: | 0.000004 | | |
| Predicted MDL: | 0.069287 | | |
| Predicted MQL: | 0.230957 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00054 | -.001 | .000 | .00005 | .000 | 1 |
| CalStd3=1 | 1.0000 | 1.3756 | .376 | 37.6 | .00029 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.1928 | .193 | 3.86 | .00097 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.347 | 1.35 | 13.5 | .00206 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.016 | -.984 | -.984 | .01755 | .000 | 1 |
| CalStd9=100 | 1000.0 | 997.42 | -2.58 | -.258 | .17632 | .001 | 1 |
| CalStd10=10 | 10000. | 10002. | 1.65 | .016 | 1.7676 | .050 | 1 |

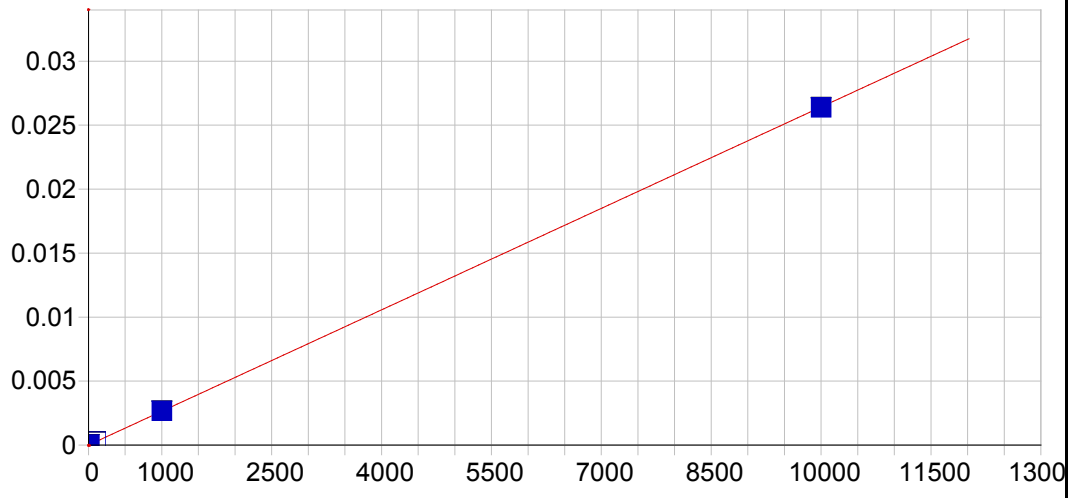



**Sr 421.552 { 80}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000034 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000172 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999961 | Status: | OK. |
| Std Error of Est: | 0.000006 | | |
| Predicted MDL: | 0.070953 | | |
| Predicted MQL: | 0.236510 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00046 | -.000 | .000 | -.00003 | .000 | 1 |
| CalStd3=1 | 1.0000 | 1.3602 | .360 | 36.0 | .00020 | .000 | 1 |
| CalStd4=5 | 5.0000 | 5.1273 | .127 | 2.55 | .00085 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.179 | 1.18 | 11.8 | .00189 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.094 | -2.91 | -2.91 | .01665 | .000 | 1 |
| CalStd9=100 | 1000.0 | 978.65 | -21.4 | -2.14 | .16812 | .001 | 1 |
| CalStd10=10 | 10000. | 10023. | 22.6 | .226 | 1.7221 | .047 | 1 |

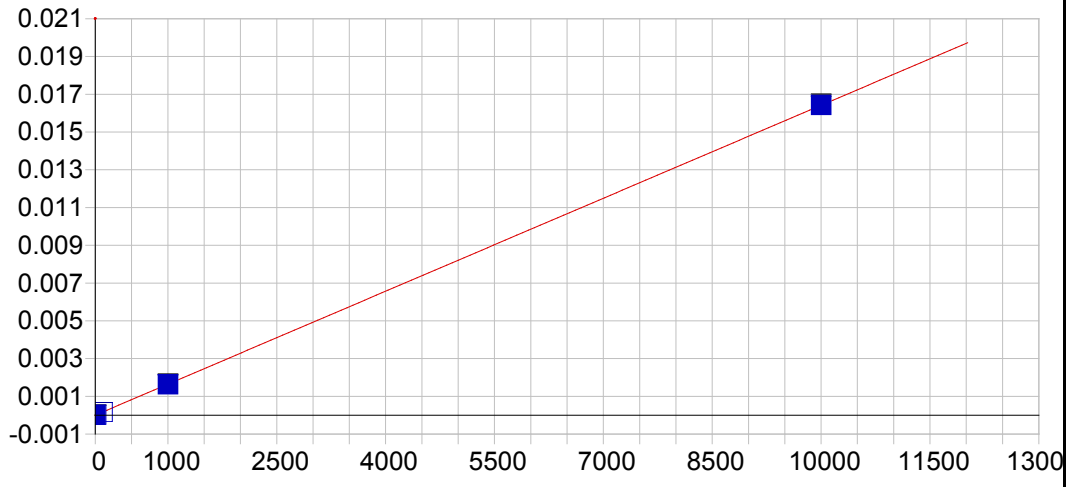



**Sn 189.989 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000002 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000003 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999902 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 1.256155 | | |
| Predicted MQL: | 4.187182 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00474 | -.005 | .000 | .00000 | .000 | 1 |
| CalStd10=10 | 10000. | 9984.0 | -16.0 | -.160 | .02638 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1009.9 | 9.91 | .991 | .00267 | .000 | 1 |
| CalStd8=100 | 100.00 | 101.55 | 1.55 | 1.55 | .00027 | .000 | 1 |
| CalStd5=10 | 10.000 | 14.502 | 4.50 | 45.0 | .00004 | .000 | 1 |

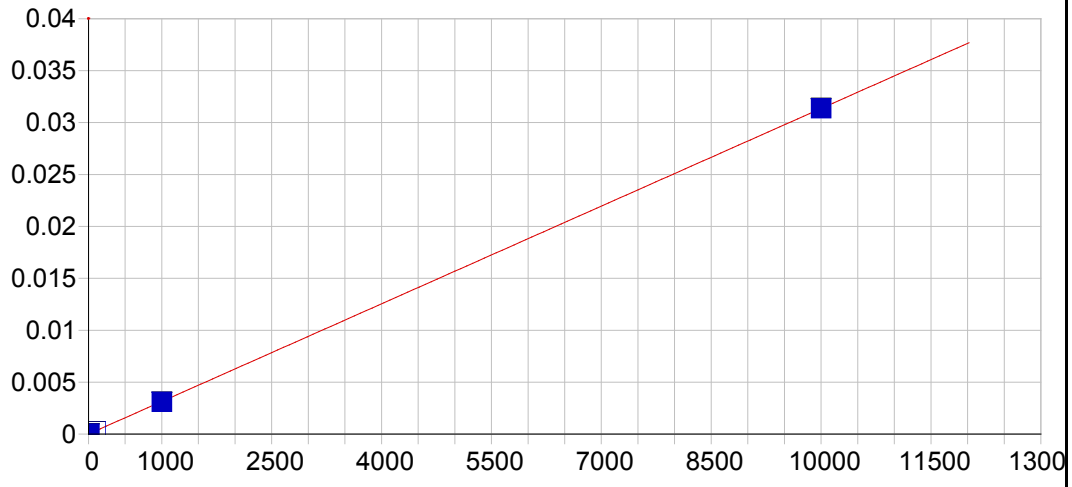



**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999988 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 1.330032 | | |
| Predicted MQL: | 4.433439 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00096 | -.001 | .000 | .00000 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.221 | -2.78 | -2.78 | .00016 | .000 | 1 |
| CalStd5=10 | 10.000 | 11.277 | 1.28 | 12.8 | .00002 | .000 | 1 |
| CalStd9=100 | 1000.0 | 994.99 | -5.01 | -.501 | .00163 | .000 | 1 |
| CalStd10=10 | 10000. | 10007. | 6.51 | .065 | .01643 | .000 | 1 |

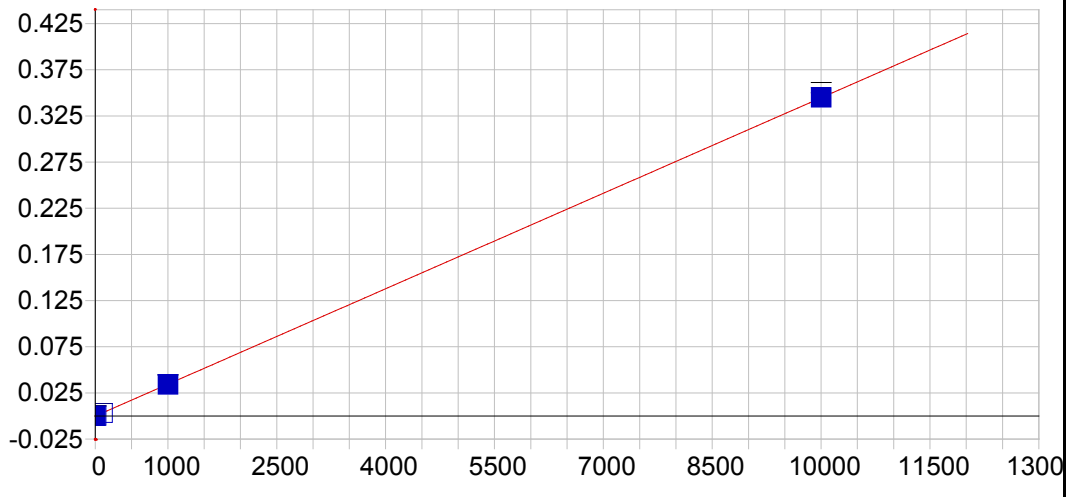



**B 249.773 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Var |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000005 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000003 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999997 | Status: | OK. |
| Std Error of Est: | 0.000006 | | |
| Predicted MDL: | 0.562865 | | |
| Predicted MQL: | 1.876216 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.66815 | -.668 | .000 | .00000 | .000 | 1 |
| CalStd8=100 | 100.00 | 97.089 | -2.91 | -2.91 | .00031 | .000 | 1 |
| CalStd5=10 | 10.000 | 10.733 | .733 | 7.33 | .00004 | .000 | 1 |
| CalStd9=100 | 1000.0 | 983.02 | -17.0 | -1.70 | .00309 | .000 | 1 |
| CalStd10=10 | 10000. | 10002. | 2.04 | .020 | .03138 | .000 | 1 |

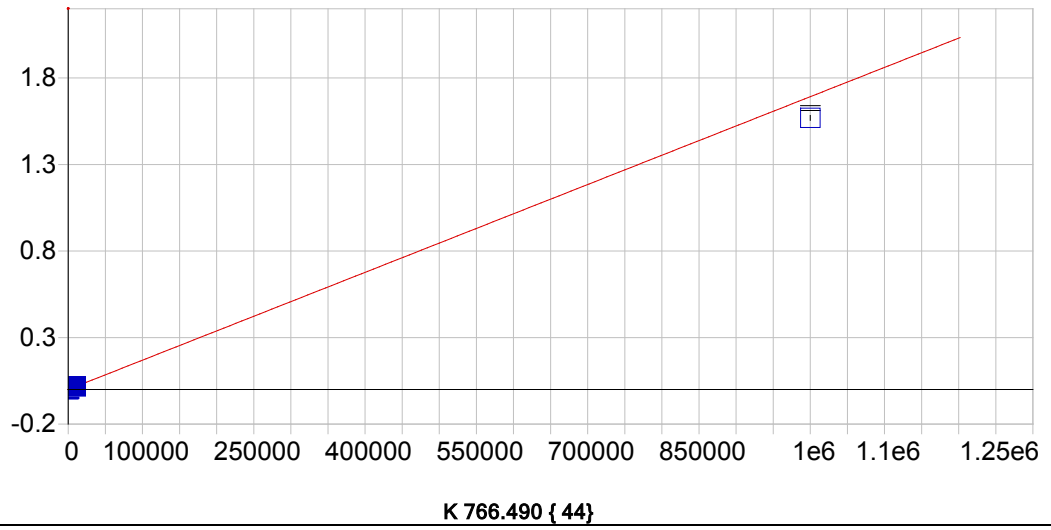



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000060 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000034 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999976 | Status: | OK. |
| Std Error of Est: | 0.000003 | | |
| Predicted MDL: | 0.934681 | | |
| Predicted MQL: | 3.115604 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00190 | -.002 | .000 | -.00006 | .000 | 1 |
| CalStd5=10 | 10.000 | 12.037 | 2.04 | 20.4 | .00035 | .000 | 1 |
| CalStd8=100 | 100.00 | 99.614 | -.386 | -.386 | .00337 | .000 | 1 |
| CalStd9=100 | 1000.0 | 989.38 | -10.6 | -1.06 | .03404 | .000 | 1 |
| CalStd10=10 | 10000. | 10009. | 8.97 | .090 | .34496 | .006 | 1 |

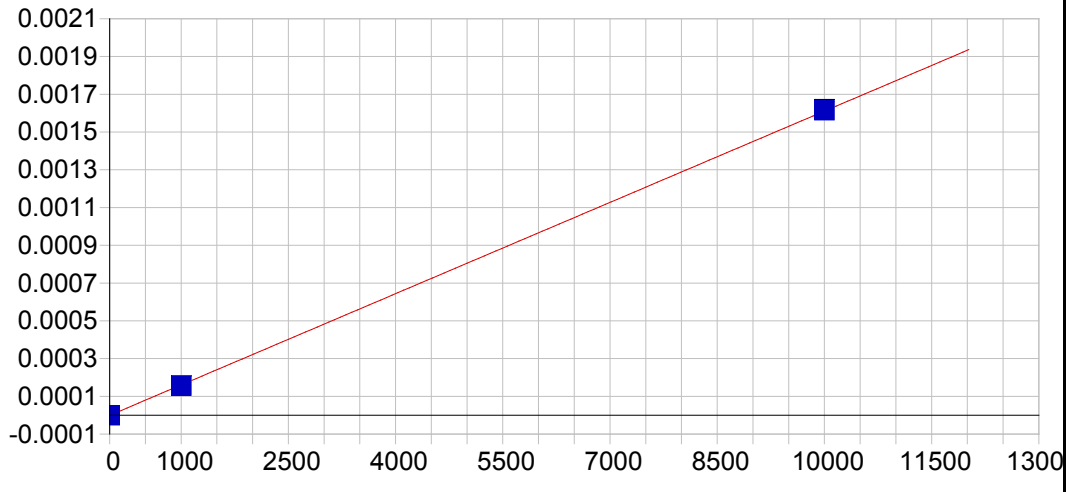



**K 766.490 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000029 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000002 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 1.000000 | Status: | OK. |
| Std Error of Est: | 0.000002 | | |
| Predicted MDL: | 18.885878 | | |
| Predicted MQL: | 62.952927 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .01858 | .019 | .000 | -.00003 | .000 | 1 |
| CalStd9=100 | 1000.0 | 979.26 | -20.7 | -2.07 | .00163 | .000 | 1 |
| CalStd10=10 | 10000. | 10014. | 13.6 | .136 | .01692 | .000 | 1 |
| CalibStd15= | 1000000. | 927420. | -72600. | -7.26 | 1.5691 | .014 | 1 |

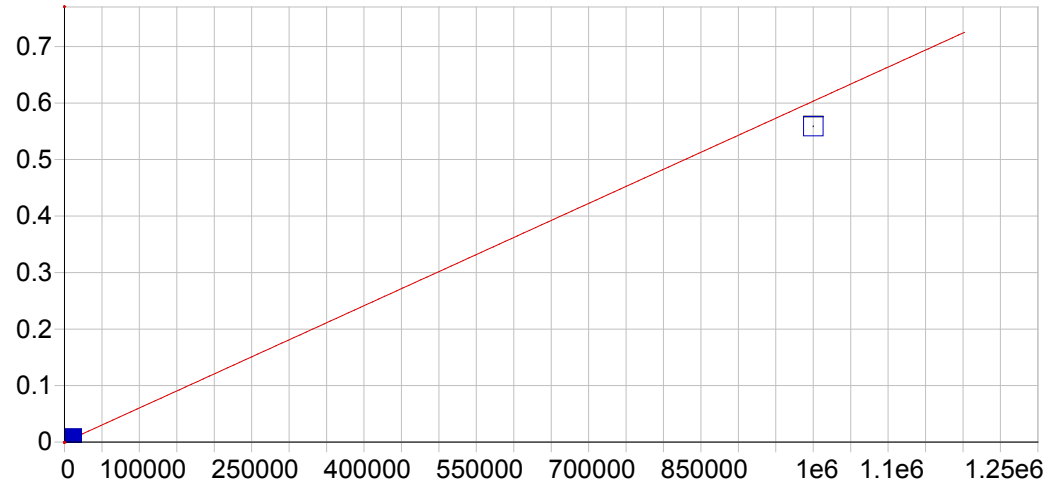



**P 213.618 {457}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999969 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 3.928442 | | |
| Predicted MQL: | 13.094805 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .02225 | .022 | .000 | -.00000 | .000 | 1 |
| CalStd10=10 | 10000. | 10025. | 24.7 | .247 | .00161 | .000 | 1 |
| CalStd9=100 | 1000.0 | 975.27 | -24.7 | -2.47 | .00016 | .000 | 1 |

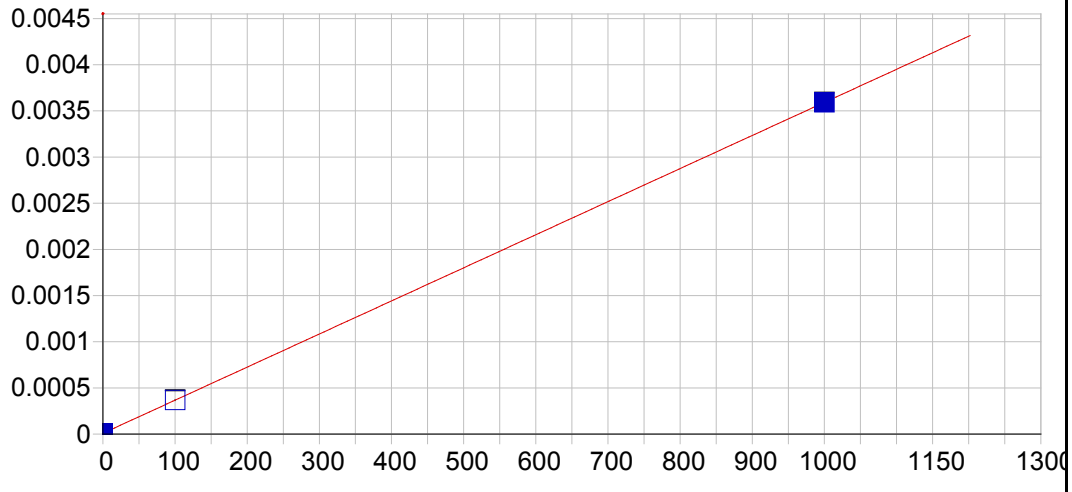



**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Curvilinear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000003 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999999 | Status: | OK. |
| Std Error of Est: | 0.000001 | | |
| Predicted MDL: | 4.594036 | | |
| Predicted MQL: | 15.313454 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .02646 | .026 | .000 | .00000 | .000 | 1 |
| CalStd9=100 | 1000.0 | 970.50 | -29.5 | -2.95 | .00059 | .000 | 1 |
| CalStd10=10 | 10000. | 10022. | 22.3 | .223 | .00606 | .000 | 1 |
| CalibStd15= | 1000000. | 926340. | -73700. | -7.37 | .55888 | .001 | 1 |

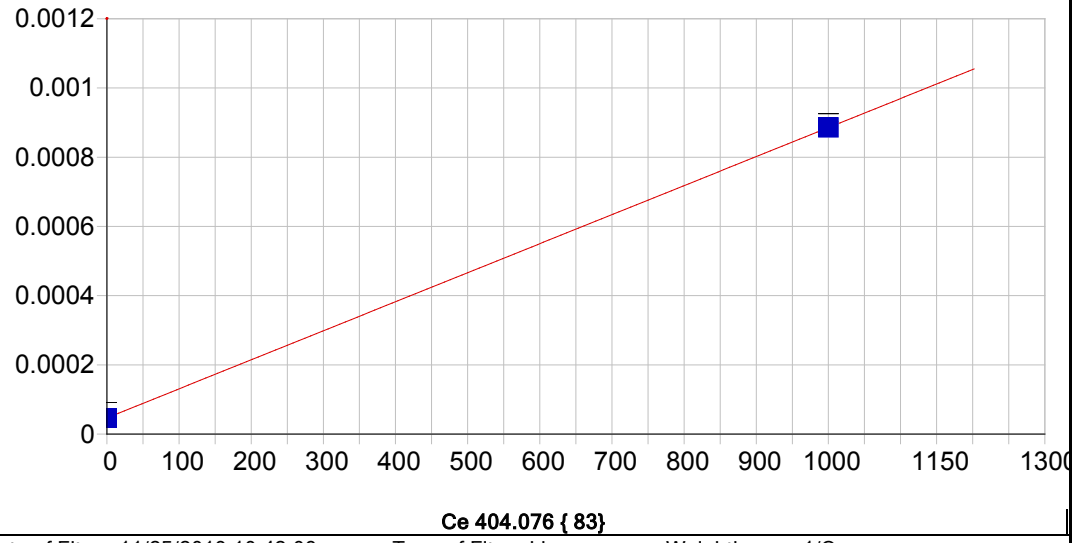



**Hg 184.950 {482}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000009 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000004 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 1.000000 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 0.870348 | | |
| Predicted MQL: | 2.901160 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | -.00014 | -.000 | .000 | .00001 | .000 | 1 |
| CalStd8=100 | 100.00 | 100.16 | .161 | .161 | .00037 | .000 | 1 |
| CalStd9=100 | 1000.0 | 999.84 | -.161 | -.016 | .00359 | .000 | 1 |




**Ce 404.076 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 11/25/2019 10:42:06 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000047 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000001 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 1.000000 | Status: | OK. |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | 14.729147 | | |
| Predicted MQL: | 49.097156 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| Blank | .00000 | .00000 | .000 | .000 | .00005 | .000 | 1 |
| CalStd9=100 | 1000.0 | 1000.0 | .000 | .000 | .00089 | .000 | 1 |

Sample Name: Blank Acquired: 11/20/2019 09:34:57 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | Al3961 | As1937 | As1972 | Ba2335 | Ba4934 | Be3130 | Be2348 | Ca3158 | Ca3968 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-10.7** | **.000** | **.000** | **-.000** | **.904** | **-.000** | **.000** | **.017** | **-.000** | **-.000** | **.000** | **.000** |
| Stddev | 2.9 | .000 | .000 | .000 | .201 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 27.2 | 123. | 13.2 | 21.4 | 22.3 | 819. | 51.9 | .742 | 5.01 | 50.5 | 4.42 | 6.52 |

| Elem | Cd2265 | Cd2288 | Co2286 | Co2388 | Cr2055 | Cr2677 | Cu2230 | Fe2343 | Fe2395 | Fe2599 | Mg2025 | Mg2802 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.000** | **.000** | **.000** | **.000** | **-.000** | **.000** | **.000** | **37.3** | **.000** | **.000** | **-.000** | **.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .7 | .000 | .000 | .000 | .000 |
| %RSD | 76.1 | 14.2 | 68.3 | 28.5 | 47.2 | 1600. | 42.9 | 2.00 | 54.3 | 299. | 53.6 | 1.56 |

| Elem | Mn2576 | Mn2593 | Mo2020 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Pb2203 | Sb2068 | Sb2175 | Se1960 | Se2062 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.000** | **-.000** | **-.000** | **-.000** | **.000** | **-.000** | **.000** | **.000** | **-.000** | **.000** | **.000** | **-.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 29.2 | 260. | 166. | 109. | 33800. | 14.3 | 48.9 | 36.8 | 144. | 38.7 | 134. | 166. |

| Elem | Tl1908 | V_2908 | V_2924 | Zn2062 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **-.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 87.6 | 19.9 | 50.0 | 477. | 12.0 | 98.2 | 67.2 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **227180.** | **1573200.** | **414320.** |
| Stddev | 4911. | 3227. | 2258. |
| %RSD | 2.1617 | .20513 | .54509 |

Sample Name: CalStd2=0.5 Acquired: 11/20/2019 09:41:41 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Be3130 | Cd2265 | Cd2288 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | -.000 | .000 | .000 |
| Stddev | .000 | .000 | .000 |
| %RSD | 15.1 | 33.8 | 3.03 |

| Int. Std. | Y_2243 | Y_3242 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | 208820. | 1478600. |
| Stddev | 828. | 7408. |
| %RSD | .39647 | .50101 |

Sample Name: CalStd3=1 Acquired: 11/20/2019 09:48:24 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ba2335 | Be3130 | Cd2265 | Cd2288 | Co2286 | Cr2055 | Ni2316 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-8.83** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **-.000** |
| Stddev | 5.22 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 59.2 | 14.0 | 11.9 | 24.8 | 7.01 | 11.4 | 38.4 | 88.5 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **210250.** | **1481200.** | **408230.** |
| Stddev | 646. | 7953. | 2397. |
| %RSD | .30725 | .53693 | .58720 |

Sample Name: CalStd4=5 Acquired: 11/20/2019 09:54:40 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ba2335 | Be3130 | Cd2265 | Cd2288 | Co2286 | Cr2055 | Cr2677 | Mn2576 | Mo2020 | Mo2045 | Ni2316 | Pb2203 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 3.88 | .996 | .818 | 3.87 | 3.13 | 6.58 | 17.9 | 2.34 | 7.08 | 17.4 | 14.0 | 13.1 |

| Elem | Sb2175 |
|---|---|
| Units | Cts/S |
| Avg | **.000** |
| Stddev | .000 |
| %RSD | 63.8 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **210870.** | **1483700.** | **414620.** |
| Stddev | 695. | 10535. | 3883. |
| %RSD | .32939 | .71004 | .93657 |

Sample Name: CalStd5=10 Acquired: 11/20/2019 10:00:56 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Al1670 | As1937 | As1972 | Ba2335 | Be3130 | Cd2265 | Cd2288 | Co2286 | Cr2055 | Cr2677 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **30.6** | **.000** | **3.96** | **.000** | **.000** | **.001** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** |
| Stddev | 2.4 | .000 | .58 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 7.93 | 4.62 | 14.6 | 27.8 | 3.24 | 1.08 | .780 | 1.14 | 1.48 | 3.05 | 2.05 | 6.53 |

| Elem | Mn2576 | Mo2020 | Mo2045 | Ni2316 | Pb2169 | Pb2203 | Sb2068 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2062 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 1.58 | 3.54 | 5.50 | 3.09 | 19.2 | 10.4 | 12.1 | 11.1 | 11.3 | 6.14 | 2.76 | 1.30 |

| Elem | Zn2138 | B_2497 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **.001** | **.000** |
| Stddev | .000 | .000 |
| %RSD | .726 | 3.51 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **210360.** | **1495700.** | **416090.** |
| Stddev | 568. | 9540. | 2185. |
| %RSD | .26982 | .63786 | .52506 |

Sample Name: CalStd6=20 Acquired: 11/20/2019 10:07:11 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ba2335 | Cu2230 | Mn2576 | Mo2020 | Mo2045 | Sb2175 | V_2924 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 1.45 | 1.76 | .938 | 1.46 | 2.84 | 10.8 | .345 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **210060.** | **1488300.** | **410140.** |
| Stddev | 759. | 8419. | 1856. |
| %RSD | .36135 | .56567 | .45249 |

Sample Name: CalStd7=50 Acquired: 11/20/2019 10:13:22 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | As1937 | As1972 | Be2348 | Cd2265 | Cd2288 | Co2286 | Cr2055 | Cr2677 | Cu2230 | Mn2576 | Mo2020 | Mo2045 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **16.7** | **.000** | **.001** | **.001** | **.003** | **.001** | **.001** | **.000** | **.000** | **.001** | **.000** | **.000** |
| Stddev | .2 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 1.44 | 4.23 | .808 | .383 | .630 | .538 | .266 | .443 | 2.00 | .693 | .863 | 1.07 |

| Elem | Ni2316 | Sb2068 | Se1960 | V_2924 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.001** | **.000** | **.000** | **.000** |
| Stddev | .000 | .000 | .000 | .000 |
| %RSD | 1.13 | 2.93 | 2.35 | .485 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **210100.** | **1480600.** | **411900.** |
| Stddev | 479. | 10088. | 3773. |
| %RSD | .22819 | .68131 | .91592 |

Sample Name: CalStd8=100 Acquired: 11/20/2019 10:19:33 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | As1972 | Ba2335 | Ba4934 | Be3130 | Be2348 | Ca3968 | Cd2265 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **344.** | **.000** | **.000** | **27.6** | **.000** | **.001** | **.023** | **.007** | **.001** | **.015** | **.002** | **.004** |
| Stddev | 4. | .000 | .000 | .9 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 1.19 | 4.07 | .588 | 3.33 | 8.60 | .489 | .718 | .309 | .446 | .622 | .226 | .670 |

| Elem | Co2286 | Co2388 | Cr2055 | Cr2677 | Cu2230 | Mg2802 | Mn2576 | Mo2020 | Mo2045 | Ni2216 | Ni2316 | Pb2169 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.002** | **.000** | **.001** | **.000** | **.000** | **.004** | **.001** | **.001** | **.001** | **.001** | **.001** | **.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | .159 | .826 | .303 | .902 | .731 | .433 | .417 | .253 | .686 | .222 | .377 | 2.61 |

| Elem | Pb2203 | Sb2175 | Se1960 | Se2062 | Tl1908 | V_2908 | V_2924 | Zn2062 | Zn2138 | B_2497 |
|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.000** | **.000** | **.000** | **.000** | **.000** | **.000** | **.001** | **.002** | **.004** | **.000** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 1.31 | 3.55 | 1.81 | 26.5 | .489 | 1.80 | .873 | .175 | .547 | 1.09 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **210740.** | **1489300.** | **414890.** |
| Stddev | 374. | 5806. | 2251. |
| %RSD | .17754 | .38985 | .54250 |

Sample Name: CalStd9=1000 Acquired: 11/20/2019 10:25:45 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Al1670 | Al3961 | As1937 | As1972 | Ba2335 | Ba4934 | Be3130 | Be2348 | Ca3158 | Ca3968 | Cd2265 | Cd2288 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.002** | **.002** | **279.** | **.001** | **.009** | **.075** | **.072** | **.009** | **.001** | **.140** | **.020** | **.041** |
| Stddev | .000 | .000 | 1. | .000 | .000 | .001 | .000 | .000 | .000 | .001 | .000 | .000 |
| %RSD | .304 | 1.03 | .306 | .542 | .197 | .675 | .448 | .756 | .846 | .599 | .130 | .248 |

| Elem | Co2286 | Co2388 | Cr2055 | Cr2677 | Cu2230 | Fe2343 | Fe2395 | Fe2599 | Mg2025 | Mg2802 | Mn2576 | Mn2593 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.021** | **.002** | **.011** | **.003** | **.004** | **609.** | **.001** | **.002** | **.002** | **.035** | **.012** | **.006** |
| Stddev | .000 | .000 | .000 | .000 | .000 | 4. | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | .071 | .255 | .069 | .650 | .069 | .701 | 1.15 | .910 | .373 | .515 | .492 | .980 |

| Elem | Mo2020 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Pb2203 | Sb2068 | Sb2175 | Se1960 | Se2062 | Tl1908 | V_2908 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.008** | **.005** | **.014** | **.013** | **.001** | **.003** | **.002** | **.002** | **.001** | **.000** | **.002** | **.002** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | .143 | .132 | .114 | .088 | .197 | .382 | .650 | .153 | .656 | 2.33 | .368 | .671 |

| Elem | V_2924 | Zn2062 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.007** | **.018** | **.039** | **.003** | **.002** |
| Stddev | .000 | .000 | .000 | .000 | .000 |
| %RSD | .434 | .161 | .073 | .677 | 3.24 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **211160.** | **1492300.** | **413820.** |
| Stddev | 272. | 4483. | 3118. |
| %RSD | .12869 | .30037 | .75351 |

Sample Name: CalStd10=10000 Acquired: 11/20/2019 10:31:19 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Al3961 | As1972 | Ba4934 | Ca3158 | Ca3968 | Co2286 | Co2388 | Cr2055 | Cr2677 | Cu2230 | Fe2343 | Fe2395 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.022** | **.006** | **.610** | **.006** | **1.42** | **.203** | **.023** | **.110** | **.029** | **.037** | **5550.** | **.011** |
| Stddev | .000 | .000 | .008 | .000 | .04 | .000 | .000 | .000 | .000 | .000 | 3. | .000 |
| %RSD | 1.42 | .346 | 1.39 | 1.27 | 2.74 | .235 | .294 | .156 | .340 | .237 | .056 | .842 |

| Elem | Fe2599 | Mg2025 | Mg2802 | Mn2576 | Mn2593 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Sb2068 | Sb2175 | Se2062 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.024** | **.015** | **.324** | **.114** | **.063** | **.052** | **.137** | **.131** | **.011** | **.018** | **.018** | **.002** |
| Stddev | .000 | .000 | .003 | .001 | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | 1.16 | .185 | .771 | .705 | 1.40 | .175 | .193 | .135 | .198 | .384 | .319 | .469 |

| Elem | Tl1908 | V_2908 | V_2924 | Zn2062 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.021** | **.016** | **.067** | **.184** | **.031** | **.017** |
| Stddev | .000 | .000 | .000 | .000 | .000 | .000 |
| %RSD | .427 | 1.23 | .352 | .116 | .059 | 1.77 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **207240.** | **1454700.** | **409800.** |
| Stddev | 452. | 5232. | 3313. |
| %RSD | .21792 | .35970 | .80843 |

Sample Name: CalStd12=100K Acquired: 11/20/2019 10:38:01 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Cr2055 | Mn2593 | Pb2169 | Zn2062 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.922** | **.586** | **.109** | **1.54** |
| Stddev | .004 | .001 | .001 | .00 |
| %RSD | .413 | .222 | .476 | .265 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **207190.** | **1470300.** | **407020.** |
| Stddev | 633. | 5888. | 3472. |
| %RSD | .30544 | .40043 | .85308 |

Sample Name: CalStd13=100000 Acquired: 11/20/2019 10:44:39 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Al3961 | Ca3158 | Fe2343 | Fe2395 | Fe2599 | Mg2025 |
|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.236** | **.059** | **54300.** | **.121** | **.258** | **.177** |
| Stddev | .001 | .000 | 88. | .001 | .002 | .000 |
| %RSD | .498 | .576 | .162 | .474 | .743 | .233 |

| Int. Std. | Y_2243 | Y_3710 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **199430.** | **402320.** |
| Stddev | 391. | 2373. |
| %RSD | .19588 | .58971 |

Sample Name: CalStd14=500000 Acquired: 11/20/2019 10:50:35 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Al3961 | Ca3158 | Fe2395 | Fe2599 | Mg2025 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.15** | **.271** | **.530** | **1.11** | **.756** |
| Stddev | .01 | .001 | .003 | .00 | .003 |
| %RSD | .755 | .320 | .562 | .287 | .353 |

| Int. Std. | Y_2243 | Y_3710 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **180670.** | **384410.** |
| Stddev | 226. | 1223. |
| %RSD | .12502 | .31807 |

Sample Name: CalibStd15=1000k Acquired: 11/20/2019 10:57:38 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Al3961 | Ca3158 | Fe2395 | Mg2025 | K_7664 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2.26** | **.516** | **.989** | **1.41** | **1.57** |
| Stddev | .01 | .005 | .009 | .00 | .01 |
| %RSD | .564 | 1.05 | .925 | .159 | .883 |

| Int. Std. | Y_2243 | Y_3710 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **159630.** | **355420.** |
| Stddev | 302. | 3186. |
| %RSD | .18926 | .89646 |

Sample Name: Ag Ba 1000, 50000 Acquired: 11/20/2019 11:05:33 Type: Cal
Method: DOD Calibration Updated 060614(v3620) Mode: IR Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Ba4934 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **3770.** | **.001** | **2.75** |
| Stddev | 23. | .000 | .02 |
| %RSD | .613 | 1.05 | .595 |

| Int. Std. | Y_3710 |
|---|---|
| Units | Cts/S |
| Avg | **410620.** |
| Stddev | 2542. |
| %RSD | .61917 |

Sample Name: icv Acquired: 11/20/2019 11:24:42 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3382 | Al3082 | As1937 | As1972 | Ba4934 | Be3130 | Ca3179 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **51.0** | **10900.** | **1900.** | **1930.** | **2000.** | **47.8** | **9500.** | **9140.** | **47.7** | **494.** | **196.** | **244.** |
| Stddev | .7 | 50. | 3. | 17. | 9. | .1 | 93. | 148. | .2 | 2. | 2. | . |
| %RSD | 1.34 | .459 | .164 | .857 | .452 | .272 | .980 | 1.62 | .425 | .371 | .932 | .007 |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | Mg2790 | Mn2576 | Mo2020 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Pb2203 | Sb2068 | Sb2175 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **5000.** | **9610.** | **487.** | **488.** | **486.** | **481.** | **483.** | **466.** | **489.** | **479.** | **488.** | **1970.** |
| Stddev | 36. | 15. | 2. | 1. | 1. | 2. | 2. | 4. | . | . | 3. | 11. |
| %RSD | .724 | .152 | .492 | .232 | .285 | .429 | .467 | .839 | .058 | .004 | .548 | .553 |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se2062 | Tl1908 | V_2924 | Zn2062 | Zn2138 | K_7664 |
|---|---|---|---|---|---|---|
| Avg | **1930.** | **1920.** | **485.** | **485.** | **490.** | **4860.** |
| Stddev | 21. | 8. | 2. | 2. | 1. | 35. |
| %RSD | 1.09 | .393 | .410 | .389 | .151 | .728 |
| Check ? | None | None | None | None | None | None |
| Value | | | | | | |
| Range | | | | | | |

Sample Name: icv Acquired: 11/20/2019 11:24:42 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | 205160. | 1477100. | 399950. |
| Stddev | 65. | 2198. | 1948. |
| %RSD | .03158 | .14883 | .48695 |

Sample Name: ICVLL Acquired: 11/20/2019 11:30:55 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | Al3961 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | F **38.3** | F **37.3** | **1340.** | **1270.** | **66.6** | **33.7** | **13.8** | **1690.** | **17.4** | **35.1** | **32.3** | **36.6** |
| Stddev | .3 | 1.7 | 3. | 17. | 3.9 | .3 | .1 | 22. | .2 | .2 | .3 | .6 |
| %RSD | .837 | 4.65 | .234 | 1.31 | 5.91 | .809 | .405 | 1.30 | .896 | .590 | .859 | 1.59 |
| Check ? | Chk Fail | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | 60.0 | 60.0 | | | | | | | | | | |
| Range | -30.0% | -30.0% | | | | | | | | | | |

| Elem | Fe2343 | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **1040.** | **1640.** | **33.2** | **35.8** | **34.9** | **33.0** | **69.3** | **70.8** | **72.0** | **34.6** | **37.1** | **68.6** |
| Stddev | 4. | 4. | .2 | .2 | .4 | .7 | 2.0 | 2.3 | 2.2 | .6 | .2 | .7 |
| %RSD | .389 | .265 | .747 | .573 | 1.09 | 2.21 | 2.81 | 3.18 | 3.01 | 1.77 | .505 | .948 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | K_7664 |
|---|---|
| Avg | **16800.** |
| Stddev | 210. |
| %RSD | 1.25 |
| Check ? | Chk Pass |
| Value | |
| Range | |

Sample Name: ICVLL Acquired: 11/20/2019 11:30:55 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **205880.** | **1490400.** | **402740.** |
| Stddev | 124. | 3469. | 3390. |
| %RSD | .06021 | .23274 | .84178 |

Sample Name: icb Acquired: 11/20/2019 11:37:01 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **-.061** | **4.10** | **.485** | **.453** | **-1.11** | **.009** | **.139** | **-.156** | **.110** | **-.368** | **-.666** | **.353** |
| Stddev | .498 | 6.04 | .653 | 1.77 | .33 | .026 | .072 | .082 | .161 | .339 | .858 | 2.72 |
| %RSD | 821. | 148. | 135. | 391. | 29.9 | 279. | 51.6 | 52.7 | 146. | 92.1 | 129. | 770. |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **.059** | **.040** | **-.778** | **.205** | **.099** | **1.77** | **-5.49** | **4.35** | **-.048** | **.120** | **1.42** | **99.6** |
| Stddev | .055 | .040 | .115 | .492 | .886 | 2.63 | 4.66 | 1.19 | .416 | .115 | .33 | 9.6 |
| %RSD | 93.0 | 98.5 | 14.8 | 240. | 898. | 148. | 85.0 | 27.4 | 869. | 95.6 | 23.2 | 9.64 |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **217400.** | **1571500.** | **423580.** |
| Stddev | 356. | 2855. | 3896. |
| %RSD | .16395 | .18165 | .91974 |

Sample Name: MRL/LLOQ Acquired: 11/20/2019 11:49:28 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | F **13.3** | **16.4** | **418.** | **18.2** | **9.14** | **4.11** | **503.** | **5.08** | **10.4** | **9.38** | **11.4** | **322.** |
| Stddev | .5 | 1.6 | 2. | 3.2 | .33 | .05 | 6. | .34 | .3 | .27 | .8 | 2. |
| %RSD | 3.90 | 9.65 | .378 | 17.7 | 3.58 | 1.20 | 1.10 | 6.69 | 2.53 | 2.89 | 6.99 | .695 |
| Check ? | Chk Fail | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | 20.0 | | | | | | | | | | | |
| Range | -30.0% | | | | | | | | | | | |

| Elem | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **496.** | **10.2** | **9.74** | **10.4** | **11.0** | **23.3** | **18.1** | **20.3** | **10.1** | **12.3** | **21.0** | **5130.** |
| Stddev | 7. | .2 | .25 | .4 | 2.3 | 1.4 | 2.6 | 1.8 | .1 | .1 | .7 | 60. |
| %RSD | 1.38 | 1.61 | 2.54 | 4.12 | 20.4 | 5.90 | 14.2 | 8.73 | 1.38 | .475 | 3.37 | 1.18 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **207570.** | **1494200.** | **406050.** |
| Stddev | 185. | 10230. | 4145. |
| %RSD | .08914 | .68466 | 1.0208 |

Sample Name: ICSA Acquired: 11/20/2019 11:55:38 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al3961 | As1937 | Ba2335 | Be3130 | Ca3158 | Cd2265 | Co2286 | Cr2677 | Cu223 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **-.384** | **-.000** | **441000.** | **-.013** | **-.000** | **-.315** | **430000.** | **-.001** | **-1.61** | **3.01** | **.54** |
| Stddev | .612 | 3.83 | 5220. | 9.46 | .523 | .013 | 3880. | .561 | .12 | .48 | 1.9 |
| %RSD | 159. | 13e15 | 1.18 | 71900. | 217000. | 4.27 | .903 | 42000. | 7.26 | 15.9 | 36 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pas |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Fe2395 | Mg2025 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2908 | V_292 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **451000.** | **416000.** | **-1.46** | **-.866** | **-1.33** | **.852** | **.375** | **-1.97** | **1.42** | **9860.** | **943** |
| Stddev | 3210. | 1050. | .28 | .871 | .85 | 3.30 | 2.73 | 11.4 | 1.39 | 65. | 3 |
| %RSD | .711 | .252 | 19.3 | 101. | 64.2 | 387. | 727. | 579. | 97.8 | .654 | .37 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Non |
| High Limit | | | | | | | | | | | |
| Low Limit | | | | | | | | | | | |

| Elem | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|
| Avg | **-3.39** | **.006** | **-83.6** |
| Stddev | .79 | 1.06 | 11.8 |
| %RSD | 23.2 | 16700. | 14.2 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| High Limit | | | |
| Low Limit | | | |

Sample Name: ICSA Acquired: 11/20/2019 11:55:38 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **179910.** | **1317000.** | **378360.** |
| Stddev | 582. | 2750. | 3323. |
| %RSD | .32326 | .20882 | .87825 |

Sample Name: ICSAB Acquired: 11/20/2019 12:02:39 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al3961 | As1937 | As1972 | Ba2335 | Be2348 | Ca3158 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **410.** | **460.** | **453000.** | **489.** | **468.** | **499.** | **467.** | **441000.** | **465.** | **480.** | **498** |
| Stddev | 1. | 6. | 6250. | 8. | 12. | 1. | 4. | 3750. | 1. | 1. | 2 |
| %RSD | .141 | 1.34 | 1.38 | 1.57 | 2.53 | .155 | .865 | .849 | .222 | .168 | .345 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Cr2677 | Cu2230 | Fe2395 | Mg2025 | Mn2576 | Mn2593 | Mo2045 | Ni2216 | Ni2316 | Pb2203 | Sb2068 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **479.** | **511.** | **440000.** | **426000.** | **461.** | **477.** | **1460.** | **458.** | **469.** | **443.** | **473** |
| Stddev | 3. | 4. | 4400. | 1650. | 1. | 11. | 3. | 1. | 1. | 2. | 7 |
| %RSD | .617 | .788 | 1.00 | .386 | .212 | 2.30 | .183 | .208 | .282 | .513 | 1.50 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | |
| Range | | | | | | | | | | | |

| Elem | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2062 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|
| Avg | **507.** | **510.** | **482.** | **505.** | **462.** | **506.** | **493.** | **10700.** |
| Stddev | 8. | 9. | 3. | 1. | 1. | 2. | 5. | 110. |
| %RSD | 1.50 | 1.81 | .707 | .295 | .269 | .412 | .925 | 1.03 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | |
| Range | | | | | | | | |

Sample Name: ICSAB Acquired: 11/20/2019 12:02:39 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **181540.** | **1317300.** | **381380.** |
| Stddev | 658. | 3434. | 3124. |
| %RSD | .36225 | .26066 | .81919 |

Sample Name: ICVLL ag Acquired: 11/20/2019 12:15:28 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **8.80** | **11.8** | **4.99** | **-3.04** | **-1.20** | **.013** | **12.5** | **-.130** | **.035** | **-.371** | **.859** | **50.2** |
| Stddev | .50 | 2.8 | .57 | 2.39 | .20 | .012 | .5 | .203 | .289 | .445 | 1.08 | 7.5 |
| %RSD | 5.73 | 23.8 | 11.4 | 78.6 | 17.1 | 90.1 | 3.77 | 155. | 837. | 120. | 125. | 14.9 |

| Elem | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **6.41** | **.356** | **.183** | **-.161** | **-.617** | **2.21** | **.417** | **3.26** | **.465** | **.572** | **.953** | **66.4** |
| Stddev | .22 | .097 | .535 | .226 | 2.44 | .81 | 2.99 | 1.51 | .358 | .126 | .533 | 14.4 |
| %RSD | 3.38 | 27.1 | 293. | 141. | 396. | 37.0 | 718. | 46.4 | 77.0 | 22.1 | 56.0 | 21.7 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **209690.** | **1496000.** | **401790.** |
| Stddev | 443. | 5326. | 3318. |
| %RSD | .21141 | .35601 | .82574 |

Sample Name: ccv1 Acquired: 11/21/2019 05:56:21 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Al3082 | As1972 | Ba4934 | Be2348 | Ca3158 | Ca3968 | Cd2288 | Co2388 | Cr2055 | Cu2230 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **446.** | **4780.** | **5160.** | **4870.** | **512.** | **4520.** | **4740.** | **545.** | **4920.** | **4940.** | **5200.** | **5410.** |
| Stddev | 2. | 59. | 15. | 68. | 7. | 62. | 61. | 1. | 23. | 17. | 15. | 80. |
| %RSD | .521 | 1.24 | .296 | 1.39 | 1.40 | 1.38 | 1.29 | .192 | .459 | .353 | .285 | 1.48 |
| Check ? | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Mg2025 | Mn2576 | Mn2593 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Sb2068 | Se2062 | Tl1908 | V_2908 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **4940.** | **5170.** | **5200.** | **5260.** | **4940.** | **5030.** | **5160.** | **5080.** | **5450.** | **4800.** | **5170.** | **5060.** |
| Stddev | 29. | 37. | 71. | 22. | 13. | 15. | 22. | 12. | 44. | 21. | 65. | 27. |
| %RSD | .593 | .717 | 1.37 | .426 | .259 | .296 | .433 | .232 | .815 | .438 | 1.26 | .525 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Zn2062 | B_2497 | K_7664 |
|---|---|---|---|
| Avg | **4710.** | **4720.** | **49300.** |
| Stddev | 18. | 11. | 616. |
| %RSD | .385 | .222 | 1.25 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| Value | | | |
| Range | | | |

Sample Name: ccv1 Acquired: 11/21/2019 05:56:21 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **190590.** | **1311400.** | **372150.** |
| Stddev | 760. | 4346. | 4374. |
| %RSD | .39892 | .33142 | 1.1752 |

Sample Name: ccv2 Acquired: 11/21/2019 06:02:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Al1670 | As1937 | As1972 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2055 | Cr2677 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **51.4** | **544.** | **497.** | **524.** | **541.** | **53.4** | **489.** | **49.6** | **501.** | **509.** | **550.** | **547.** |
| Stddev | 1.2 | 2. | 7. | 1. | 1. | .0 | . | .1 | 1. | . | 2. | 1. |
| %RSD | 2.32 | .356 | 1.48 | .152 | .230 | .025 | .026 | .151 | .256 | .048 | .359 | .151 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2343 | Mg2802 | Mn2576 | Mn2593 | Mo2020 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Pb2203 | Sb2068 | Sb2175 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **532.** | **543.** | **536.** | **537.** | **547.** | **537.** | **516.** | **527.** | **526.** | **543.** | **516.** | **511.** |
| Stddev | 2. | 1. | . | 1. | . | 4. | 1. | 1. | 4. | 4. | 2. | 2. |
| %RSD | .365 | .150 | .049 | .219 | .059 | .741 | .288 | .141 | .716 | .650 | .392 | .422 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Tl1908 | V_2924 | Zn2062 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|
| Avg | **508.** | **506.** | **520.** | **483.** | **512.** | **489.** | **5290.** |
| Stddev | 1. | 1. | . | 1. | . | . | 8. |
| %RSD | .128 | .184 | .027 | .269 | .033 | .082 | .143 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

Sample Name: ccv2 Acquired: 11/21/2019 06:02:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **197000.** | **1355200.** | **372870.** |
| Stddev | 392. | 1211. | 1413. |
| %RSD | .19907 | .08937 | .37894 |

Sample Name: ccb Acquired: 11/21/2019 06:08:24 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **-1.21** | **1.62** | **2.43** | **-.355** | **.398** | **.197** | **6.47** | **.069** | **1.03** | **.134** | **.739** | **-.608** |
| Stddev | .47 | 6.27 | .30 | .764 | .130 | .088 | .07 | .140 | .21 | .083 | 1.84 | 1.45 |
| %RSD | 39.3 | 387. | 12.2 | 215. | 32.6 | 44.5 | 1.12 | 201. | 20.7 | 61.9 | 249. | 239. |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **3.55** | **.661** | **2.58** | **1.91** | **.908** | **2.63** | **1.43** | **7.29** | **-.197** | **2.00** | **8.00** | **63.4** |
| Stddev | .96 | .076 | .32 | .09 | 2.79 | 2.64 | .65 | 3.87 | .059 | .24 | .10 | 30.6 |
| %RSD | 27.1 | 11.4 | 12.3 | 4.65 | 308. | 100. | 45.3 | 53.1 | 30.1 | 11.8 | 1.25 | 48.2 |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **207390.** | **1424400.** | **392230.** |
| Stddev | 1137. | 12093. | 364. |
| %RSD | .54812 | .84903 | .09283 |

Sample Name: lcsw74587 Acquired: 11/21/2019 07:13:05 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Al1670 | As1937 | As1972 | Ba2335 | Be3130 | Ca3179 | Cd2265 | Co2286 | Cr2677 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **16.8** | **764.** | **717.** | **824.** | **794.** | **19.7** | **197000.** | **17.8** | **186.** | **80.2** | **100** |
| Stddev | .9 | 2. | 3. | 7. | 4. | .1 | 1500. | .2 | . | .4 | 1 |
| %RSD | 5.41 | .225 | .443 | .790 | .460 | .676 | .759 | 1.18 | .129 | .463 | 1.18 |

| Elem | Fe2343 | Mg2025 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **319.** | **93200.** | **193.** | **.690** | **191.** | **193.** | **198.** | **785.** | **723.** | **199.** | **205** |
| Stddev | 3. | 512. | 1. | .396 | 1. | 1. | 4. | 4. | 2. | 1. | 1 |
| %RSD | 1.06 | .549 | .539 | 57.3 | .448 | .706 | 2.23 | .554 | .272 | .672 | .247 |

| Elem | B_2497 | K_7664 |
|---|---|---|
| Units | ug/L | ug/L |
| Avg | **.925** | **98200.** |
| Stddev | .485 | 452. |
| %RSD | 52.4 | .460 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **180380.** | **1266800.** | **369980.** |
| Stddev | 551. | 2932. | 2427. |
| %RSD | .30538 | .23147 | .65594 |

Sample Name: ccv1 Acquired: 11/21/2019 07:19:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al3082 | As1972 | Ba4934 | Be2348 | Ca3968 | Cd2288 | Co2388 | Cr2055 | Cu2230 | Fe2599 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **437.** | **320.** | **4680.** | **5130.** | **4830.** | **503.** | **4720.** | **537.** | **4900.** | **4930.** | **5160.** | **5120.** |
| Stddev | 2. | 10. | 53. | 11. | 50. | 3. | 32. | 1. | 22. | 6. | 7. | 40. |
| %RSD | .522 | 3.09 | 1.13 | .223 | 1.04 | .543 | .686 | .125 | .449 | .129 | .129 | .789 |
| Check ? | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Mg2025 | Mn2576 | Mn2593 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Sb2068 | Se2062 | Tl1908 | V_2908 | V_2924 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **4890.** | **5090.** | **5150.** | **5210.** | **4910.** | **4990.** | **5130.** | **5070.** | **5350.** | **4790.** | **5040.** | **5030.** |
| Stddev | 19. | 21. | 42. | 3. | 6. | 7. | 18. | 14. | 44. | 10. | 43. | 15. |
| %RSD | .384 | .404 | .820 | .052 | .115 | .136 | .349 | .281 | .821 | .211 | .861 | .306 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Zn2062 | B_2497 | K_7664 |
|---|---|---|---|
| Avg | **4690.** | **4670.** | **49200.** |
| Stddev | 8. | 14. | 491. |
| %RSD | .177 | .304 | .999 |
| Check ? | Chk Pass | Chk Pass | Chk Pass |
| Value | | | |
| Range | | | |

Sample Name: ccv1 Acquired: 11/21/2019 07:19:36 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | 190010. | 1322100. | 374560. |
| Stddev | 446. | 3384. | 2622. |
| %RSD | .23484 | .25597 | .69989 |

Sample Name: ccv2 Acquired: 11/21/2019 07:25:52 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Al1670 | As1937 | As1972 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2055 | Cr2677 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **50.9** | **541.** | **492.** | **525.** | **538.** | **52.8** | **490.** | **49.5** | **504.** | **511.** | **534.** | **546.** |
| Stddev | .9 | 2. | 2. | 3. | 2. | .3 | 3. | .3 | 2. | 1. | 5. | 3. |
| %RSD | 1.70 | .291 | .422 | .514 | .332 | .594 | .642 | .540 | .315 | .269 | .971 | .527 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2343 | Mg2802 | Mn2576 | Mn2593 | Mo2020 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Pb2203 | Sb2068 | Sb2175 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **495.** | **533.** | **526.** | **535.** | **544.** | **535.** | **515.** | **525.** | **531.** | **540.** | **522.** | **515.** |
| Stddev | 1. | 4. | 3. | 1. | 1. | 2. | 1. | 1. | 5. | 3. | 3. | 3. |
| %RSD | .212 | .721 | .576 | .237 | .155 | .325 | .164 | .208 | .900 | .619 | .550 | .553 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Se1960 | Tl1908 | V_2924 | Zn2062 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|
| Avg | **521.** | **515.** | **519.** | **483.** | **515.** | **486.** | **5300.** |
| Stddev | 7. | 2. | 4. | 1. | 1. | 3. | 40. |
| %RSD | 1.28 | .368 | .846 | .237 | .165 | .673 | .749 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | |
| Range | | | | | | | |

Sample Name: ccv2 Acquired: 11/21/2019 07:25:52 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **194620.** | **1363700.** | **374540.** |
| Stddev | 259. | 4588. | 1059. |
| %RSD | .13332 | .33642 | .28283 |

Sample Name: ccb Acquired: 11/21/2019 07:31:40 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **-1.51** | **2.21** | **2.62** | **.582** | **.540** | **.149** | **5.41** | **.004** | **1.73** | **.306** | **1.72** | **-1.94** |
| Stddev | .18 | 4.15 | .47 | 6.53 | .340 | .013 | .01 | .026 | .11 | .664 | 1.28 | 1.61 |
| %RSD | 11.9 | 188. | 17.9 | 1120. | 62.8 | 9.00 | .084 | 621. | 6.04 | 217. | 74.4 | 82.9 |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **1.81** | **1.78** | **2.33** | **1.70** | **-.160** | **1.55** | **2.05** | **6.41** | **1.87** | **2.00** | **5.53** | **31.4** |
| Stddev | .00 | .01 | .75 | .21 | 1.31 | 1.69 | .74 | .28 | .16 | .07 | .74 | 5.0 |
| %RSD | .075 | .748 | 32.2 | 12.3 | 816. | 109. | 36.1 | 4.30 | 8.66 | 3.59 | 13.4 | 15.8 |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **206180.** | **1432300.** | **395170.** |
| Stddev | 309. | 2641. | 50. |
| %RSD | .14976 | .18438 | .01274 |

Sample Name: mbw74587 Acquired: 11/21/2019 07:37:59 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **-.789** | **1.46** | **1.80** | **-1.70** | **-1.25** | **-.030** | **7.14** | **-.390** | **.033** | **-.230** | **2.40** | **42.7** |
| Stddev | .146 | 4.84 | .71 | 1.21 | .14 | .011 | .33 | .086 | .215 | .749 | 1.20 | 1.9 |
| %RSD | 18.4 | 331. | 39.2 | 71.4 | 11.4 | 34.8 | 4.63 | 22.2 | 651. | 326. | 49.9 | 4.35 |

| Elem | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **1.07** | **.460** | **.746** | **-.196** | **-1.48** | **.586** | **-.096** | **8.29** | **.499** | **2.98** | **3.65** | **7.50** |
| Stddev | .03 | .062 | .299 | .225 | 1.43 | .856 | 1.71 | 2.64 | .199 | .06 | .22 | 14.6 |
| %RSD | 2.35 | 13.4 | 40.1 | 115. | 96.8 | 146. | 1780. | 31.8 | 39.9 | 1.94 | 5.99 | 195. |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **195480.** | **1364700.** | **372760.** |
| Stddev | 465. | 4257. | 1500. |
| %RSD | .23773 | .31195 | .40229 |

Sample Name: 356218 Acquired: 11/21/2019 07:44:17 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3158 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **-1.18** | **35.0** | **563.** | **.651** | **441.** | **.318** | **32000.** | **.387** | **2.30** | **1.29** | **16.4** | **466.** |
| Stddev | .42 | 4.9 | 24. | 2.05 | 1. | .019 | 125. | .167 | .17 | .52 | 1.2 | 2. |
| %RSD | 35.8 | 13.9 | 4.31 | 316. | .257 | 5.88 | .390 | 43.2 | 7.53 | 40.3 | 7.58 | .505 |

| Elem | Mg2025 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **25000.** | **75.2** | **.882** | **7.63** | **17.4** | **2.69** | **10.5** | **-4.28** | **2.19** | **91.4** | **171.** | **1650.** |
| Stddev | 80. | .4 | .627 | .47 | .5 | .49 | 3.5 | 2.77 | .77 | .3 | 1. | 30. |
| %RSD | .322 | .557 | 71.1 | 6.23 | 2.94 | 18.1 | 33.0 | 64.8 | 35.4 | .310 | .675 | 1.79 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **171150.** | **1193500.** | **365810.** |
| Stddev | 660. | 3686. | 1470. |
| %RSD | .38544 | .30884 | .40186 |

Sample Name: I356218 Acquired: 11/21/2019 07:51:22 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3158 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **-1.26** | **12.2** | **233.** | **.509** | **87.9** | **.040** | **9210.** | **9870.** | **-.040** | **.253** | **-.539** | **3.80** |
| Stddev | .25 | 3.3 | 20. | 3.28 | 6.5 | .023 | 501. | 440. | .156 | .247 | .493 | 1.04 |
| %RSD | 19.5 | 27.1 | 8.69 | 644. | 7.35 | 56.9 | 5.44 | 4.46 | 388. | 97.9 | 91.4 | 27.4 |

| Elem | Fe2343 | Mg2025 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **168.** | **5240.** | **18.7** | **-.423** | **1.61** | **3.50** | **-.418** | **-.503** | **2.20** | **1.30** | **18.4** | **44.4** |
| Stddev | 8. | 388. | 1.0 | .251 | .33 | .82 | 1.74 | 3.38 | 1.24 | .41 | 1.5 | 2.0 |
| %RSD | 4.50 | 7.40 | 5.44 | 59.2 | 20.6 | 23.3 | 417. | 672. | 56.6 | 31.1 | 7.96 | 4.50 |

| Elem | K_7664 |
|---|---|
| Units | ug/L |
| Avg | **501.** |
| Stddev | 24. |
| %RSD | 4.74 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **188410.** | **1293900.** | **373610.** |
| Stddev | 668. | 9994. | 2887. |
| %RSD | .35456 | .77242 | .77264 |

Sample Name: dup356218 Acquired: 11/21/2019 07:58:32 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3158 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **-.671** | **37.4** | **642.** | **6.87** | **438.** | **.271** | **31000.** | **.237** | **2.23** | **1.71** | **14.0** | **460.** |
| Stddev | .745 | 4.0 | 62. | 2.60 | 1. | .034 | 269. | .171 | .43 | .97 | .5 | 4. |
| %RSD | 111. | 10.6 | 9.63 | 37.8 | .286 | 12.6 | .867 | 72.4 | 19.1 | 56.9 | 3.24 | .855 |

| Elem | Mg2025 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **25800.** | **73.7** | **.457** | **7.52** | **17.0** | **.343** | **11.4** | **-8.18** | **2.20** | **90.3** | **172.** | **1720.** |
| Stddev | 116. | .7 | .181 | .11 | .5 | 1.37 | 5.5 | 1.33 | .35 | .4 | 2. | 16. |
| %RSD | .449 | .928 | 39.6 | 1.48 | 3.07 | 400. | 47.9 | 16.2 | 15.9 | .421 | 1.18 | .924 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **165100.** | **1182600.** | **369930.** |
| Stddev | 827. | 9672. | 2940. |
| %RSD | .50076 | .81784 | .79470 |

Sample Name: msw356218 Acquired: 11/21/2019 08:05:36 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | Al3961 | As1937 | As1972 | Ba4934 | Be3130 | Ca3158 | Cd2265 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **16.0** | **160.** | **1410.** | **1410.** | **688.** | **914.** | **1170.** | **19.6** | **183000.** | **17.4** | **180** |
| Stddev | .6 | 5. | 13. | 3. | 7. | 8. | 5. | .1 | 1040. | .3 | 1 |
| %RSD | 3.56 | 3.03 | .883 | .202 | .958 | .894 | .402 | .702 | .569 | 1.60 | .324 |

| Elem | Cr2677 | Cu2230 | Fe2343 | Fe2599 | Mg2025 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **79.4** | **117.** | **743.** | **1100.** | **121000.** | **253.** | **.981** | **188.** | **194.** | **209.** | **907** |
| Stddev | 1.1 | 2. | 6. | 6. | 667. | 2. | .586 | 1. | 3. | 1. | 9 |
| %RSD | 1.39 | 1.71 | .810 | .557 | .550 | .628 | 59.7 | .456 | 1.36 | .533 | 1.03 |

| Elem | Se2062 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **1020.** | **611.** | **198.** | **294.** | **165.** | **106000.** |
| Stddev | 38. | 2. | 1. | 2. | 1. | 408. |
| %RSD | 3.75 | .326 | .663 | .592 | .401 | .386 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **154320.** | **1125900.** | **372340.** |
| Stddev | 764. | 2690. | 1697. |
| %RSD | .49531 | .23895 | .45582 |

Sample Name: msdw356218 Acquired: 11/21/2019 08:12:18 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | Al3961 | As1937 | As1972 | Ba4934 | Be3130 | Ca3158 | Cd2265 | Co2286 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **16.9** | **166.** | **1430.** | **1440.** | **707.** | **929.** | **1220.** | **20.4** | **188000.** | **18.0** | **184** |
| Stddev | .6 | 5. | 13. | 21. | 6. | 8. | 9. | .2 | 2320. | .3 | 1 |
| %RSD | 3.64 | 2.73 | .875 | 1.44 | .793 | .895 | .748 | 1.10 | 1.23 | 1.94 | .492 |

| Elem | Cr2677 | Cu2230 | Fe2343 | Fe2599 | Mg2025 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **82.3** | **119.** | **753.** | **1110.** | **124000.** | **263.** | **-.193** | **192.** | **197.** | **213.** | **922** |
| Stddev | 1.1 | 1. | 6. | 10. | 617. | 3. | .294 | 1. | 1. | 3. | 4 |
| %RSD | 1.35 | .505 | .815 | .901 | .496 | 1.22 | 153. | .506 | .387 | 1.34 | .468 |

| Elem | Se2062 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **1050.** | **631.** | **205.** | **304.** | **170.** | **109000.** |
| Stddev | 30. | 2. | 3. | 1. | 2. | 566. |
| %RSD | 2.82 | .386 | 1.41 | .243 | .930 | .517 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **155540.** | **1125400.** | **373780.** |
| Stddev | 925. | 6953. | 2387. |
| %RSD | .59482 | .61782 | .63873 |

Sample Name: pdsw356218 Acquired: 11/21/2019 08:18:58 Type: Unk
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al3961 | As1972 | Ba4934 | Be3130 | Ca3158 | Cd2265 | Cd2288 | Co2286 | Cr2055 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **83.9** | **273.** | **4030.** | **4780.** | **4410.** | **98.0** | **337000.** | **86.8** | **132.** | **895.** | **390** |
| Stddev | .2 | 2. | 6. | 51. | 13. | .9 | 2570. | .1 | 1. | 2. | 2 |
| %RSD | .288 | .772 | .149 | 1.07 | .295 | .896 | .760 | .164 | .666 | .192 | .405 |

| Elem | Cr2677 | Cu2230 | Fe2343 | Fe2599 | Mg2025 | Mn2576 | Mn2593 | Mo2020 | Ni2216 | Ni2316 | Pb2169 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **391.** | **541.** | **1740.** | **2540.** | **225000.** | **997.** | **753.** | **-.137** | **885.** | **915.** | **1120** |
| Stddev | 4. | 3. | 15. | 20. | 1480. | 7. | 6. | .483 | 2. | 4. | 17 |
| %RSD | .959 | .489 | .844 | .780 | .657 | .672 | .767 | 354. | .189 | .400 | 1.50 |

| Elem | Pb2203 | Sb2068 | Se2062 | Tl1908 | V_2924 | Zn2062 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Avg | **910.** | **1120.** | **5130.** | **3080.** | **993.** | **894.** | **167.** | **2100.** |
| Stddev | 5. | 8. | 63. | 9. | 6. | 2. | 1. | 20. |
| %RSD | .502 | .703 | 1.23 | .290 | .610 | .246 | .710 | .946 |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S |
| Avg | **148080.** | **1091500.** | **368890.** |
| Stddev | 1131. | 3277. | 1215. |
| %RSD | .76389 | .30027 | .32934 |

Sample Name: ccv1 Acquired: 11/21/2019 08:45:24 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al3082 | As1972 | Ba4934 | Be2348 | Ca3179 | Ca3968 | Cd2288 | Co2388 | Cr2055 | Cu2230 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **439.** | **332.** | **4740.** | **5310.** | **4980.** | **501.** | **4500.** | **4810.** | **550.** | **4920.** | **4950.** | **5320.** |
| Stddev | 2. | 8. | 50. | 20. | 61. | 5. | 55. | 34. | 3. | 47. | 7. | 21. |
| %RSD | .396 | 2.49 | 1.05 | .369 | 1.22 | .927 | 1.22 | .701 | .476 | .965 | .148 | .390 |
| Check ? | None | None | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2599 | Mg2025 | Mn2576 | Mn2593 | Mo2045 | Ni2216 | Ni2316 | Pb2169 | Sb2068 | Se2039 | Tl1908 | V_2908 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **5030.** | **5190.** | **5120.** | **5030.** | **5320.** | **4930.** | **5060.** | **5420.** | **5260.** | **5370.** | **4900.** | **5030.** |
| Stddev | 35. | 30. | 49. | 18. | 15. | 14. | 13. | 32. | 26. | 23. | 17. | 37. |
| %RSD | .694 | .582 | .959 | .360 | .285 | .279 | .256 | .594 | .491 | .435 | .342 | .726 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | B_2497 | K_7664 |
|---|---|---|---|---|
| Avg | **5070.** | **4540.** | **4800.** | **50800.** |
| Stddev | 46. | 10. | 39. | 607. |
| %RSD | .911 | .230 | .818 | 1.20 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | |
| Range | | | | |

Sample Name: ccv1 Acquired: 11/21/2019 08:45:24 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **181840.** | **1274500.** | **377130.** |
| Stddev | 636. | 10359. | 2187. |
| %RSD | .34965 | .81279 | .57991 |

Sample Name: ccv2 Acquired: 11/21/2019 08:51:40 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Al1670 | As1937 | As1972 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2055 | Cr2677 | Cu3273 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **50.9** | **544.** | **488.** | **543.** | **550.** | **52.9** | **497.** | **49.7** | **505.** | **513.** | **538.** | **489.** |
| Stddev | .8 | 3. | 4. | 5. | . | .3 | 1. | .2 | 2. | 1. | 2. | 3. |
| %RSD | 1.63 | .625 | .829 | .882 | .081 | .659 | .210 | .360 | .349 | .240 | .447 | .603 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Fe2343 | Mg2802 | Mn2576 | Mn2593 | Mo2045 | Ni2216 | Ni2316 | Pb2203 | Sb2068 | Sb2175 | Se1960 | Tl1908 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **481.** | **533.** | **532.** | **524.** | **547.** | **518.** | **534.** | **551.** | **536.** | **537.** | **527.** | **536.** |
| Stddev | 6. | 4. | 4. | 2. | . | 1. | 2. | 2. | 3. | 2. | 4. | 3. |
| %RSD | 1.29 | .691 | .664 | .463 | .033 | .269 | .432 | .328 | .548 | .447 | .688 | .543 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | V_2924 | Zn2062 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|
| Avg | **522.** | **467.** | **519.** | **489.** | **5430.** |
| Stddev | 3. | 3. | 2. | 3. | 29. |
| %RSD | .561 | .603 | .325 | .570 | .527 |
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value | | | | | |
| Range | | | | | |

Sample Name: ccv2 Acquired: 11/21/2019 08:51:40 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **186600.** | **1320400.** | **377850.** |
| Stddev | 240. | 2621. | 872. |
| %RSD | .12837 | .19852 | .23074 |

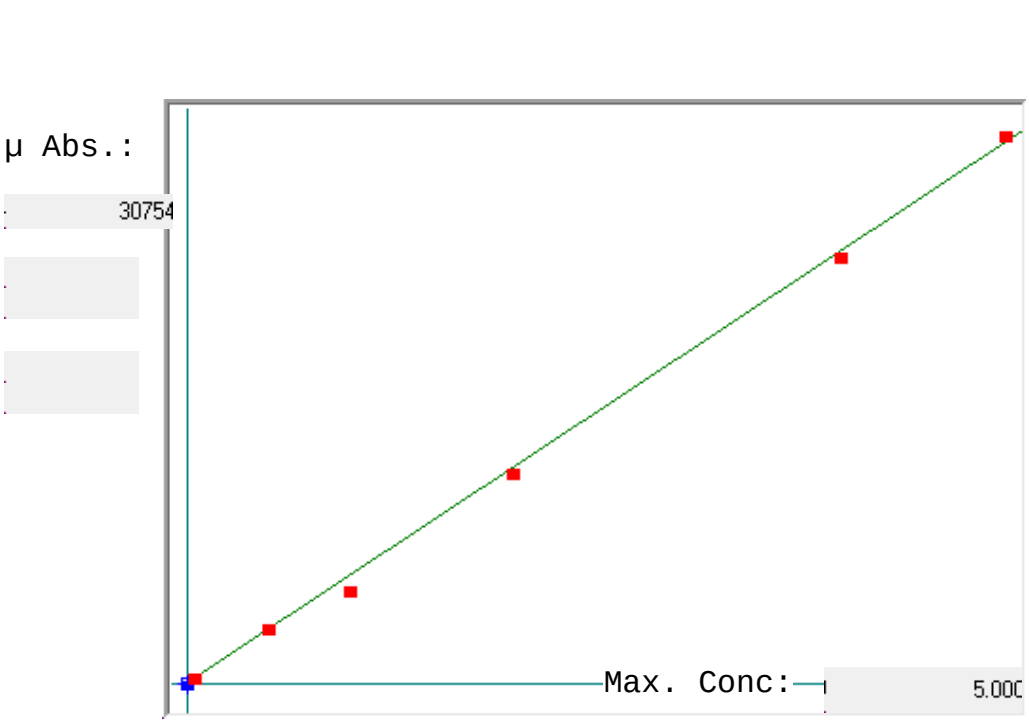
Sample Name: ccb Acquired: 11/21/2019 08:57:27 Type: QC
Method: DOD Calibration Updated 060614(v3620) Mode: CONC Corr. Factor: 1.000000
User: NAH ICAP6500: PrepBatch: Post Digestion dilution: 1
Comment:

| Elem | Ag3280 | Ag3382 | Al1670 | As1937 | Ba2335 | Be3130 | Ca3968 | Cd2265 | Co2286 | Cr2677 | Cu2230 | Fe2343 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **-1.19** | **5.04** | **2.53** | **2.24** | **.321** | **.127** | **4.54** | **.057** | **1.53** | **.736** | **1.94** | **.483** |
| Stddev | .47 | 3.54 | .15 | 1.82 | .148 | .030 | .08 | .167 | .21 | .889 | .92 | 1.32 |
| %RSD | 39.0 | 70.2 | 6.06 | 81.0 | 46.1 | 23.5 | 1.79 | 290. | 13.7 | 121. | 47.2 | 274. |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Elem | Mg2802 | Mn2576 | Mo2020 | Ni2316 | Pb2203 | Sb2175 | Se1960 | Tl1908 | V_2924 | Zn2138 | B_2497 | K_7664 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avg | **1.73** | **1.70** | **1.99** | **2.24** | **.850** | **3.98** | **-.651** | **4.28** | **1.70** | **2.07** | **4.38** | **51.7** |
| Stddev | .02 | .06 | .50 | .19 | 1.34 | 1.91 | 2.88 | 1.94 | .31 | .13 | .09 | 29.0 |
| %RSD | 1.30 | 3.59 | 25.1 | 8.27 | 158. | 48.0 | 443. | 45.3 | 18.3 | 6.11 | 1.96 | 56.0 |
| Check ? | None | None | None | None | None | None | None | None | None | None | None | None |
| Value | | | | | | | | | | | | |
| Range | | | | | | | | | | | | |

| Int. Std. | Y_2243 | Y_3242 | Y_3710 |
|---|---|---|---|
| Avg | **198530.** | **1393400.** | **398200.** |
| Stddev | 556. | 5411. | 3870. |
| %RSD | .28022 | .38835 | .97194 |

Hg Waters




| Std ID | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Calibration Blank | 0.000 | -0.001 | -0.001 | 31 | 3.808 | 36 | 29 | 26 | 33 | |
| 0.05 | 0.050 | 0.057 | 0.007 | 384 | 2.8 % | 368 | 381 | 390 | 397 | |
| 0.5 | 0.500 | 0.515 | 0.015 | 3164 | 2.4 % | 3058 | 3135 | 3205 | 3259 | |
| 1.0 | 1.000 | 0.870 | -0.130 | 5316 | 3.6 % | 5058 | 5221 | 5418 | 5567 | |
| 2.0 | 2.000 | 1.956 | -0.044 | 11907 | 3.2 % | 11395 | 11736 | 12094 | 12405 | |
| 4.0 | 4.000 | 3.940 | -0.060 | 23952 | 2.6 % | 23154 | 23662 | 24167 | 24825 | |
| 5.0 | 5.000 | 5.061 | 0.061 | 30754 | 3.3 % | 29491 | 30233 | 31126 | 32166 | |

# 112319w

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

| Sample ID | Date | Element | Units | Extended ID | LT Mean Conc |
|---|---|---|---|---|---|
| Calibration Blank | | Hg | | | 31.000 |
| 0.05 | | Hg | | | 384.000 |
| 0.5 | | Hg | | | 3164.250 |
| 1.0 | | Hg | | | 5316.000 |
| 2.0 | | Hg | | | 11907.500 |
| 4.0 | | Hg | | | 23952.000 |
| 5.0 | | Hg | | | 30754.000 |
| ICV | | Hg | | | 3.000 |
| ICB | | Hg | | | -0.018 |
| 357872 | | Hg | | | 0.052 |
| 358081 | | Hg | | | 0.351 |
| 358085 | | Hg | | | -0.048 |
| 358087 | | Hg | | | 0.005 |
| 358089 | | Hg | | | 0.001 |
| 358091 | | Hg | | | 0.002 |
| 358093 | | Hg | | | -0.003 |
| 358453 | | Hg | | | -0.003 |
| 358456 | | Hg | | | 0.001 |
| CCV | | Hg | | | 2.793 |
| CCB | | Hg | | | -0.017 |
| 358466 | | Hg | | | -0.001 |
| 358473 | | Hg | | | 0.005 |
| 358478 | | Hg | | | -0.001 |
| 358480 | | Hg | | | 0.165 |
| 358482 | | Hg | | | -0.028 |
| 358872dup 358482 | | Hg | | | -0.001 |
| 358873msw 358482 | | Hg | | | 1.756 |
| 358874msdw 358482 | | Hg | | | 1.874 |
| 358849lcsw 74541 | | Hg | | | 1.768 |
| CCV | | Hg | | | 2.764 |
| CCB | | Hg | | | -0.013 |
| 358848 mbw 74541 | | Hg | | | -0.010 |
| 357029 | | Hg | | | 0.259 |
| 357030 | | Hg | | | -0.041 |
| 357031 | | Hg | | | 0.000 |
| 357032 | | Hg | | | -0.001 |
| 357033 | | Hg | | | -0.003 |
| 357034 | | Hg | | | 0.063 |
| 357035 | | Hg | | | -0.014 |
| 357036 | | Hg | | | 0.000 |
| 357037 | | Hg | | | 0.068 |
| CCV | | Hg | | | 2.745 |
| CCB | | Hg | | | -0.009 |
| 357038 | | Hg | | | 0.001 |
| 357041 | | Hg | | | -0.007 |
| 358011 | | Hg | | | 0.001 |
| 358012 | | Hg | | | -0.002 |
| 358013 | | Hg | | | -0.001 |
| 358014 | | Hg | | | 0.004 |
| 358015 | | Hg | | | 0.001 |
| 358016 | | Hg | | | 0.001 |
| 358019 | | Hg | | | -0.001 |
| 358022 | | Hg | | | 0.041 |
| CCV | | Hg | | | 2.813 |
| CCB | | Hg | | | -0.013 |
| 358845dup 357032 | | Hg | | | -0.002 |
| 358846msw 357032 | | Hg | | | 1.838 |
| 358847msdw 357032 | | Hg | | | 1.775 |
| 358852lcsw 74542 | | Hg | | | 1.728 |
| 358851mbw 74542 | | Hg | | | -0.018 |
| 357861 | | Hg | | | 0.009 |
| 357873 | | Hg | | | 0.035 |
| 358082 | | Hg | | | 0.055 |
| CCV | | Hg | | | 2.792 |
| CCB | | Hg | | | -0.015 |

# 112319w

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

| Sample ID | Date | Element | Units | Extended ID | LT Mean Conc |
|---|---|---|---|---|---|
| 358086 | | Hg | | | -0.004 |
| 358088 | | Hg | | | 0.022 |
| 358086 | | Hg | | | 0.001 |
| 358088 | | Hg | | | 0.014 |
| 358090 | | Hg | | | -0.001 |
| 358092 | | Hg | | | 0.004 |
| 358094 | | Hg | | | -0.006 |
| 358454 | | Hg | | | -0.005 |
| 358461 | | Hg | | | -0.004 |
| 358471 | | Hg | | | 0.001 |
| 358477 | | Hg | | | -0.001 |
| 358479 | | Hg | | | 0.001 |
| CCV | | Hg | | | 3.044 |
| CCB | | Hg | | | -0.007 |
| 358481 | | Hg | | | 0.100 |
| 358483 | | Hg | | | -0.017 |
| 359008dup 358483 | | Hg | | | -0.004 |
| 359009msw 358483 | | Hg | | | 1.890 |
| 359010msdw 358483 | | Hg | | | 1.971 |
| lcsw | | Hg | | | 1.890 |
| mbw | | Hg | | | -0.010 |
| CCV | | Hg | | | 2.926 |
| CCB | | Hg | | | -0.004 |
| 356218 | | Hg | | | -0.002 |
| 358102 | | Hg | | | -0.001 |
| 358104 | | Hg | | | 0.041 |
| 359029msw 356218 | | Hg | | | 1.761 |
| 359030msdw 356218 | | Hg | | | 1.616 |
| 358863msw 358102 | | Hg | | | 1.800 |
| 358864msdw 358102 | | Hg | | | 1.676 |
| 358855msw 358104 | | Hg | | | 1.856 |
| 358856msdw 358104 | | Hg | | | 1.917 |
| CCV | | Hg | | | 2.982 |
| CCB | | Hg | | | -0.013 |
| 359028dup 356218 | | Hg | | | -0.008 |
| 357482 | | Hg | | | 0.006 |
| 358859msw 357482 | | Hg | | | 1.927 |
| 358860msdw 357482 | | Hg | | | 1.926 |
| 357483 | | Hg | | | -0.273 |
| 357484 | | Hg | | | -0.003 |
| 359905 | | Hg | | | -0.000 |
| 359906 | | Hg | | | -0.007 |
| CCV | | Hg | | | 2.893 |
| CCB | | Hg | | | -0.013 |
| 359907 | | Hg | | 5 | 0.004 |
| 359908 | | Hg | | | 0.002 |
| 359913 | | Hg | | | 0.005 |
| 359914 | | Hg | | | 0.016 |
| 359915 | | Hg | | | -0.004 |
| 359918 | | Hg | | | 0.007 |
| 360090 | | Hg | | | -0.002 |
| 360227msw 359906 | | Hg | | | 1.575 |
| 360228msdw 359906 | | Hg | | | 1.620 |
| CCV | | Hg | | | 2.866 |
| CCB | | Hg | | | -0.013 |

# 112219bw

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

| Sample ID | Date | Element | Units | Extended ID | LT Mean Conc |
|---|---|---|---|---|---|
| Calibration Blank | 22 Nov 2019 12:49:49 | Hg | | | |
| 0.05 | 22 Nov 2019 12:51:49 | Hg | | | |
| 0.5 | 22 Nov 2019 12:53:50 | Hg | | | |
| 1.0 | 22 Nov 2019 12:55:51 | Hg | | | |
| 2.0 | 22 Nov 2019 12:57:52 | Hg | | | |
| 4.0 | 22 Nov 2019 12:59:54 | Hg | | | |
| 5.0 | 22 Nov 2019 13:01:56 | Hg | | | |
| ICV | 22 Nov 2019 13:04:09 | Hg | | | |
| ICB | 22 Nov 2019 13:08:35 | Hg | | | |
| 357872 | 22 Nov 2019 13:10:34 | Hg | | | |
| 358081 | 22 Nov 2019 13:12:34 | Hg | | | |
| 358085 | 22 Nov 2019 13:14:34 | Hg | | | |
| 358087 | 22 Nov 2019 13:16:34 | Hg | | | |
| 358089 | 22 Nov 2019 13:18:34 | Hg | | | |
| 358091 | 22 Nov 2019 13:20:35 | Hg | | | |
| 358093 | 22 Nov 2019 13:22:36 | Hg | | | |
| 358453 | 22 Nov 2019 13:24:36 | Hg | | | |
| 358456 | 22 Nov 2019 13:26:36 | Hg | | | |
| CCV | 22 Nov 2019 13:32:36 | Hg | | | |
| CCB | 22 Nov 2019 13:36:45 | Hg | | | |
| 358466 | 22 Nov 2019 13:38:45 | Hg | | | |
| 358473 | 22 Nov 2019 13:40:45 | Hg | | | |
| 358478 | 22 Nov 2019 13:42:44 | Hg | | | |
| 358480 | 22 Nov 2019 13:44:44 | Hg | | | |
| 358482 | 22 Nov 2019 13:46:44 | Hg | | | |
| 358872dup 358482 | 22 Nov 2019 13:48:44 | Hg | | | |
| 358873msw 358482 | 22 Nov 2019 13:52:46 | Hg | | | |
| 358874msdw 358482 | 22 Nov 2019 13:54:49 | Hg | | | |
| 358849lcsw 74541 | 22 Nov 2019 13:56:51 | Hg | | | |
| CCV | 22 Nov 2019 14:00:55 | Hg | | | |
| CCB | 22 Nov 2019 14:05:00 | Hg | | | |
| 358848 mbw 74541 | 22 Nov 2019 14:07:00 | Hg | | | |
| 357029 | 22 Nov 2019 14:08:59 | Hg | | | |
| 357030 | 22 Nov 2019 14:10:59 | Hg | | | |
| 357031 | 22 Nov 2019 14:12:59 | Hg | | | |
| 357032 | 22 Nov 2019 14:14:59 | Hg | | | |
| 357033 | 22 Nov 2019 14:16:58 | Hg | | | |
| 357034 | 22 Nov 2019 14:18:59 | Hg | | | |
| 357035 | 22 Nov 2019 14:20:59 | Hg | | | |
| 357036 | 22 Nov 2019 14:22:59 | Hg | | | |
| 357037 | 22 Nov 2019 14:25:00 | Hg | | | |
| CCV | 22 Nov 2019 14:28:59 | Hg | | | |
| CCB | 22 Nov 2019 14:33:06 | Hg | | | |
| 357038 | 22 Nov 2019 14:35:06 | Hg | | | |
| 357041 | 22 Nov 2019 14:37:05 | Hg | | | |
| 358011 | 22 Nov 2019 14:39:06 | Hg | | | |
| 358012 | 22 Nov 2019 14:41:05 | Hg | | | |
| 358013 | 22 Nov 2019 14:43:05 | Hg | | | |
| 358014 | 22 Nov 2019 14:45:04 | Hg | | | |
| 358015 | 22 Nov 2019 14:47:04 | Hg | | | |
| 358016 | 22 Nov 2019 14:49:04 | Hg | | | |
| 358019 | 22 Nov 2019 14:51:04 | Hg | | | |
| 358022 | 22 Nov 2019 14:53:03 | Hg | | | |
| CCV | 22 Nov 2019 14:57:03 | Hg | | | |
| CCB | 22 Nov 2019 15:01:09 | Hg | | | |
| 358845dup 357032 | 22 Nov 2019 15:03:09 | Hg | | | |
| 358846msw 357032 | 22 Nov 2019 15:07:12 | Hg | | | |
| 358847msdw 357032 | 22 Nov 2019 15:09:14 | Hg | | | |
| 358852lcsw 74542 | 22 Nov 2019 15:11:17 | Hg | | | |
| 358851mbw 74542 | 22 Nov 2019 15:15:23 | Hg | | | |
| 357861 | 22 Nov 2019 15:17:23 | Hg | | | |
| 357873 | 22 Nov 2019 15:19:23 | Hg | | | |
| 358082 | 22 Nov 2019 15:21:23 | Hg | | | |
| CCV | 22 Nov 2019 15:25:21 | Hg | | | |
| CCB | 22 Nov 2019 15:29:29 | Hg | | | |

# 112219bw

Method: Hg Waters Operator: Admin Date of Analysis: 22 Nov 2019 12:31:31

| Sample ID | Date | Element | Units | Extended ID | LT Mean Conc |
|---|---|---|---|---|---|
| 358086 | 22 Nov 2019 15:31:28 | Hg | | | |
| 358088 | 22 Nov 2019 15:33:28 | Hg | | | |
| 358086 | 22 Nov 2019 15:46:52 | Hg | | | |
| 358088 | 22 Nov 2019 15:48:53 | Hg | | | |
| 358090 | 22 Nov 2019 15:50:54 | Hg | | | |
| 358092 | 22 Nov 2019 15:52:54 | Hg | | | |
| 358094 | 22 Nov 2019 15:54:55 | Hg | | | |
| 358454 | 22 Nov 2019 15:56:55 | Hg | | | |
| 358461 | 22 Nov 2019 15:58:55 | Hg | | | |
| 358471 | 22 Nov 2019 16:00:56 | Hg | | | |
| 358477 | 22 Nov 2019 16:02:56 | Hg | | | |
| 358479 | 22 Nov 2019 16:04:56 | Hg | | | |
| CCV | 22 Nov 2019 16:08:55 | Hg | | | |
| CCB | 22 Nov 2019 16:13:00 | Hg | | | |
| 358481 | 22 Nov 2019 16:15:00 | Hg | | | |
| 358483 | 22 Nov 2019 16:17:00 | Hg | | | |
| 359008dup 358483 | 22 Nov 2019 16:19:00 | Hg | | | |
| 359009msw 358483 | 22 Nov 2019 16:23:01 | Hg | | | |
| 359010msdw 358483 | 22 Nov 2019 16:25:05 | Hg | | | |
| lcsw | 22 Nov 2019 16:29:10 | Hg | | | |
| mbw | 22 Nov 2019 16:33:13 | Hg | | | |
| CCV | 22 Nov 2019 16:37:11 | Hg | | | |
| CCB | 22 Nov 2019 16:41:16 | Hg | | | |
| 356218 | 22 Nov 2019 16:43:16 | Hg | | | |
| 358102 | 22 Nov 2019 16:45:14 | Hg | | | |
| 358104 | 22 Nov 2019 16:47:14 | Hg | | | |
| 359029msw 356218 | 22 Nov 2019 16:51:14 | Hg | | | |
| 359030msdw 356218 | 22 Nov 2019 16:53:17 | Hg | | | |
| 358863msw 358102 | 22 Nov 2019 16:55:20 | Hg | | | |
| 358864msdw 358102 | 22 Nov 2019 16:57:23 | Hg | | | |
| 358855msw 358104 | 22 Nov 2019 16:59:27 | Hg | | | |
| 358856msdw 358104 | 22 Nov 2019 17:01:29 | Hg | | | |
| CCV | 22 Nov 2019 17:05:32 | Hg | | | |
| CCB | 22 Nov 2019 17:09:39 | Hg | | | |
| 359028dup 356218 | 22 Nov 2019 17:13:39 | Hg | | | |
| 357482 | 22 Nov 2019 17:15:38 | Hg | | | |
| 358859msw 357482 | 22 Nov 2019 17:19:37 | Hg | | | |
| 358860msdw 357482 | 22 Nov 2019 17:21:39 | Hg | | | |
| 357483 | 22 Nov 2019 17:23:42 | Hg | | | |
| 357484 | 22 Nov 2019 17:25:44 | Hg | | | |
| 359905 | 22 Nov 2019 17:27:45 | Hg | | | |
| 359906 | 22 Nov 2019 17:29:45 | Hg | | | |
| CCV | 22 Nov 2019 17:33:45 | Hg | | | |
| CCB | 22 Nov 2019 17:37:49 | Hg | | | |
| 359907 | 22 Nov 2019 17:39:49 | Hg | | 5 | |
| 359908 | 22 Nov 2019 17:41:49 | Hg | | | |
| 359913 | 22 Nov 2019 17:43:49 | Hg | | | |
| 359914 | 22 Nov 2019 17:45:48 | Hg | | | |
| 359915 | 22 Nov 2019 17:47:47 | Hg | | | |
| 359918 | 22 Nov 2019 17:49:46 | Hg | | | |
| 360090 | 22 Nov 2019 17:51:45 | Hg | | | |
| 360227msw 359906 | 22 Nov 2019 17:55:45 | Hg | | | |
| 360228msdw 359906 | 22 Nov 2019 17:57:48 | Hg | | | |
| CCV | 22 Nov 2019 18:01:52 | Hg | | | |
| CCB | 22 Nov 2019 18:05:58 | Hg | | | |

# METALS
# LOGBOOK
# DOCUMENTS

# MICP QSM TCLP/HARDNESS Analytical Run
# 166766 on 12/03/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 363217 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | ICV | | | | | 0 | | | |
| | 363218 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | ICVLL | | | | | 0 | | | |
| | 363219 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | ICB | | | | | 0 | | | |
| | 363220 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | ICSA | | | | | 0 | | | |
| | 363221 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | ICSAB | | | | | 0 | | | |
| | 363222 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | ICVLL | | | | | 0 | | | |
| | 363223 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | CCV1 | | | | | 0 | | | |
| | 363224 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | CCV2 | | | | | 0 | | | |
| | 363225 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | CCB | | | | | 0 | | | |
| | 359032 | | | | | | | | ICP QSM TCLP 5.0 | | | | |
| | | | | | LCSW | | | | | 74587 | | | |
| | 363226 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | CCV1 | | | | | 0 | | | |
| | 363227 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | CCV2 | | | | | 0 | | | |
| | 363228 | | | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | | CCB | | | | | 0 | | | |
| | 359031 | | | | | | | | ICP QSM TCLP 5.0 | | | | |
| | | | | | MBW | | | | | 74587 | | | |
| 149511 | 356218 | | 11/07/2019 | 1030 | | | HDR, INC | LONGHORN | ICP QSM TCLP 5.0 | | M | | **4** |
| | | 46ADPT-TCLP | | | | | | | | 74587 | | | |
| | 363229 | | | | | | | | ICP QSM TCLP 5.0 | | | | |
| | | | | | L | 356218 | | | | 0 | | | |
| | 359033 | | 11/07/2019 | 1030 | | | | | ICP QSM TCLP 5.0 | | | | |
| | | 46ADPT-TCLP | | | DUP | 356218 | | | | 74587 | | | |
| | 359034 | | 11/07/2019 | 1030 | | | | | ICP QSM TCLP 5.0 | | | | |
| | | 46ADPT-TCLP | | | MSW | 356218 | | | | 74587 | | | |
| | 359035 | | 11/07/2019 | 1030 | | | | | ICP QSM TCLP 5.0 | | | | |
| | | 46ADPT-TCLP | | | MSDW | 359034 | | | | 74587 | | | |

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**



Distribution: C:\LIMSREPS\ANALYTICALRUN.RPT Page 1 of 1

E-2532

# MICP QSM TCLP/HARDNESS Analytical Run
# 166766 on 12/03/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 363230 | | | | | | ICP QSM TCLP 5.0 | | | | |
| | | | | PDSW 356218 | | | | 0 | | | |
| | 363231 | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | CCV1 | | | | 0 | | | |
| | 363232 | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | CCV2 | | | | 0 | | | |
| | 363233 | | | | | | MICP QSM TCLP/HARDNESS | | | | |
| | | | | CCB | | | | 0 | | | |

**23** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# MERCURY QSM TCLP 5.0 Analytical Run
# 166905 on 12/03/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 363339 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | ICV | | | | | 0 | | | |
| | 363340 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | ICB | | | | | 0 | | | |
| | 363341 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCV | | | | | 0 | | | |
| | 363342 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCB | | | | | 0 | | | |
| | 359027 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | LCSW | | | | | 74586 | | | |
| | 359026 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | MBW | | | | | 74586 | | | |
| | 363343 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCV | | | | | 0 | | | |
| | 363344 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCB | | | | | 0 | | | |
| 149511 | 356218 | | 11/07/2019 | 1030 | | | HDR, INC | LONGHORN | MERCURY QSM TCLP 5.0 | | M | **4** | |
| | | 46ADPT-TCLP | | | | | | | | 74586 | | | |
| | 359029 | | 11/07/2019 | 1030 | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | 46ADPT-TCLP | | | MSW | 356218 | | | | 74586 | | | |
| | 359030 | | 11/07/2019 | 1030 | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | 46ADPT-TCLP | | | MSDW | 359029 | | | | 74586 | | | |
| | 363345 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCV | | | | | 0 | | | |
| | 363346 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCB | | | | | 0 | | | |
| | 359028 | | 11/07/2019 | 1030 | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | 46ADPT-TCLP | | | DUP | 356218 | | | | 74586 | | | |
| | 363347 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCV | | | | | 0 | | | |
| | 363348 | | | | | | | | MERCURY QSM TCLP 5.0 | | | | |
| | | | | | CCB | | | | | 0 | | | |

**16** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# TCLP/SPLP/ASTM Extraction Summary

**Batch:** 3022 **Date:** 11-15-19 **Analyst (set up):** Bmm **Analyst (take down):** Bmm

| Sample # | Parameter | Test | | | Vessel / ZHE | Buffer Determination | | | Sample wt. | ***Free Liquids Present (Y/N) | Vol. Ext. Fluid | Initial pH | ZHE Initial Press | Time In | Date / Time Out | Ext. Time | End pH | ZHE End Press | Date / Time Filtered | Volume Filtered |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (M / SV / V / WC) | TCLP | SPLP | ASTM | # | Initial pH | * End pH | **Ext. Fluid | (g) | | (mL) | | (psi) | | | (hrs) | | (psi) | | (mL) |
| Blank | M/SV | x | | | 11G | - | - | 1 | - | N | 2000 | 4.93 | - | 1710 | 11-16-19 0910 | 16 | 4.84 | - | 11-18-19 / 1316 | 1250 |
| 356218 | M/SV | x | | | T1 | 7.58 | 1.31 | 1 | 100 | N | 2000 | 4.96 | - | 1710 | 11-16-19 0910 | 16 | 4.83 | - | 11-18-19 / 1320 | 1300 |
| 356503 | M | x | | | 8P | 7.43 | 2.93 | 1 | 25 | N | 500 | 4.89 | - | 1710 | 11-16-19 / 0910 | 16 | 5.91 | - | 11-18-19 / 1338 | 500 |
| 356519 | M/SV | x | | | 9P | 7.87 | 1.87 | 1 | 50 | N | 1000 | 4.94 | - | 1710 | 11-16-19 / 0910 | 16 | 5.87 | - | 11-18-19 / 1340 | 980 |
| 356535 | M | x | | | 18P | 8.03 | 2.40 | 1 | 25 | N | 500 | 4.96 | - | 1710 | 11-16-19 / 0910 | 16 | 5.93 | - | 11-18-19 / 1346 | 500 |
| 356537 | M | x | | | 19P | 8.13 | 1.54 | 1 | 25 | N | 500 | 4.94 | - | 1710 | 11-16-19 / 0910 | 16 | 5.40 | - | 11-18-19 / 1350 | 500 |
| 356539 | M | x | | | 22P | 7.99 | 1.83 | 1 | 25 | N | 500 | 4.90 | - | 1710 | 11-16-19 / 0910 | 16 | 5.16 | - | 11-18-19 / 1353 | 500 |
| 356541 | M/SV | x | | | 25P | 8.16 | 1.97 | 1 | 50 | N | 1000 | 4.90 | - | 1710 | 11-16-19 / 0910 | 16 | 5.45 | - | 11-18-19 / 1356 | 980 |
| 356626 | M/SV | x | | | TH | 8.05 | 1.39 | 1 | 100 | N | 2000 | 4.87 | - | 1710 | 11-16-19 / 0910 | 16 | 4.85 | - | 11-18-19 / 1403 | 1400 |
| 357316 | M | x | | | 26P | 7.68 | 1.46 | 1 | 25 Bmm 11-18-19 | N | 500 | 4.86 | - | 1710 | 11-16-19 / 0910 | 16 | 4.87 | - | 11-18-19 / 1410 | 500 |

**Extraction Fluid Used: TCLP #1 **Ext. Fluid ID #:** M14044 **Ext. Fluid pH(+/-0.05(°C):** 4.93 **Date measured:** 11-15-19 **Ext. Start Temp (°C):** 21.0

**Ext. End Temp(°C):** 21.2 **(min:** 20.9 **/ max:** 21.5**)** *(Acceptable Range 21-25°C)* **Filter Manufacturer:** Env. Express **Filter Lot #:** 408161-9217-D

**Balance:** VOB01 **pH Meter:** Corning 450 **1N HCL:** M13818 * **Tumbler Unit #(s):** 1

**Acceptable rotation rate:** 30 ±2 rpm **Verified Rotation rate:** 31 rpm *End pH = pH of representative sample (if initially >5.0) after adding 1N HCl and heating @ 50°C (covered) for 10 minutes and then cooled to room temperature.

*M=Metals, SV=Semi Volatiles, V=Volatiles, WC=Wet Chemistry*

## % Solids Calculation Worksheet

*Tare weights (g)* *Transfer weights (g)* *Separation weights (g)* *% Solids Calculations*

| Sample # | A Filter wt. | B Filtrate Vessel wt. | C Transfer Vessel wt. | D Sample + Transfer Vessel | E Sample wt {D - C} | F Vessel wt. Post Transfer | G Residue wt. {F – C} | H Total Waste Amount {E – G} | I Filtrate Vessel + Filtrate | J Liquid Phase of Sample {I – B} | K Solid Phase of Sample {H – J} | L. % Solids (**) (K/H*100) | M Waste + Filter (Dry) wt. (g) | % Solids (Dry) ({M – A}/H)*100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

*(***) If Solids = <0.5%, treat filtrate as TCLP extract, if free liquid present use % Solids Calculation Worksheet*

**Reviewed By/Date:** _____

* 356503 used 2 filters. 11-18-19 Bmm

# PREP WORKSHEET
## on 12/03/2019

Prep Batch **74,587** Date Prepped: 11/19/2019 Prepped By NAH

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 359031 | MBW | | ICP QSM TCLP 5.0 | LIQUID | 50 | | 50.0 | | |
| | 359032 | LCSW | | ICP QSM TCLP 5.0 | LIQUID | 50 | | 50.0 | | |
| 149511 | 356218 | | | ICP QSM TCLP 5.0 | TCLP | 50 | | 50.0 | 4 | |
| | 359033 | DUP | 356218 | ICP QSM TCLP 5.0 | TCLP | 50 | | 50.0 | | |
| | 359034 | MSW | 356218 | ICP QSM TCLP 5.0 | TCLP | 50 | | 50.0 | | |
| | 359035 | MSDW | 359034 | ICP QSM TCLP 5.0 | TCLP | 50 | | 50.0 | | |

Notes:_____

# PREP WORKSHEET
## on 12/03/2019

Prep Batch **74,586** Date Prepped: 11/21/2019 Prepped By BMM

| Folder # | Order | QC Type | Link | Test | Matrix | Volume | Weight | Initial Volume | SDG Level | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 359026 | MBW | | MERCURY QSM TCLP | LIQUID | 25 | | 25.0 | | |
| | 359027 | LCSW | | MERCURY QSM TCLP | LIQUID | 25 | | 25.0 | | |
| 149511 | 356218 | | | MERCURY QSM TCLP | TCLP | 25 | | 25.0 | 4 | |
| | 359028 | DUP | 356218 | MERCURY QSM TCLP | TCLP | 25 | | 25.0 | | |
| | 359029 | MSW | 356218 | MERCURY QSM TCLP | TCLP | 25 | | 25.0 | | |
| | 359030 | MSDW | 359029 | MERCURY QSM TCLP | TCLP | 25 | | 25.0 | | |

Notes:_____

# Metals Digestion Bench Sheet

Program: QSM
*Matrix: liquid

Prep Methods:
200.2= ICP/GFAA Liquids
3010= ICP Liquids
3020= GFAA Liquids
3005= Sb Liquids
3050= ICP/GFAA Solids
7060/7740= GFAA, As & Se Liquids

| | |
|---|---|
| **Prep Batch #:** | 74587 |
| **Prep Method:** | 200.2 |
| **Analyst:** | NAH |
| **Date:** | 11/18/2019 |
| **Start Time:** | 14:44 |

Prep Analyst: BMM
Balance ID:
End Date: 11/18/2019
End Time: 23:23
Digestion Tube Lot #: 3334
Block Used: D2
Cell Position for Temp. Check: 60
Initial-DigestionTemp (ºC): 93
Final-Digestion Temp (ºC): 94

| Reagent: | Ref. # |
|---|---|
| Nitric Acid: | AB.681 |
| Hydrochloric Acid: | AB.682 |
| Hydrogen Peroxide: | AB.678 |

| Sample ID | | | (Solids) Sample Weight (g) | (Liquids) Sample Volume (ml) | Final Volume (ml) |
|---|---|---|---|---|---|
| 359031 | (MB) | | | 50.0 | 50 |
| 359032 | (LCS) | | | 50.0 | 50 |
| 356218 | | | | 50.0 | 50 |
| | **Comments:** | | | | 50 |
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| | | | | | 50 |
| 359033 | (DUP) | | | 50.0 | 50 |
| 359034 | (MS) | Parent Sample | | 50.0 | 50 |
| 359035 | (MSD) | 356218 | | 50.0 | 50 |
| | (DUP) | | | | 50 |
| | (MS) | Parent Sample | | | 50 |
| | (MSD) | | | | 50 |
| Leave >> | (DUP) if applicable | | | | 50 |
| blank | (MS) | Parent Sample | | | 50 |
| if N/A | (MSD) | | | | 50 |

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

| MS/MSD Spike Amount (ml) | Spike Ref. # |
|---|---|
| 0.2 | M13903 |
| 0.5 | m13811 |
| 0.5 | m13961 |
| | |
| | |
| | |

| LCS Spike Amount (ml) | Spike Ref. # |
|---|---|
| 0.2 | M13903 |
| 0.5 | m13811 |
| 0.5 | m13961 |
| | |
| | |
| | |

Reviewed By/Date:

12/03/201915:20

**FMT12-03**

# Mercury Digestion Bench Sheet

(Prep Methods 7470A & 7471A)

CCV ID: M14048
ICV/LCSW ID: M14049

*Matrix: TCLP

Balance ID:

| | |
|---|---|
| **Prep Batch #:** | 74586 |
| **Prep Method:** | 7470A |
| **Analyst:** | BMM |
| **Date:** | 11/21/2019 |
| **Start Time:** | 10:02 |

7470A= Hg Liquids
7471A= Hg Solids

End Date: 11/21/2019
End Time: 12:02

Digestion Tube Lot #: 4919103
Block Used: A
Cell Position for Temp. Check: F6
Initial-DigestionTemp (ºC): 92.4
Final-Digestion Temp (ºC): 92.6
Additional KMnO4 added (ml):
Aqua Regia added (ml)
Calibration Stds: M14047

| Reagent: | Ref. # |
|---|---|
| HNO3: | AB.677 |
| H2SO4: | AB.674 |
| NaCl/Hydrox.SO4: | M13875 |
| KMnO4: | M13873 |
| K2S2O8: | M14020 |
| Aqua-Regia: | |

| | Sample | | | (Solids) Sample Weight (g) | (Liquids) Sample Volume (ml) | Final Volume (ml) |
|---|---|---|---|---|---|---|
| | 359026 | (MB) | | | 25.0 | 25 |
| | 359027 | (LCS) | | | 25.0 | 25 |
| | 356218 | | | | 25.0 | 25 |
| | | **Comments:** | | | | 25 |
| | | | | | | 25 |
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| | | | | | | 25 |
| | | | | | | 25 |
| | 359028 | (DUP) | | | 25.0 | 25 |
| | 359029 | (MS) | Parent Sample | | 25.0 | 25 |
| | 359030 | (MSD) | 356218 | | 25.0 | 25 |
| Leave >> | | (DUP) | | | | 25 |
| blank | | (MS) | Parent Sample | | | 25 |
| | | (MSD) | | | | 25 |
| | | (DUP) | | | | 25 |
| | | (MS) | Parent Sample | | | 25 |
| if N/A | | (MSD) | | | | 25 |

MB=Method Blank, LCS=Laboratory Control Sample, DUP=Duplicate, MS=Matrix Spike & MSD=Matrix Spike Duplicate
*Matrix: Soil, Sludge, Waste, GW=Groundwater, WW=Wastewater, Tissue, TLCP, SPLP, ASTM or other.

| A: Spike Amount (ml) | Spike Conc. (ug/L) | Spike Ref. # |
|---|---|---|
| 0.5 | 100ug/L | M14049 |
| | | |

| B: Spike Amount (ml) | Spike Conc. (ug/L) | Spike Ref. # |
|---|---|---|
| | | |
| | | |

Reviewed By/Date:

112119-74586 12/03/201915:20

| iCAP 6000 / (6500) Data Review Checklist | Analysis Date: 11/20/19 | Data File: 0005005.ds | Date of review: 12/2/19 |
|---|---|---|---|
| Cal Std ID: MI583 LIMS #: 1667666 | Analyst: | Reviewer: MOS | Approved? (Yes) No |
| Is Audit Trail turned on or Manual Manipulations addressed? (Yes) No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change) | | | |

| QC Parameters : 6010 / 200.7 / OSM / Other | YES | NO | YES | NO | Comments: |
|---|---|---|---|---|---|
| 1) Calibration linearity: (r ≥ 0.995) / r > 0.998 | ✓ | | ✓ | | |
| 2) ICV: ( 90-110%) / 95-105% | ✓ | | ✓ | | |
| 2) ICVLL: 70-130% / (80-120%) | ✓ | | ✓ | | |
| 3) ICB: < 3X IDL / (<LOD) <LOQ | ✓ | | ✓ | | |
| 4) ICSA: < ABS LOD | ✓ | | ✓ | | |
| 5) ICSAB: 80-120% | ✓ | | ✓ | | |
| 6) MRL/LLOQ: (70-130%) / 80-120% | ✓ | | ✓ | | |
| 7) MDL Check: >LOD | | | | | |
| 8) CCV1/CCB1 (CCV: 90-110% ) | ✓ | | ✓ | | |
| 9) CCV2/CCB2 (CCB: < 3X IDL / <LOD / <LOQ) | | | | | |
| 10) CCV3/CCB3 | | | | | |
| 11) CCV4/CCB4 | | | | | |
| 12) CCV5/CCB5 | | | | | |

| Preparation Batch Parameters | YES | NO | YES | NO | Comments: |
|---|---|---|---|---|---|
| Prep Batch ID#: 74587 Dig. Meth. 200.2 | ✓ | | ✓ | | |
| LCS - generated limits or project specific limits | ✓ | | ✓ | | |
| MB - <LOD or ≤ ½ RL | ✓ | ✓ | ✓ | ✓ | Ba >LOD <½RL "B" & Sample >10x MB. |
| Spiked samples in batch: | | | | | |
| a) 356218 matrix = M | ✓ | ✓ | | ✓ | As, Cd, Se, Tl |
| b)_____ matrix =_____ | | | | | |
| c)_____ matrix =_____ | | | | | |
| PDS: ±15% / 20% / 25% Sample#:_____ | | | | | |
| Prep Batch ID#:_____ Dig. Meth._____ | | | | | |
| LCS - generated limits or project specific limits | | | | | |
| MB - <LOD or ≤ ½ RL | | | | | |
| Spiked samples in batch: | | | | | |
| a)_____ matrix =_____ | | | | | |
| b)_____ matrix =_____ | | | | | |
| c)_____ matrix =_____ | | | | | |
| PDS: ±15% / 20% / 25% Sample#:_____ | | | | | |
| Prep Batch ID#:_____ Dig. Meth._____ | | | | | |
| LCS - generated limits or project specific limits | | | | | |
| MB - <LOD or ≤ ½ RL | | | | | |
| Spiked samples in batch: | | | | | |
| a)_____ matrix =_____ | | | | | |
| b)_____ matrix =_____ | | | | | |
| c)_____ matrix =_____ | | | | | |
| PDS: ±15% / 20% / 25% Sample#:_____ | | | | | |
| Prep Batch ID#:_____ Dig. Meth._____ | | | | | |
| LCS - generated limits or project specific limits | | | | | |
| MB - <LOD or ≤ ½ RL | | | | | |
| Spiked samples in batch: | | | | | |
| a)_____ matrix =_____ | | | | | |
| b)_____ matrix =_____ | | | | | |
| c)_____ matrix =_____ | | | | | |
| PDS: ±15% / 20% / 25% Sample#:_____ | | | | | |

| GFAA / FLAA / CVAA Data Review checklist | | Method: 200.9 | 7000 series AA | 245.1 & 245.2 | 245.7 | 7470a / 7471a |
|---|---|---|---|---|---|---|
| Instrumentation: | THERMO M SERIES AA | | GETAC Hg ANALYZER | | | |
| Analysis Date: 11/22/19 | Data File: 112219aw | Date Review: 11/25/19 | Analyte: Hg | | | |
| Cal Std ID: M14047 | LIMS #: 66905 | Analyst: MWJ | Reviewer: | Approved? Yes | No | |

Is Audit Trail turned on or Manual Manipulations addressed? Yes / No (If no, any manual manipulations must be initialed, dated, and reason(s) stated for change)

| Calibration Parameters - | YES | NO | YES | NO | Comments: |
|---|---|---|---|---|---|
| 1) Calibration linearity - r > 0.995 | ✓ | | ✓ | | |
| 2) ICV: 90-110% 95-105% | ✓ | | ✓ | | |
| 2) ICVLL: 70-130% 80-120% | | | | | |
| 3) ICB: <IDL / <LOD / <LOQ / <½ RL | ✓ | | ✓ | | |
| 6) MRL: 70-130% | | | | | |
| 7) CCV1/CCB1- (CCV: 90-110% / 80-120%) | ✓ | | ✓ | | |
| 8) CCV2/CCB2 (CCB: <IDL / <LOD / <LOQ / <½ RL) | | | | | |
| 9) CCV3/CCB3 | | | | | |
| 10) CCV4/CCB4 | | | | | |
| 11) CCV5/CCB5 | | | | | |

| Preparation Batch Parameters | YES | NO | YES | NO | Comments: |
|---|---|---|---|---|---|
| Prep Batch ID#: 74586 Dig. Meth. 7470a | ✓ | | ✓ | | |
| LCS - generated limits or project specific limits | ✓ | | ✓ | | |
| MB - <LOD / <2.2X LOD / ≤ ½RL | ✓ | | ✓ | | |
| Spiked samples in batch: | | | | | |
| a) 356215 matrix = M | ✓ | ✓ | ✓ | ✓ | Dup invalid MSD Failed %R |
| b)_____ matrix = _____ | | | | | |
| c)_____ matrix = _____ | | | | | |
| d)_____ matrix = _____ | | | | | |
| e)_____ matrix = _____ | | | | | |
| PDS: ±15% / 20% / 25% Sample#_____ | | | | | |
| MSA Performed? Yes No | | | | | |
| Prep Batch ID#:_____ Dig. Meth._____ | | | | | |
| LCS - generated limits or project specific limits | | | | | |
| MB - <LOD / <2.2X LOD / ≤ ½RL | | | | | |
| Spiked samples in batch: | | | | | |
| a)_____ matrix = _____ | | | | | |
| b)_____ matrix = _____ | | | | | |
| c)_____ matrix = _____ | | | | | |
| d)_____ matrix = _____ | | | | | |
| e)_____ matrix = _____ | | | | | |
| PDS: ±15% / 20% / 25% Sample#_____ | | | | | |
| MSA Performed? Yes No | | | | | |
| Prep Batch ID#:_____ Dig. Meth._____ | | | | | |
| LCS - generated limits or project specific limits | | | | | |
| MB - <LOD / <2.2X LOD / ≤ ½RL | | | | | |
| Spiked samples in batch: | | | | | |
| a)_____ matrix = _____ | | | | | |
| b)_____ matrix = _____ | | | | | |
| c)_____ matrix = _____ | | | | | |
| d)_____ matrix = _____ | | | | | |
| e)_____ matrix = _____ | | | | | |
| PDS: ±15% / 20% / 25% Sample#_____ | | | | | |
| MSA Performed? Yes No | | | | | |

CT Laboratories, LLC

# ICP-6500 Instrument Run Logbook

| Date | Time: Start / End | Analyst | Analytes / Sequence I.D. | Method | LIMS # or Sample Description | Nebulizer Pressure (kpa) | Calib. Std ID | Version | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 10/29/19 | 1412 / 10/30 1652 | | 10/29 19 | DOD Cal U | 166632, 166020, 166039, 166098, 166018, 166013, 45, 166061, 166015, 19, 166021, 166038 | 260 | M13834, M13831 | V3594, V3586, V3584 | M13804, M13857, M13760, M13822, M13830 |
| 11/4/19 | 10:18 / 10/5 1230 | | 110419 to | DOD Cal U | 165793, 166115, 166234, 166131, 166179, 166124, 166219 | 260 | M13831, M13061 | V3595, V3589 | M14024, M13834, M14023, M13832, M13951, M13833 |
| 11/5/19 | 1504 / 11/6 1519 | | 110519 | DOD Cal U | 166220, 166228, 166226, 166235, 166236, 30, 166236, 166224, 166225, 166229, 166230, 166123 | 260 | M13831, M13661 | V3596, V3590, V3597 | M14024, M13834, M14023, M13832, M13951, M13833 |
| 11/6/19 | 1529 / 11/7 1446 | | 110619 | DOD Cal U | 166223, 166305, 166295, 166304, 166126, 166297, 166250, 166233, 166248, 166125, 166294, 166300, 166299, 166251, 165919, 165914 | 260 | M13831, M13661 | V3600, V3598, V3589, V3591, V3584, V3601 | M14024, M13834, M14023, M13832, M13951, M13833 |
| 11/7/19 | 1482 / 11/8 1736 | | 110719 | DOD Cal U | 166395, 166296, 166300, 165920, 165814, 166337, 165916, 165919, 165921, 166335, 166304, 165816, 166342 | 260 | M13831, M13661 | V3602, V3604, V3601 | M14024, M13834, M14023, M13832, M13951, M13833 |
| 11/12/19 | 1115 / 11/13 1247 | | 111219 | DOD Cal U | 166395, 166479, 166469, 166446, 63, 166437, 166471, 166469, 166385, 166397, 166475, 166473, 166464, 166382 | 260 | M13831, M13661 | V3607, 08, V3605 | M14024, M13834, M14023, M13832, M13951, M13833 |
| 11/13/19 | 1426 / 0256 | | 111319 | DOD Cal U | 166476, 166482, 166477, 166483, 166478 | 260 | M13831, M13661 | V3622, V3606, V3618 | M14024, M13834, M14023, M13832, M13951, M13833 |
| 11/14/19 11/20/19 | 0934 / 11/21 1302 | | 112019 | DOD Cal U | 166682, 166637, 166644, 46, 166648, 166656, 166639, 166645, 41, 166588, 166730, 166657, 166647, 166650, 166643 | 290 | M13831, M13661 | V3616, V3611, V3620, V3619 | M14024, M13834, M14023, M13832, M13951, M13833 |
| 11/19/19 11/21/19 | 1416 / 11/22 1204 | | 112119 | DOD Cal U | 166395, 166725, 166386, 166705, 166764, 166763, 166734, 166722, 166776, 166724, 166732, 166772, 166723, 166773 | 290 | M13831, M13661 | V3621, V3613 | M14024, M13834, M14023, M13832, M13951 |
| 11/22/19 | 11:22 / 20:18 NEW Data Base | | 112219 | DOD Cal U | 166823, 166828 | 290 | M13831, M13661 | V3614 Data Base Full | M14024, M13834, M14023, M13832, M13951 |
| 11/23/19 | | | 112319 | DOD Cal U | | 290 | M13831, M13661 | V3614 NEW Data Base | M14024, M13834, M14023, M13832, M13951 |
| 11/25/19 | 1348 / 1735 | | 112519 | DOD Cal U | 166828, 166858, 166854, 166845, 166826, 166852, 166855, 166902, 166824, 166850, 166967 | 290 | M13831, M13661 | V3623, V3620, V3625 | M14024, M13834, M14023, M13832, M13951 |

Comments: _____

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E-2542

Checked By / Date: _____

[redacted]

CT Laboratories

# Mercury Analyzer Instrument Run Log

Instrument ID: ~~Cetac M-6000A~~ Teledyne Hydra II
05/22/19 SF

| Analysis Date | Start Time | End Time | Analyst | LIMS Run # (s) | Method File ID # | Cal. Std. ID # | Lamp Current (mA) | Analysis Tube Lot # | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 11/13/19 | 0854 | 1317 | MDS | 166515, 166514, 166507, 166560, 166561, 166513, 166509, 166511, 166510, 166512, 166506, 166505, | 111319W | M14040 | 9.926 | 289548 | $SnCl_2$: M14046 |
| 11/14/19 | 0951 | 1621 | MDS | 166487, 166488, 166491, 166497, 166489, 166485 | 1114195 | M14040 | 9.856 | 289548 | $SnCl_2$: M14046 |
| 11/15/19 | 0711 | 1034 | MDS | 166495, 166487, 166499, 166498, 166488, 166489 | 1115195 | M14040 | 9.871 | 283178 | $SnCl_2$: M14046 |
| 11/20/19 | 1110 | 1435 | MDS | 166801, 166800, 166798, 166799 | 1120195 | M14047 | 9.875 | 283178 | $SnCl_2$: M14058 |
| 11/22/19 | 0931 | 1112 | MDS | 166910, 166909, 166906, 166907 | 1122195W | M14047 | — | 283178 | $SnCl_2$: M14058 |
| 11/23/19 | ~~0925~~ 1249 | 1805 | MDS | 166913, 166912, 166908, 166907, 166914, 166915, 166905, 166911 | 1122196W | M14047 | — | 283178 | $SnCl_2$: M14058 |
| 12/3/19 | 0935 | 1413 | MDS | 167136, 167137, 167141, 167140, 167139, 167132, 167133, 167138, 167134, 167135 | 120319W | M14059 | 9.831 | 283178 | $SnCl_2$: M14063 |
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Reviewed By/Date:_____

| Type | Date/Time | Message | User name | Application | Sequence Name |
|---|---|---|---|---|---|
| | 11/19/2019 08:19:18 | Running 353506 (116) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 08:25:43 | Running msw353506 (117) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 08:31:53 | Running 353507 (118) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 08:38:18 | Running 356503 (119) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 08:45:04 | Running 356519 (120) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 08:51:47 | Running ccv1 (28) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 08:57:38 | Running ccv2 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:03:08 | Running ccb (27) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:09:19 | Running 356535 (121) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:16:04 | Running 356537 (122) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:22:37 | Running 356539 (123) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:29:03 | Running 356541 (124) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:35:39 | Running 357316 (125) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:42:04 | Running MRL/LLOQ (25) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:47:56 | Running ccv1 (31) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:53:49 | Running ccv2 (29) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 09:59:16 | Running ccb (30) | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 10:05:07 | Autosampler Run Completed | NAH | Analyst | S_DOD Calibration |
| | 11/19/2019 13:34:35 | Plasma off | NAH | iTEVA Control Center | |
| | 11/19/2019 13:34:35 | Plasma extinguished successfully | NAH | Analyst | |
| | 11/20/2019 07:53:01 | Plasma On | NAH | iTEVA Control Center | |
| | 11/20/2019 07:53:07 | Plasma ignition successful | NAH | Analyst | |
| | 11/20/2019 07:54:27 | D33534 - Debug:Wavelength check : x = 0.775, y =-0.415 | NAH | Analyst | |
| | 11/20/2019 09:34:23 | Sequence Started | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 09:34:23 | Autosampler Run Started | NAH | Analyst | |
| | 11/20/2019 09:34:57 | Running Blank (1) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 09:41:41 | Running CalStd2=0.5 (2) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 09:48:24 | Running CalStd3=1 (3) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 09:54:40 | Running CalStd4=5 (4) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:00:56 | Running CalStd5=10 (5) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:07:11 | Running CalStd6=20 (6) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:13:22 | Running CalStd7=50 (7) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:19:33 | Running CalStd8=100 (8) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:25:45 | Running CalStd9=1000 (9) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:31:19 | Running CalStd10=10000 (10) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:38:01 | Running CalStd12=100K (11) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:44:39 | Running CalStd13=100000 (12) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:50:35 | Running CalStd14=500000 (13) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 10:57:38 | Running CalibStd15=1000k (14) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:05:33 | Running Ag Ba 1000, 50000 (15) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:12:19 | Running blkrinse (22) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:18:29 | Running icv (16) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:24:42 | Running icv (16) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:30:55 | Running ICVLL (24) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:37:01 | Running icb (17) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:43:14 | Running icb (17) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:49:28 | Running MRL/LLOQ (25) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 11:55:38 | Running ICSA (20) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:02:38 | Running ICSAB (21) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:09:18 | Running blkrinse (22) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:15:28 | Running ICVLL ag (1) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:21:45 | Running lcsw74523 26 (2) | NAH | Analyst | S_DOD Calibration |

| Type | Date/Time | Message | User name | Application | Sequence Name |
|---|---|---|---|---|---|
| | 11/20/2019 12:28:03 | Running mbw 74523 26 (3) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:34:16 | Running 358081 (4) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:34:44 | Closing will close the method and all associated samples. | NAH | Analyst | |
| | 11/20/2019 12:39:19 | Closing will close the method and all associated samples. | NAH | Analyst | |
| | 11/20/2019 12:41:23 | Running l358081 (5) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:48:04 | Running dup358081 (6) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 12:55:21 | Running msw358081 (7) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:01:50 | Running msdw358081 (8) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:08:17 | Running pdsw358081 (9) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:14:42 | Running 358085 (10) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:21:15 | Running ccv1 (23) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:27:29 | Running ccv2 (18) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:33:14 | Running ccb (19) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:39:28 | Running 358087 (11) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:46:03 | Running 358089 (12) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:52:36 | Running 358091 (13) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 13:59:20 | Running 358093 (14) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:05:28 | Closing will close the method and all associated samples. | NAH | Analyst | |
| | 11/20/2019 14:05:34 | Running lcsw74491 (15) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:11:53 | Running mbw74491 (16) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:18:06 | Running 357029 (17) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:24:29 | Running 357030 (18) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:31:08 | Running 357031 (19) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:35:15 | Closing will close the method and all associated samples. | NAH | Analyst | |
| | 11/20/2019 14:37:46 | Running 357032 (20) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:44:06 | Running ccv1 (23) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:50:18 | Running ccv2 (18) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 14:56:02 | Running ccb (19) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:02:15 | Running l357032 (21) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:08:26 | Running dup357032 (22) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:14:44 | Running msw357032 (23) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:21:01 | Running msdw357032 (24) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:27:19 | Running pdsw357032 (25) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:33:43 | Running 357033 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:40:04 | Running 357034 (27) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:46:45 | Running 357035 (28) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:53:15 | Running 357036 (29) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 15:59:47 | Running 357037 (30) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:06:20 | Running ccv1 (23) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:12:31 | Running ccv2 (18) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:18:14 | Running ccb (19) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:24:28 | Running 357038 (31) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:31:02 | Running 357041 (32) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:37:16 | Running lcsw74524 (33) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:43:35 | Running mbw74524 (34) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:49:49 | Running 358082 (35) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 16:56:27 | Running l358082 (36) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:03:12 | Running dup358082 (37) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:09:50 | Running msw358082 (38) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:16:17 | Running msdw358082 (39) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:22:44 | Running pdsw358082 (40) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:29:06 | Running ccv1 (23) | NAH | Analyst | S_DOD Calibration |

| Type | Date/Time | Message | User name | Application | Sequence Name |
|---|---|---|---|---|---|
| | 11/20/2019 17:35:16 | Running ccv2 (18) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:40:59 | Running ccb (19) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:47:14 | Running 358086 (41) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 17:53:46 | Running 358088 (42) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:00:15 | Running 358090 (43) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:06:44 | Running 358092 (44) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:13:27 | Running 358094 (45) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:19:39 | Running lcsw74512 (46) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:25:59 | Running mbw74512 (47) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:32:14 | Running 357860 (48) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:38:54 | Running l357860 (49) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:45:05 | Running dup357860 (50) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:51:44 | Running ccv1 (23) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 18:57:55 | Running ccv2 (18) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:03:39 | Running ccb (19) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:09:54 | Running msw357860 (51) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:16:11 | Running msdw357860 (52) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:22:29 | Running pdsw357860 (53) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:28:54 | Running 357872 (54) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:35:34 | Running lcsw74510 (55) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:41:54 | Running mbw74510 (56) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:48:08 | Running 357861 (57) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 19:54:47 | Running l357861 (58) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:01:00 | Running dup357861 (59) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:07:40 | Running msw357861 (60) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:13:57 | Running ccv1 (23) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:20:09 | Running ccv2 (18) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:25:54 | Running ccb (19) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:32:09 | Running msdw357861 (61) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:38:27 | Running pdsw357861 (62) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:44:52 | Running 357873 (63) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:51:33 | Running lcsw74525 (64) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 20:57:53 | Running mbw74525 (65) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:04:07 | Running 358011 (66) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:10:38 | Running l358011 (67) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:17:11 | Running dup358011 (68) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:23:42 | Running msw358011 (69) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:29:57 | Running msdw358011 (70) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:36:12 | Running ccv1 (28) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:42:26 | Running ccv2 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:48:11 | Running ccb (27) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 21:54:26 | Running pdsw358011 (71) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:00:51 | Running 358012 (72) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:07:24 | Running 358013 (73) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:13:45 | Running 358014 (74) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:20:23 | Running 358015 (75) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:26:43 | Running 358016 (76) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:33:20 | Running 358019 (77) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:39:36 | Running 358022 (78) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:46:13 | Running lcsw74522 08 (79) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:52:33 | Running mbw74522 08 (80) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 22:58:49 | Running ccv1 (28) | NAH | Analyst | S_DOD Calibration |

| Type | Date/Time | Message | User name | Application | Sequence Name |
|---|---|---|---|---|---|
| | 11/20/2019 23:05:03 | Running ccv2 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:10:48 | Running ccb (27) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:17:04 | Running 357715 (81) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:23:54 | Running 358102 (82) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:30:39 | Running msw358102 (83) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:37:05 | Running msdw358102 (84) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:43:31 | Running pdsw358102 (85) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:49:54 | Running 357351 (86) | NAH | Analyst | S_DOD Calibration |
| | 11/20/2019 23:56:40 | Running msw357351 (87) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:03:31 | Running msdw357351 (88) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:10:22 | Running pdsw357351 (89) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:16:59 | Running lcsw74520 (90) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:23:19 | Running ccv1 (28) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:29:32 | Running ccv2 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:35:17 | Running ccb (27) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:41:33 | Running mbw74520 (91) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:47:49 | Running 358065 (92) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 00:54:03 | Running msw358065 (93) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:00:26 | Running msdw358065 (94) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:06:51 | Running pdsw358065 (95) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:13:16 | Running 358267 (96) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:19:38 | Running 358269 (97) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:26:01 | Running lcss74492 (98) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:31:58 | Running mbs74492 (99) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:38:15 | Running 357025 (100) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:44:40 | Running ccv1 (28) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:50:53 | Running ccv2 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 01:56:37 | Running ccb (27) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:02:53 | Running mss357025 (101) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:08:45 | Running msds357025 (102) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:14:37 | Running 357487 (104) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:21:06 | Running 357489 (103) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:27:26 | Running 357311 (105) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:33:53 | Running 357463 (106) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:40:26 | Running 358279 (107) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:46:38 | Running msw358279 (108) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:53:00 | Running msdw358279 (109) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 02:59:23 | Running 358623 (110) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:06:03 | Running ccv1 (28) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:12:16 | Running ccv2 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:18:01 | Running ccb (27) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:24:22 | Running 358625 (111) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:31:05 | Running lcswtclp (112) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:37:32 | Running mbwtclp (113) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:43:47 | Running 353506 (114) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:50:35 | Running msw353506 (115) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 03:57:06 | Running 353507 (116) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:03:54 | Running 356503 (117) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:11:01 | Running 356519 (118) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:18:07 | Running 356535 (119) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:25:09 | Running 356537 (120) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:32:04 | Running ccv1 (28) | NAH | Analyst | S_DOD Calibration |

| Type | Date/Time | Message | User name | Application | Sequence Name |
|---|---|---|---|---|---|
| | 11/21/2019 04:38:16 | Running ccv2 (26) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:44:03 | Running ccb (27) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:50:19 | Running 356539 (121) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 04:57:06 | Running 356541 (122) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:04:01 | Running 357316 (123) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:10:50 | Running  astm lcsw (124) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:17:16 | Running  astm mbw (125) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:23:34 | Running 350242 (126) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:30:06 | Running msw350242 (127) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:36:43 | Running 350244 (128) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:43:19 | Running 350246 (129) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:49:55 | Running 350248 (130) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 05:56:21 | Running ccv1 (31) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:02:36 | Running ccv2 (29) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:08:24 | Running ccb (30) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:14:41 | Running 350259 (131) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:21:13 | Running lcsw74555 (132) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:27:35 | Running mbw74555 (133) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:33:53 | Running 358491 (134) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:40:36 | Running l358491 (135) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:47:12 | Running dup358491 (136) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 06:53:54 | Running msw358491 (137) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:00:14 | Running msdw358491 (138) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:06:35 | Running pdsw358491 (139) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:13:05 | Running lcsw74587 (140) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:19:36 | Running ccv1 (31) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:25:52 | Running ccv2 (29) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:31:40 | Running ccb (30) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:37:59 | Running mbw74587 (141) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:44:17 | Running 356218 (142) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:51:22 | Running l356218 (143) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 07:58:32 | Running dup356218 (144) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:05:36 | Running msw356218 (145) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:12:18 | Running msdw356218 (146) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:18:58 | Running pdsw356218 (147) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:25:29 | Running lcsw74588 (148) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:32:00 | Running mbw74588 (149) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:38:19 | Running 356624 (150) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:45:24 | Running ccv1 (31) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:51:40 | Running ccv2 (29) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 08:57:27 | Running ccb (30) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:03:45 | Running 356626 (151) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:10:51 | Running l356626 (152) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:17:51 | Running dup356626 (153) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:24:57 | Running msw356626 (154) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:31:39 | Running msdw356626 (155) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:38:20 | Running pdsw356626 (156) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:44:52 | Running lcsw74599 (157) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:51:23 | Running mbw74599 (158) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 09:57:42 | Running 359180 (159) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 10:04:25 | Running msw359180 (160) | NAH | Analyst | S_DOD Calibration |
| | 11/21/2019 10:11:07 | Running ccv1 (31) | NAH | Analyst | S_DOD Calibration |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14063 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 12/03/2019 | Expiration Date: | 01/03/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.682 and dissolved **100 g** Stannous chloride M14016 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14061 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 12/02/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| Standard ID#: | M14062 | Vendor: | ENVIROMENTAL EXPRESS |
| Analyst: | BMM | Chemical: | Acid Washed TCLP Filters |
| Date Received: | 12/02/2019 | Lot #: | 400168-9305-CM |
| Expiration Date (if any): | | Catalog #: | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14058 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 11/20/2019 | Expiration Date: | 12/20/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M14017 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14059 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 12/02/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14060 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 12/02/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| Standard Log #: | M14056 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 11/26/2019 | Expiration Date: | 11/26/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.684 and **128.6 mL** 10N NaOH M14002. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M14057 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 11/26/2019 | Expiration Date: | 11/26/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.684 and **128.6 mL** 10N NaOH M14002. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard ID#: | M14054 | Vendor: | Spex Certi Prep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 11/20/2019 | Lot #: | 53-042CR |
| Expiration Date (if any): | 11/30/2020 | Catalog #: | XCTWI-5-500 |

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|---|---|---|---|
| Standard ID#: | M14055 | Vendor: | Spex Certi Prep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 11/20/2019 | Lot #: | 53-041CR |
| Expiration Date (if any): | 11/30/2019 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M14051 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 11/20/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M14052 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 11/20/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M14053 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 11/20/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14048 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 11/19/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br><br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14049 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 11/19/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14050 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 11/19/2019 | Expiration Date: | 11/20/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14045 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 11/11/2019 | Expiration Date: | 05/11/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.681 and dissolved **100 g** Stannous chloride M14017 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14046 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 11/13/19 | Expiration Date: | 05/13/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.681 and dissolved **100 g** Stannous chloride M14017 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14047 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 11/19/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. (0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| Standard Log #: | M14044 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 11/13/2019 | Expiration Date: | 11/13/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.684 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14041 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 11/09/2019 | Expiration Date: | 11/10/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14042 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 11/12/2019 | Expiration Date: | 11/13/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M14043 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | BMM | | |
| Prep Date: | 11/12/2019 | Expiration Date: | 04/12/2020 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13993 and **60 g** hydroxylamine sulfate M13874 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14038 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 11/07/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14039 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 11/07/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14040 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 11/07/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M14035 | Standard: | L2 ICV |
| Analyst: | MDS | Concentrations: | 1000 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 11/04/2019 | Expiration Date: | 02/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q $H_2O$. (0.5% $HNO_3$, 0.5% HCl)<br>Li (1000 µg/mL) M13577<br>Sn (1000 µg/mL) M14008<br>Sr (1000 µg/mL) M14007<br>Ti (1000 µg/mL) M14009<br>W (1000 µg/mL) MXXXXX | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M14036 | Standard: | List 2 MRL/ICVLL Prep Solution |
| Analyst: | MDS | Concentrations: | 5000 µg/L (W)<br>1000 µg/L (Li, Sn)<br>500 µg/L (Ti, Sr) |
| Prep Date: | 11/04/2019 | Expiration Date: | 02/2020 |

Prep:

| Analyte | MRL/ICVLL Conc. (µg/L) | Standard ID | Std. Conc. (µg/mL) | Volume (mL) Pipetted into 1 L | Expiration Date |
|---|---|---|---|---|---|
| Li | 20/60 | M13577 | 1000 | 1 | 02/2020 |
| W | 100/300 | MXXXX | 1000 | 5 | XX/XXXX |
| Ti | 10/30 | M14009 | 1000 | 0.5 | 04/2021 |
| Sr | 10/30 | M14007 | 1000 | 0.5 | 04/2021 |
| Sn | 20/60 | M14008 | 1000 | 1 | 04/2021 |
| | | | | | |

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% $HNO_3$, 0.5% HCl)

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14037 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 11/04/2019 | Expiration Date: | 05/04/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13922 and brought up to volume. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP |
| Standard Log #: | M14033 | Standard: | L2 ICAL |
| Analyst: | MDS | Concentrations: | 1 (µg/L)<br>10 (µg/L)<br>100 (µg/L)<br>1000 (µg/L)<br>10,000 (µg/L) |
| Prep Date: | 11/04/2019 | Expiration Date: | 05/30/2020 |

Prep:

| Standard Conc. (ug/L) | Pipette the following: |
|---|---|
| 1 | **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.001 mL** W (1000 µg/mL) MXXXXX into 1L = *1 µg/L* |
| 10 | **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.01 mL** W (1000 µg/mL) MXXXXX into 1L = *10 µg/L* |
| 100 | **1 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.1 mL** W (1000 µg/mL) MXXXXX into 1L = *100 µg/L* |
| 1000 (CCV) | **2 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **0.2 mL** W (1000 µg/mL) MXXXXX into 200mL = *1000 µg/L* |
| 10000 | **20 mL** of Custom Assurance Standard XCTWI-5-500 M13839 and **2 mL** W (1000 µg/mL) MXXXXX into 200mL = *10000 µg/L* |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M14034 | Standard: | List 2 ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 11/04/2019 | Expiration Date: | 02/28/2020 |

Prep:

Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **6 mL** of Fe (10,000 mg/L) M13751, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M14008, **0.1 mL** of Sr (1000 µg/mL) M14007, **0.1 mL** of Ti (1000 µg/mL) M14009, and **0.1 mL** of W (1000 µg/mL) MXXXXX and brought up to volume using Milli-Q $H_2O$.
(0.5% $HNO_3$, 0.5% HCl)

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14032 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 10/31/2019 | Expiration Date: | 10/31/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M14028 | Standard: | B&Si ICAL |
| Analyst: | MDS | Concentrations: | 50, 200, 1000, 2000 and 10,000 ug/L (B, Si) |
| Prep Date: | 10/30/2019 | Expiration Date: | 10/2020 |
| Prep: | Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13947 and Si (1000 mg/L) M13810 and brought up to volume using milli-Q $H_2O$.<br>*50 ug/L std.* - **0.05 mL** of each<br>*200 ug/L std.* - **0.2 mL** of each<br>*1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification<br>*2000 ug/L std.* - **2.0 mL** of each<br>*10,000 ug/L std.* -**10 mL** of each | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M14029 | Standard: | B & Si ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (B,Si) |
| Prep Date: | 10/30/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **0.05 mL** of B (1000 µg/mL) M13947, **0.05 mL** of Si (1000 µg/mL) M13810 and **3 mL** of Fe (10,000 mg/L) M13751 and brought up to volume using Milli-Q $H_2O$. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M14030 | Standard: | B&Si ICV |
| Analyst: | MDS | Concentrations: | 1000 ug/L (B, Si) |
| Prep Date: | 10/30/2019 | Expiration Date: | 05/30/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13839 and **1.0 mL** Si (1000 mg/L) M13981 and brought up to volume using milli-Q $H_2O$. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M14031 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | Acid Washed TCLP filters |
| Date Received: | 10/31/2019 | Lot #: | 400165 |
| Expiration Date (if any): | | Catalog #: | FG77150MM |

| | | | |
|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14024 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 10/29/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

| | | | |
|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14025 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 10/29/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14026 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 10/29/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14027 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 10/30/2019 | Expiration Date: | 04/30/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13922 and brought up to volume. | | |

MRL BASE STD M14024 Analyst NAH

Prep Date 10/30/2019



Into a 1000 mL Volumetric Flask, pipet the following:

| Analyte | (ug/L) | Std ID # | Std Conc (mg/L) | Amount (mL) to pipet into 1 L | Expiration Date |
|---|---|---|---|---|---|
| Ag | 20 | M13951 | 1000 | 1 | 02/2021 |
| Al | 400 | M13690 | 10000 | 2 | 06/2020 |
| Ba | 10 | M13949 | 1000 | 0.5 | 02/2021 |
| Be | 4 | M13579 | 1000 | 0.2 | 02/2020 |
| Cd | 5 | M13570 | 1000 | 0.25 | 01/2020 |
| Co | 10 | M13575 | 1000 | 0.5 | 01/2020 |
| Cr | 10 | M13617 | 10000 | 0.05 | 03/2020 |
| Cu | 10 | M13618 | 10000 | 0.05 | 03/2020 |
| Mg | 500 | M13752 | 10000 | 2.5 | 09/2020 |
| Mn | 10 | M13616 | 10000 | 0.05 | 03/2020 |
| Mo | 10 | M13860 | 1000 | 0.5 | 12/2020 |
| Ni | 10 | M13569 | 1000 | 0.5 | 01/2020 |
| Pb | 10 | M13615 | 10000 | 0.05 | 03/2020 |
| Sb | 20 | M13950 | 1000 | 1 | 02/2021 |
| V | 10 | M13578 | 1000 | 0.5 | 02/2020 |
| Zn | 10 | M13610 | 10000 | 0.05 | 03/2020 |
| K | 1000 | M14003 | 10000 | 5 | 04/2021 |
| Na | 1000 | M13862 | 10000 | 5 | 12/2020 |
| As | 20 | M13763 | 1000 | 1 | 12/2020 |
| Ca | 500 | M13985 | 10000 | 2.5 | 04/2021 |
| Fe | 300 | M13751 | 10000 | 1.5 | 09/2020 |
| Se | 20 | M13948 | 1000 | 1 | 02/2021 |
| Tl | 20 | M13583 | 1000 | 1 | 02/2020 |
| Si | 100 | M13810 | 1000 | 5 | 10/2020 |
| B | 20 | M13947 | 1000 | 1 | 02/2021 |
| Li | 20 | M13577 | 1000 | 1 | 02/2020 |
| W | 50 | Mxxxxxx | 1000 | 2.5 | xxxxxxxx |
| Ti | 10 | M14009 | 1000 | 0.5 | 04/2021 |
| Sr | 10 | M14007 | 1000 | 0.5 | 03/2020 |
| Sn | 50 | M14008 | 1000 | 2.5 | 04/2021 |
| S | 300 | M13604 | 10000 | 1.5 | 03/2020 |

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14022 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 10/23/2019 | Expiration Date: | 04/23/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13922 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M14023 | Standard: | ICSA |
| Analyst: | NAH | Concentrations: | **500,000 ug/L** Al, Ca, Fe, Mg<br>**10,000** V, Ce |
| Prep Date: | 10/30/2019 | Expiration Date: | 02/2020 |
| Prep: | Into a 500 mL volumetric flask, pipetted 50 **mL** Interference A std M13738 and 15 **mL** 10000 mg/L Fe M14004 5.0 **mL** 1000 mg/L V M13578 5.0 **mL** 1000 mg/L Ce M13859 and brought up to volume with milli-Q $H_2O$. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M14020 | Reagent: | Potassium Persulfate Solution |
| Analyst: | BMM | | |
| Prep Date: | 10/23/2019 | Expiration Date: | 04/23/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium persulfate M13714 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M14021 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | BMM | | |
| Prep Date: | 10/23/2019 | Expiration Date: | 04/23/2020 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13993 and **60 g** hydroxylamine sulfate M13874 and brought up to volume. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M14016 | Vendor: | LabChem |
| Analyst: | MDS | Chemical: | Stannous Chloride |
| Date Received: | 10/23/2019 | Lot #: | J267-10 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

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|---|---|---|---|
| Standard ID#: | M14017 | Vendor: | LabChem |
| Analyst: | MDS | Chemical: | Stannous Chloride |
| Date Received: | 10/23/2019 | Lot #: | J267-10 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14018 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 10/23/2019 | Expiration Date: | 10/24/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M14019 | Reagent: | Potassium Permanganate Solution |
| Analyst: | BMM | | |
| Prep Date: | 10/23/2019 | Expiration Date: | 04/23/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14012 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 10/21/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

| | | | |
|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14013 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 10/21/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M14014 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 10/21/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M14015 | Instrument: | GFAA |
| Analyst: | MDS | Reagent: | Pd/Mg Matrix Modifier |
| Prep Date: | 10/22/2019 | Expiration Date: | 09/30/2020 |
| Prep: | Into a 50 mL volumetric flask, partially filled with milli-Q $H_2O$, pipetted **15 mL** Pd Modifier M13954 and **10 mL** Mg (10,000 mg/L) M13752 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M14010 | Reagent: | SPLP ACID MIX |
| Analyst: | BMM | | 60/40 $H_2SO_4$ - $HNO_3$ |
| Prep Date: | 10/21/2019 | Expiration Date: | 10/21/2020 |
| Prep: | Into a 200 mL volumetric flask, partially filled with DI $H_2O$, add **12 g** $H_2SO_4$ AB.674 and **8 g** $HNO_3$ AB.677 and bring up to volume using DI $H_2O$. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M14011 | Reagent: | SPLP EXTRACTION FLUID EAST # |
| Analyst: | BMM | pH: | 4.20 ± 0.05 |
| Prep Date: | 10/21/2019 | Expiration Date: | 10/21/2020 |
| Prep: | Into a 20 L carboy filled with DI $H_2O$, adjust pH to 4.20 ± 0.05 using 60/40 $HNO_3$ - $H_2SO_4$ M14010. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M14005 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Y 10000 mg/L |
| Date Received: | 10/17/2019 | Lot #: | 168189-30 |
| Expiration Date (if any): | 04/2021 | Catalog #: | 4400-110M671 |

| | | | |
|---|---|---|---|
| Standard ID#: | M14006 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Si 1000 mg/L |
| Date Received: | 10/17/2019 | Lot #: | 1004985-62 |
| Expiration Date (if any): | 04/2021 | Catalog #: | S4400-1000504F |

| | | | |
|---|---|---|---|
| Standard ID#: | M14007 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sr 1000 mg/L |
| Date Received: | 10/17/2019 | Lot #: | 168227-95 |
| Expiration Date (if any): | 04/2021 | Catalog #: | S4400-1000531 |

| | | | |
|---|---|---|---|
| Standard ID#: | M14008 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sn 1000 mg/L |
| Date Received: | 10/17/2019 | Lot #: | 977645-2 |
| Expiration Date (if any): | 04/2021 | Catalog #: | S4400-1000613 |

| | | | |
|---|---|---|---|
| Standard ID#: | M14009 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ti 1000 mg/L |
| Date Received: | 10/17/2019 | Lot #: | 987438-36 |
| Expiration Date (if any): | 04/2021 | Catalog #: | S4400-1000623 |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M14000 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 10/16/2019 | Expiration Date: | 04/16/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M14001 | Vendor: | ThermoFisher |
| Analyst: | MDS | Chemical: | Nickel Nitrate Matrix Modifier |
| Date Received: | 10/17/2019 | Lot #: | 9192422 |
| Expiration Date (if any): | 04/30/2021 | Catalog #: | 39043 |

| | | | |
|---|---|---|---|
| Standard Log #: | M14002 | Reagent: | 10N NaOH |
| Analyst: | BMM | | |
| Prep Date: | 10/17/2019 | Expiration Date: | 10/17/2020 |
| Prep: | Into a 1 L volumetric flask, added **400 g** NaOH W47366 and brought up to volume. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M14003 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10000 mg/L |
| Date Received: | 10/17/2019 | Lot #: | 980507-31 |
| Expiration Date (if any): | 04/2021 | Catalog #: | 4400-10M411 |

| | | | |
|---|---|---|---|
| Standard ID#: | M14004 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Fe 10000 mg/L |
| Date Received: | 10/17/2019 | Lot #: | 998527-45 |
| Expiration Date (if any): | 04/2021 | Catalog #: | 4400-10M261 |

| | | | |
|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13997 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 10/16/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13998 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 10/16/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13999 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 10/16/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| Standard ID#: | M13993 | Vendor: | Thermo fisher Scientific |
| Analyst: | NAH | Chemical: | Sodium Chloride |
| Date Received: | 10/15/2019 | Lot #: | 193463 |
| Expiration Date (if any): | 06/2024 | Catalog #: | S271-500 |

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|---|---|---|---|
| Standard ID#: | M13994 | Vendor: | Thermo Fisher Scientific |
| Analyst: | NAH | Chemical: | Hydroxylamine Sulfate |
| Date Received: | 10/15/2019 | Lot #: | 189407 |
| Expiration Date (if any): | 05/2024 | Catalog #: | H331-500 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13995 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 10/15/2019 | Expiration Date: | 10/16/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13996 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 10/16/2019 | Expiration Date: | 10/16/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13992 | Standard: | List 2 ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 10/15/2019 | Expiration Date: | 01/2020 |
| Prep: | Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **6 mL** of Fe (10,000 mg/L) M13751, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) MXXXXX and brought up to volume using Milli-Q $H_2O$.<br>(0.5% $HNO_3$, 0.5% HCl) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13989 | Standard: | Sulfur ICAL |
| Analyst: | MDS | Concentrations: | 1000<br>10,000<br>100,000<br>1000K<br>µg/L (S) |
| Prep Date: | 10/14/2019 | Expiration Date: | 06/2020 |
| Prep: | Into four, 100 mL volumetric flasks, pipetted the following from stock standard S (10,000 µg/mL) M13696 and brought up to volume using milli-Q $H_2O$.<br>*1000 ug/L std.* - **0.01 mL**<br>*10,000 ug/L std.* - **0.1 mL**<br>*100,000 ug/L std.* -**1.0 mL**, also used as the CCV<br>*1000K ug/L std.* - **10 mL** | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13990 | Standard: | Sulfur ICV |
| Analyst: | MDS | Concentrations: | 100,000 µg/L (S) |
| Prep Date: | 10/14/2019 | Expiration Date: | 03/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **1.0 mL** of S (10,000 µg/mL) M13604 and brought up to volume using Milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13991 | Standard: | B & Si ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (B,Si) |
| Prep Date: | 10/14/2019 | Expiration Date: | 12/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **0.05 mL** of B (1000 µg/mL) M13531, **0.05 mL** of Si (1000 µg/mL) M13861 and **3 mL** of Fe (10,000 mg/L) M13751 and brought up to volume using Milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13986 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 10/15/2019 | Expiration Date: | 04/15/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13987 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 10/15/2019 | Expiration Date: | 04/15/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13988 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 10/15/2019 | Expiration Date: | 04/15/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| Standard ID#: | M13982 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Aluminum 10000 mg/L |
| Date Received: | 10/09/2019 | Lot #: | 992536-16 |
| Expiration Date (if any): | 04/2021 | Catalog #: | 4400-10M11 |

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|---|---|---|---|
| Standard ID#: | M13983 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Fe 10000 mg/L |
| Date Received: | 10/09/2019 | Lot #: | 998527-45 |
| Expiration Date (if any): | 04/2021 | Catalog #: | 4400-10M261 |

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|---|---|---|---|
| Standard ID#: | M13984 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Mg 10000 mg/L |
| Date Received: | 10/09/2019 | Lot #: | 1013353-4 |
| Expiration Date (if any): | 04/2021 | Catalog #: | 4400-10M311 |

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|---|---|---|---|
| Standard ID#: | M13985 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ca 10000 mg/L |
| Date Received: | 10/09/2019 | Lot #: | 855297-68 |
| Expiration Date (if any): | 04/2021 | Catalog #: | 4400-10M91 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13978 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 10/08/2019 | Expiration Date: | 04/08/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13979 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 10/09/2019 | Expiration Date: | 04/09/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13980 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Std |
| Date Received: | 10/08/2019 | Lot #: | 52-248CR |
| Expiration Date (if any): | 10/30/2020 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| Standard ID#: | M13981 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Silicon 1000 mg/l |
| Date Received: | 10/09/2019 | Lot #: | 1004985-62 |
| Expiration Date (if any): | 04/2021 | Catalog #: | S4400-1000504F |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13976 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 10/07/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13975 and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13977 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 10/07/2019 | Expiration Date: | 10/07/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13973 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 10/07/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13974 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 10/07/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13975 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 10/07/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13970 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 10/07/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13971 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 10/07/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13972 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 10/07/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| Standard Log #: | M13969 | Reagent: | 1:3 HNO3 |
| Analyst: | MDS | | |
| Prep Date: | 10/02/2019 | Expiration Date: | 10/02/2020 |
| Prep: | Carefully mixed **3** parts DI with **1** part $HNO_3$ AB.681 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13967 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 10/01/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13966 and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13968 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 10/01/2019 | Expiration Date: | 10/01/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13964 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 10/01/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13965 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 10/01/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13966 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 10/01/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| Standard Log #: | M13963 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 09/30/2019 | Expiration Date: | 09/30/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard ID#: | M13961 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Std. |
| Date Received: | 09/24/2019 | Lot #: | 7-093AB |
| Expiration Date (if any): | 09/30/2020 | Catalog #: | XCTWI-1-500 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13962 | Reagent: | Stannous Chloride Solution |
| Analyst: | NAH | | |
| Prep Date: | 09/25/2019 | Expiration Date: | 09/25/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13923 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13960 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 09/19/2019 | Expiration Date: | 03/19/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.678 and dissolved **100 g** Stannous chloride M13889 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13958 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 09/17/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13959 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 09/17/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13958 and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13955 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 09/17/2019 | Expiration Date: | 09/17/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13956 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 09/17/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13957 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 09/17/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| Standard Log #: | M13952 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 09/13/2019 | Expiration Date: | 09/13/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13953 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 09/13/2019 | Expiration Date: | 09/13/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard ID#: | M13954 | Vendor: | Environmental Expresss |
| Analyst: | MDS | Chemical: | 1% Pd Matrix Modifier |
| Date Received: | 09/13/2019 | Lot #: | 1925215 |
| Expiration Date (if any): | 09/30/2020 | Catalog #: | HP1900-100 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13946 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 09/10/2019 | Expiration Date: | 03/10/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13889 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13947 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Boron 1000 mg/lL |
| Date Received: | 09/10/2019 | Lot #: | 982524-80 |
| Expiration Date (if any): | 02/2021 | Catalog #: | S4400-100074 |

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|---|---|---|---|
| Standard ID#: | M13948 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Selenium 1000 mg/L |
| Date Received: | 09/10/2019 | Lot #: | 982461-61 |
| Expiration Date (if any): | 02/2021 | Catalog #: | S4400-1000491 |

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|---|---|---|---|
| Standard ID#: | M13949 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Barium 1000 mg/L |
| Date Received: | 09/10/2019 | Lot #: | 994634-28 |
| Expiration Date (if any): | 02/2021 | Catalog #: | S4400-100041 |

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|---|---|---|---|
| Standard ID#: | M13950 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Antimony 1000 mg/L |
| Date Received: | 09/10/2019 | Lot #: | 1013797-3 |
| Expiration Date (if any): | 02/2019 | Catalog #: | S4400-100023 |

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|---|---|---|---|
| Standard ID#: | M13951 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Silver 1000 mg/L |
| Date Received: | 09/10/2019 | Lot #: | 975475-71 |
| Expiration Date (if any): | 02/2021 | Catalog #: | S4400-1000511 |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13944 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 09/09/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13943 and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13945 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 09/09/2019 | Expiration Date: | 09/09/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13941 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 09/09/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13942 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 09/09/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13943 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 09/09/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13938 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 09/09/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13939 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 09/09/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13940 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 09/09/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13937 | Standard: | NaK ICSAB |
| Analyst: | MDS | Concentrations: | 500 mg/L (Al, Ca, Fe, Mg)<br>100 mg/L (Na, K) |
| Prep Date: | 09/06/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 250 mL volumetric flask, pipetted **25 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13738, **2.5 mL** of K (10,000 mg/L) M13755, **2.5 mL** of Na (10,000 mg/L) M13691 and **7.5 mL** of Fe (10,000 mg/L) M13695 and brought up to volume using Milli-Q $H_2O$.<br>(2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13933 | Standard: | Na & K ICAL |
| Analyst: | MDS | Concentrations: | 0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K) |
| Prep Date: | 09/06/2019 | Expiration Date: | 03/2020 |
| Prep: | Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13607 and K (1000 µg/mL) M13606 and brought up to volume using milli-Q $H_2O$. (2% $HNO_3$)<br>*0.5 mg/L std.* - **0.1 mL** of each<br>*1.0 mg/L std.* - **0.2 mL** of each<br>*5.0 mg/L std.* - **1.0 mL** of each<br>*10 mg/L std.* - **2.0 mL** of each<br>*50 mg/L std.* - **10 mL** of each<br>*100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification<br>*200 mg/L std.* - **40 mL** of each | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13934 | Standard: | Na,K MRL |
| Analyst: | MDS | Concentrations: | 1 mg/L (Na,K) |
| Prep Date: | 09/06/2019 | Expiration Date: | 03/2020 |
| Prep: | Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13607 and **0.5 mL** K (1000 µg/mL) M13606 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13935 | Standard: | NaK ICV |
| Analyst: | MDS | Concentrations: | 100 mg/L (Na, K) |
| Prep Date: | 09/06/2019 | Expiration Date: | 06/2020 |
| Prep: | Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13755 and Na (10,000 mg/L) M13691 and brought up to volume using Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13936 | Standard: | Na,K ICVLL |
| Analyst: | MDS | Concentrations: | 3 mg/L (Na,K) |
| Prep Date: | 09/06/2019 | Expiration Date: | 06/2020 |
| Prep: | Into a 500 mL volumetric flask, pipetted **0.15 mL** of Na (10,000 µg/mL) M13691 and **0.15 mL** K (10,000 µg/mL) M13755 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13929 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 09/03/2019 | Expiration Date: | 03/03/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13928 and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13930 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 09/03/2019 | Expiration Date: | 10/03/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13889 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13931 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 09/03/2019 | Expiration Date: | 09/03/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13932 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 09/03/2019 | Expiration Date: | 09/03/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13877. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13926 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 09/03/2019 | Expiration Date: | 03/03/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13927 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 09/03/2019 | Expiration Date: | 03/03/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13928 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 09/03/2019 | Expiration Date: | 03/03/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| Standard ID#: | M13924 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | Yttrium 10,000 mg/L |
| Date Received: | 08/29/2019 | Lot #: | 1833905 |
| Expiration Date (if any): | 02/28/2021 | Catalog #: | HP10M67-1 |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13920 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 08/27/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13919 and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13921 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 08/28/2019 | Expiration Date: | 09/28/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13889 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13922 | Vendor: | LabChem |
| Analyst: | MDS | Chemical: | Stannous Chloride Dihydrate |
| Date Received: | 08/28/2019 | Lot #: | J142-19 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

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|---|---|---|---|
| Standard ID#: | M13923 | Vendor: | LabChem |
| Analyst: | MDS | Chemical: | Stannous Chloride Dihydrate |
| Date Received: | 08/28/2019 | Lot #: | J142-19 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13917 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 08/27/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13918 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 08/27/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13919 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 08/27/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13916 | Standard: | LODW/LOQW Ag Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 10 ug/L (Ag) |
| Prep Date: | 08/26/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q $H_2O$ to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13914 | Standard: | LODS/LOQS Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 60 ug/L (Sb)<br>160 ug/L (As,Se)<br>40 ug/L (Pb)<br>50 ug/L (Tl) |
| Prep Date: | 08/26/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 200 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$.<br>**1.2 mL** of Sb (1000 mg/L) M13459<br>**3.2 mL** of As (1000 mg/L) M13863<br>**3.2 mL** of Se (1000 mg/L) M13460<br>**0.08 mL** of Pb (10,000 mg/L) M13615<br>**1.0 mL** of Tl (1000 mg/L) M13583<br><br>From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q $H_2O$ to make the spiking solution.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (1.2 *ug/L* Sb, *3.2 ug/L* As, *3.2 ug/L* Se, *0.8 ug/L* Pb, *1 ug/L* Tl) and **2 mL** spiking solution for LOQ (2.4 *ug/L* Sb, *6.4 ug/L* As, *6.4 ug/L* Se, *1.6 ug/L* Pb, *2 ug/L* Tl) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13915 | Standard: | LODW/LOQW Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 150 ug/L (Sb)<br>100 ug/L (As)<br>200 ug/L (Se)<br>45 ug/L (Pb)<br>40 ug/L (Tl) |
| Prep Date: | 08/26/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$.<br>**1.5 mL** of Sb (1000 mg/L) M13459<br>**1.0 mL** of As (1000 mg/L) M13863<br>**2.0 mL** of Se (1000 mg/L) M13460<br>**0.045 mL** of Pb (10,000 mg/L) M13615<br>**0.4 mL** of Tl (1000 mg/L) M13583<br><br>From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q $H_2O$ to make the spiking solution.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*3 ug/L* Sb, *2 ug/L* As, *4 ug/L* Se, *0.9 ug/L* Pb, *0.8 ug/L* Tl) and **2 mL** spiking solution for LOQ (*6 ug/L* Sb, *4 ug/L* As, *8 ug/L* Se, *1.8 ug/L* Pb, *1.6 ug/L* Tl) | | |

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|---|---|---|---|
| Standard Log #: | M13913 (A) | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3010 B&Si Spiking Solution |
| Prep Date: | 08/26/2019 | Expiration Date: | 12/19/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| B | 16 | M13531 | 1000 | 0.8 |
| Si | 200 | M13861 | 1000 | 10 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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| Standard Log #: | M13913 combined with A | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3010 S Spiking Solution |
| Prep Date: | 08/26/2019 | Expiration Date: | 06/20/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| S | 200 | M13696 | 10000 | 1.0 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13911 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 08/21/2019 | Expiration Date: | 02/21/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13912 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 08/21/2019 | Expiration Date: | 08/21/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13909 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 08/20/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13908 and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13910 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 08/20/2019 | Expiration Date: | 08/20/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.656 with **1** part $HNO_3$ AB.655 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13906 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 08/20/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13907 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 08/20/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13908 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 08/20/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| Standard Log #: | M13904 | Reagent: | Potassium Persulfate Solution |
| Analyst: | BMM | | |
| Prep Date: | 08/19/2019 | Expiration Date: | 08/19/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium persulfate M13059 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13905 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | BMM | | |
| Prep Date: | 08/19/2019 | Expiration Date: | 08/19/2020 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13728 and **60 g** hydroxylamine sulfate M13727 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13902 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 08/15/2019 | Expiration Date: | 02/15/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13903 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 08/15/2019 | Lot #: | 52-161Cr |
| Expiration Date (if any): | 8/30/2020 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13898 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 08/13/2019 | Expiration Date: | 08/13/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.656 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13899 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 08/13/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13900 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 08/13/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | HydraII |
| Standard Log #: | M13901 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 08/13/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13734 and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| Standard Log #: | M13897 | Standard: | GFAA Instrument Check |
| Analyst: | MDS | Final Concentration: | 12 µg/L As<br>6 µg/L Pb<br>10 µg/L Sb<br>20 µg/L Se<br>10 µg/L Tl<br>0.6 µg/L Ag |
| Prep Date: | 08/12/2019 | Expiration Date: | 10/2019 |

Into six, 100 mL volumetric flasks, add the following and bring up to volume with milli-Q $H_2O$.

| Element | Volume Pipetted (mL) | Standard Conc. (µg/mL) | Standard ID | New Conc. (µg/L) |
|---|---|---|---|---|
| As | 1 | 1000 | M13863 | 10,000 |
| Pb | 0.1 | 10,000 | M13615 | 10,000 |
| Tl | 1 | 1000 | M13583 | 10,000 |
| Se | 1 | 1000 | M13460 | 10,000 |
| Sb | 1 | 1000 | M13459 | 10,000 |
| Ag | 0.1 | 1000 | M13458 | 1000 |

Into a 1 L volumetric flask, add the following and bring up to volume with Milli-Q $H_20$. (1% $HNO_3$)

| Element | Volume Pipetted (mL) | Standard Conc. (µg/L) | New Conc. (µg/L) |
|---|---|---|---|
| As | 1.2 | 10,000 | 12 |
| Pb | 0.6 | 10,000 | 6 |
| Tl | 1.0 | 10,000 | 10 |
| Se | 2.0 | 10,000 | 20 |
| Sb | 1.0 | 10,000 | 10 |
| Ag | 0.6 | 1000 | 0.6 |

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|---|---|---|---|
| Standard Log #: | M13896 | Reagent: | 1:3 HNO3 |
| Analyst: | MDS | | |
| Prep Date: | 08/09/2019 | Expiration Date: | 08/09/2020 |
| Prep: | Carefully mixed **3** parts DI with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13895 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 08/06/2019 | Expiration Date: | 02/06/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13894 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 08/05/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13893 and brought up to volume using Milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13891 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 08/05/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13892 | Standard: | Hg CCV |
| Analyst: | MDS | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 08/05/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13893 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 08/05/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13890 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 07/29/2019 | Expiration Date: | 01/29/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13888 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13888 | Vendor: | LabChem |
| Analyst: | MDS | Chemical: | Stannous Chloride Dihydrate |
| Date Received: | 07/25/2019 | Lot #: | J142-19 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

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|---|---|---|---|
| Standard ID#: | M13889 | Vendor: | LabChem |
| Analyst: | MDS | Chemical: | Stannous Chloride Dihydrate |
| Date Received: | 07/25/2019 | Lot #: | J142-19 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13884 | Reagent: | Hg Aqua Regia |
| Analyst: | BMM | | |
| Prep Date: | 07/22/2019 | Expiration Date: | |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13885 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 07/22/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13886 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 07/22/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13887 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 07/22/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13883 | Reagent: | Stannous Chloride Solution |
| Analyst: | MDS | | |
| Prep Date: | 07/18/2019 | Expiration Date: | 01/03/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13879 | Reagent: | Hg Aqua Regia |
| Analyst: | MDS | | |
| Prep Date: | 07/18/2019 | Expiration Date: | 07/18/2020 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13880 | Standard: | Hg ICAL |
| Analyst: | MDS | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 07/18/2019 | Expiration Date: | 01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13881 | Standard: | Alt. Source Working Std. |
| Analyst: | MDS | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 07/18/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13882 | Standard: | Hg ICV/LCS |
| Analyst: | MDS | Concentration: | 3 ug/L |
| Prep Date: | 07/18/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13881 and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| Standard Log #: | M13876 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 07/18/2019 | Expiration Date: | 07/18/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13877 | Reagent: | 10N NaOH |
| Analyst: | BMM | | |
| Prep Date: | 07/18/2019 | Expiration Date: | 07/18/2020 |
| Prep: | Into a 1 L volumetric flask, added **400 g** NaOH W45383 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13878 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 07/18/2019 | Expiration Date: | 07/18/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M45383. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13873 | Reagent: | Potassium Permanganate Solution |
| Analyst: | NAH | | |
| Prep Date: | 07/17/2019 | Expiration Date: | 07/17/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13874 | Vendor: | Fisher |
| Analyst: | NAH | Chemical: | Hydroxylamine Sulfate |
| Date Received: | 07/17/2019 | Lot #: | 175511 |
| Expiration Date (if any): | | Catalog #: | H331-500 |

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|---|---|---|---|
| Standard Log #: | M13875 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | NAH | | |
| Prep Date: | 07/18/2019 | Expiration Date: | 07/18/2020 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13728 and **60 g** hydroxylamine sulfate M13727 and brought up to volume. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13872 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 07/12/2019 | Expiration Date: | 07/12/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.679 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13871 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 07/11/2019 | Expiration Date: | 07/11/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.679 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13870 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 07/10/2019 | Expiration Date: | 07/10/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.679 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13869 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 07/08/2019 | Expiration Date: | 07/08/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.680 with **1** part $HNO_3$ AB.679 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13868 | Reagent: | Stannous Chloride Solution |
| Analyst: | LJF | | |
| Prep Date: | 07/03/2019 | Expiration Date: | 01/03/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.680 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13864 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 07/02/2019 | Expiration Date: | 07/02/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13865 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | LJF | | |
| Prep Date: | 07/02/2019 | Expiration Date: | 01/02/2020 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13728 and **60 g** hydroxylamine sulfate M13727 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13866 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 07/02/2019 | Expiration Date: | 01/02/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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| Standard Log #: | M13867 | Reagent: | Potassium Persulfate Solution |
| Analyst: | LJF | | |
| Prep Date: | 07/02/2019 | Expiration Date: | 01/02/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium persulfate M13059 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13858 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 06/26/2019 | Expiration Date: | 06/26/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13859 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ce 1000 mg/L |
| Date Received: | 06-26-2019 | Lot #: | 171633-12 |
| Expiration Date (if any): | 12/2020 | Catalog #: | S4400-1000101 |

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|---|---|---|---|
| Standard ID#: | M13860 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Mo 1000 mg/L |
| Date Received: | 06-26-2019 | Lot #: | 987189-17 |
| Expiration Date (if any): | 12/2020 | Catalog #: | S4400-1000343 |

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|---|---|---|---|
| Standard ID#: | M13861 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Si 1000 mg/L |
| Date Received: | 06-26-2019 | Lot #: | 175213-60 |
| Expiration Date (if any): | 12/2020 | Catalog #: | S4400-1000504F |

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|---|---|---|---|
| Standard ID#: | M13862 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Na 10000 mg/L |
| Date Received: | 06-26-2019 | Lot #: | 752887-32 |
| Expiration Date (if any): | 12/2020 | Catalog #: | 4400-10M521 |

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|---|---|---|---|
| Standard ID#: | M13863 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | As 1000 mg/L |
| Date Received: | 06-26-2019 | Lot #: | 175385-105 |
| Expiration Date (if any): | 12/2020 | Catalog #: | S4400-100031 |

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|---|---|---|---|
| Standard Log #: | M13856 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 06/21/2019 | Expiration Date: | 06/21/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13857 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 06/21/2019 | Expiration Date: | 06/21/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13855 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 06/19/2019 | Expiration Date: | 06/19/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13851 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 06-19-2019 | Lot #: | 52-082CR |
| Expiration Date (if any): | 06/30/2020 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13852 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 06/19/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$. ($1\% HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13853 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 06/19/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$. ($1\% HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13854 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 06/19/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$. ($1\% HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13850 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 06/14/2019 | Expiration Date: | 06/14/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13849 | Instrument: | GFAA |
| Analyst: | MDS | Standard: | MDL Spiking Solution |
| Prep Date: | 06/13/2019 | Expiration Date: | 07/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (2% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| Ag | 0.2 | M13458 | 1000 | 0.01 |
| As | 2 | M13392 | 1000 | 0.1 |
| Pb | 2 | M13615 | 10000 | 0.01 |
| Sb | 2 | M13459 | 1000 | 0.1 |
| Se | 2 | M13460 | 1000 | 0.1 |
| Tl | 2 | M13583 | 1000 | 0.1 |

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

| Standard Log #: | M13848 | Instrument: | ICP 6500 |
|---|---|---|---|
| Analyst: | NAH | Standard: | LOQ 3010 DOD Metals Spiking S |
| Prep Date: | 06/11/2019 | Expiration Date: | 10/19 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$, 5% HCl)

| Analyte | MDL Conc. (ug/L) | Std. ID # | Std Conc | Volume (mL) pipetted into 1 L |
|---|---|---|---|---|
| Ag | 4 | M13458 | 1000 | 0.2 |
| Al | 36 | M13611 | **10000** | 0.18 |
| As | 24 | M13753 | 1000 | 1.2 |
| Ba | 1.8 | M13457 | 1000 | 0.09 |
| Be | 0.6 | M13579 | 1000 | 0.03 |
| Ca | 100 | M13692 | **10000** | 0.5 |
| Cd | 2.0 | M13570 | 1000 | 0.1 |
| Co | 4 | M13575 | 1000 | 0.2 |
| Cr | 4 | M13697 | **10000** | 0.02 |
| Cu | 7 | M13618 | **10000** | 0.035 |
| Fe | 100 | M13609 | **10000** | 0.5 |
| Mg | 40 | M13694 | **10000** | 0.2 |
| Mn | 4 | M13616 | **10000** | 0.02 |
| Mo | 7 | M13697 | 1000 | 0.35 |
| Ni | 6 | M13569 | 1000 | 0.2 |
| Pb | 4 | M13615 | **10000** | 0.02 |
| Sb | 12 | M13459 | 1000 | 0.6 |
| Se | 13 | M13460 | 1000 | 0.65 |
| Tl | 20 | M13583 | 1000 | 0.75 |
| V | 5 | M13578 | 1000 | 0.25 |
| Zn | 10 | M13610 | **10000** | 0.05 |

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| Standard Log #: | M13847 | Instrument: | ICP 6500 |
| Analyst: | NAH | Standard: | LOQ 3050 DOD Metals Spiking S |
| Prep Date: | 06/11/2019 | Expiration Date: | 10/19 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$, 5% HCl)

| Analyte | MDL Conc. (ug/L) | Std. ID # | Std Conc | Volume (mL) pipetted into 1 L |
|---|---|---|---|---|
| Ag | 4 | M13458 | 1000 | 0.2 |
| Al | 9.6 | M13611 | **10000** | 0.048 |
| As | 32 | M13753 | 1000 | 1.6 |
| Ba | 2 | M13457 | 1000 | 0.1 |
| Be | 1.6 | M13579 | 1000 | 0.08 |
| Ca | 56 | M13692 | **10000** | 0.28 |
| Cd | 1.6 | M13570 | 1000 | 0.08 |
| Co | 9.6 | M13575 | 1000 | 0.48 |
| Cr | 5.6 | M13697 | **10000** | 0.028 |
| Cu | 16 | M13618 | **10000** | 0.08 |
| Fe | 72 | M13609 | **10000** | 0.36 |
| Mg | 32 | M13694 | **10000** | 0.16 |
| Mn | 6 | M13616 | **10000** | 0.03 |
| Mo | 9.6 | M13697 | 1000 | 0.48 |
| Ni | 4.8 | M13569 | 1000 | 0.24 |
| Pb | 10 | M13615 | **10000** | 0.05 |
| Sb | 32 | M13459 | 1000 | 1.6 |
| Se | 16 | M13460 | 1000 | 0.8 |
| Tl | 19 | M13583 | 1000 | 0.95 |
| V | 3.2 | M13578 | 1000 | 0.16 |
| Zn | 12 | M13610 | **10000** | 0.06 |

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| Standard Log #: | M13845 | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3010 k&na Spiking Solution |
| Prep Date: | 06/11/2019 | Expiration Date: | 06/2020 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| K | 500 | M13811 | 10000 | 2.5 |
| Na | 600 | M13691 | 10000 | 3 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| Standard Log #: | M13846 | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3050 k&na Spiking Solution |
| Prep Date: | 06/11/2019 | Expiration Date: | 06/2020 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| K | 2640 | M13811 | 10000 | 13.2 |
| Na | 960 | M13691 | 10000 | 4.8 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| Standard ID#: | M13839 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 06/11/2019 | Lot #: | 52-038CR |
| Expiration Date (if any): | 05/30/2020 | Catalog #: | XCTWI-5-500 |

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|---|---|---|---|
| Standard ID#: | M13840 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 06/11/2019 | Lot #: | 5-244AB |
| Expiration Date (if any): | 06/30/2020 | Catalog #: | XCTWWI-1-500 |

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|---|---|---|---|
| Standard ID#: | M13841 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ca 10,000 mg/L |
| Date Received: | 06/11/2019 | Lot #: | 855297-41 |
| Expiration Date (if any): | 11/2020 | Catalog #: | 4400-10M91 |

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|---|---|---|---|
| Standard ID#: | M13842 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Al 10,000 mg/L |
| Date Received: | 06/11/2019 | Lot #: | 169484-36 |
| Expiration Date (if any): | 11/2020 | Catalog #: | 4400-10M11 |

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|---|---|---|---|
| Standard ID#: | M13843 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Y 10,000 mg/L |
| Date Received: | 06/11/2019 | Lot #: | 168189-30 |
| Expiration Date (if any): | 11/20 | Catalog #: | 4400-10M671 |

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|---|---|---|---|
| Standard ID#: | M13844 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Si 1000 mg/L |
| Date Received: | 06/11/2019 | Lot #: | 175213-60 |
| Expiration Date (if any): | 11/2020 | Catalog #: | S4400-1000504F |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13838 | Standard: | LODW/LOQW Ag Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 10 ug/L (Ag) |
| Prep Date: | 06/07/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q $H_2O$ to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13836 | Standard: | LODS/LOQS Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 60 ug/L (Sb)<br>160 ug/L (As,Se)<br>40 ug/L (Pb)<br>50 ug/L (Tl) |
| Prep Date: | 06/07/2019 | Expiration Date: | 07/2019 |
| Prep: | Into a 200 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$.<br>**1.2 mL** of Sb (1000 mg/L) M13459<br>**3.2 mL** of As (1000 mg/L) M13392<br>**3.2 mL** of Se (1000 mg/L) M13460<br>**0.08 mL** of Pb (10,000 mg/L) M13615<br>**1.0 mL** of Tl (1000 mg/L) M13583<br><br>From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q $H_2O$ to make the spiking solution.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (1.2 *ug/L* Sb, *3.2 ug/L* As, *3.2 ug/L* Se, *0.8 ug/L* Pb, *1 ug/L* Tl) and **2 mL** spiking solution for LOQ (2.4 *ug/L* Sb, *6.4 ug/L* As, *6.4 ug/L* Se, *1.6 ug/L* Pb, *2 ug/L* Tl) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13837 | Standard: | LODW/LOQW Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 150 ug/L (Sb)<br>100 ug/L (As)<br>200 ug/L (Se)<br>45 ug/L (Pb)<br>40 ug/L (Tl) |
| Prep Date: | 06/07/2019 | Expiration Date: | 07/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$.<br>**1.5 mL** of Sb (1000 mg/L) M13459<br>**1.0 mL** of As (1000 mg/L) M13392<br>**2.0 mL** of Se (1000 mg/L) M13460<br>**0.045 mL** of Pb (10,000 mg/L) M13615<br>**0.4 mL** of Tl (1000 mg/L) M13583<br><br>From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q $H_2O$ to make the spiking solution.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*3 ug/L* Sb, *2 ug/L* As, *4 ug/L* Se, *0.9 ug/L* Pb, *0.8 ug/L* Tl) and **2 mL** spiking solution for LOQ (*6 ug/L* Sb, *4 ug/L* As, *8 ug/L* Se, *1.8 ug/L* Pb, *1.6 ug/L* Tl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13835 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 06/06/2019 | Expiration Date: | 06/06/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13832 | Standard: | CCV1 |
| Analyst: | NAH | Concentrations: | **5000 µg/L** Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn<br>**500 µg/L** Ag, Be, Cd |
| Prep Date: | 06/03/2019 | Expiration Date: | 02/20 |
| Prep: | Into a 1 L volumetric flask, pipetted **50 mL** Custom Assurance Standard #23 XCTWI-5-500 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and **5.0 mL** of Custom Assurance Std. #3 XCTWI-4-500 (100 mg/L Ag, Be, Cd) M13827 and brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13833 | Standard: | CCV2 |
| Analyst: | NAH | Concentrations: | **500 µg/L** Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn<br>**50 µg/L** Ag, Be, Cd |
| Prep Date: | 06/03/2019 | Expiration Date: | 02/20 |
| Prep: | Into a 1 L volumetric flask, pipetted **5 mL** Custom Assurance Standard #23 XCTWI-5-500 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and **0.5 mL** of Custom Assurance Std. #3 XCTWI-4-500 (100 mg/L Ag, Be, Cd) M13827 and brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13834 | Standard: | ICSAB |
| Analyst: | NAH | Concentrations: | **500,000 ug/L** Al, Ca, Fe, Mg<br>**500 ug/L** Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn |
| Prep Date: | 06/03/2019 | Expiration Date: | 02/20 |
| Prep: | Into a 500 mL volumetric flask, pipetted **50 mL** Interferents A Standard ((5000 mg/L Al, Ca, Mg) (2000 mg/L Fe)) M13738, **15 mL** Fe (10,000 mg/L) M13751, **2.5 mL** of Custom Assurance Std. #3 (100 mg/L Ag, Be, Cd) M13827 and **2.5 mL** Custom Assurance Std. #23 (100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13830 | Reagent: | Stannous Chloride Solution |
| Analyst: | LJF | | |
| Prep Date: | 06/03/2019 | Expiration Date: | 12/03/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13831 | Standard: | ICAL |
| Analyst: | NAH | Concentrations: | 0.25, 0.5, 1, 5, 10, 20, 50, 100, 1000, 10,000, 100k, 100,000, 500,000 and 1000k (ug/L) |
| Prep Date: | 06/03/2019 | Expiration Date: | 02/20 |
| Prep: | Using 1 L volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(5% $HNO_3$, 5% HCl)<br>*1000 ug/L Std.* - **10 mL** of Custom Assurance Std. #23 ( 100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741, **10 mL** of Custom Assurance Std. #3 (100 mg/L Ag, Be, Cd) M13827 and **1 mL** of Si (1000 mg/L) M13810 and 1 mL M13703 Ce<br>*0.25 ug/L Std.* - **0.25 mL** of the 1000 ug/L Std.<br>*0.5 ug/L Std.* - **0.5 mL** of the 1000 ug/L Std.<br>*1 ug/L Std.* - **1 mL** of the 1000 ug/L Std.<br>*5 ug/L Std.* - **5 mL** of the 1000 ug/L Std.<br>*10 ug/L Std.* - **10 mL** of the 1000 ug/L Std.<br>*20 ug/L Std.* - **20 mL** of the 1000 ug/L Std.<br>*50 ug/L Std.* - **50 mL** of the 1000 ug/L Std.<br>*100 ug/L Std.* - **1 mL** of Custom Assurance Std. (CAS) #23 and **1 mL** of CAS #3<br>*10,000 ug/L Std.* - **100 mL** CAS #23, **100 mL** CAS #3 and **1 mL** of K (10,000 mg/L) M13811.<br>*100k ug/L Std.* - **10 mL** of Cu (10,000 mg/L) M13618, **10 mL** of Mn (10,000 mg/L) M13616, **10 mL** of Cr (10,000 mg/L) M13617, **10 mL** Pb (10,000 mg/L) M13610, **10 mL** of Zn (10,000 mg/L) M13615 and **10 mL** of Na (10,000 mg/L) M13691.<br>*100,000 ug/L Std.* - **10 mL** of Mg (10,000 mg/L) M13752, **10 mL** of Fe (10,000 mg/L) M13751, **10 mL** of Ca (10,000 mg/L) M13690 and **10 mL** Al (10,000 mg/L) M13693.<br>*500,000 ug/L Std.* - **50 mL** of Mg (10,000 mg/L), **50 mL** of Fe (10,000 mg/L), **50 mL** of Ca (10,000 mg/L) and **50 mL** of Al (10,000 mg/L)<br>*1000k ug/L Std.* - **100 mL** of Mg (10,000 mg/L), **100 mL** of Fe (10,000 mg/L), **100 mL** of Ca (10,000 mg/L) and **100 mL** of Al (10,000 mg/L) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13829 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 05/31/2019 | Expiration Date: | 05/31/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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| | | Instrument: | CETAC |
| Standard Log #: | M13828 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 05/30/2019 | Expiration Date: | 05/30/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13827 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 05-29-2019 | Lot #: | XCTWI-4-500 |
| Expiration Date (if any): | 5/30/2020 | Catalog #: | 5-116AB |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13823 | Standard: | Hg CCV |
| Analyst: | LJF | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 05/24/2019 | Expiration Date: | 01/01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13824 | Reagent: | Stannous Chloride Solution |
| Analyst: | LJF | | |
| Prep Date: | 05/24/2019 | Expiration Date: | 11/24/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13825 | Reagent: | Potassium Persulfate Solution |
| Analyst: | LJF | | |
| Prep Date: | 05/24/2019 | Expiration Date: | 11/24/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium persulfate M13059 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13826 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 05/24/2019 | Expiration Date: | 11/24/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13820 | Standard: | Hg ICAL |
| Analyst: | LJF | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 05/24/2019 | Expiration Date: | 01/01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13821 | Standard: | Alt. Source Working Std. |
| Analyst: | LJF | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 05/24/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13734<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13822 | Standard: | Hg ICV/LCS |
| Analyst: | LJF | Concentration: | 3 ug/L |
| Prep Date: | 05/24/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13734 and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| Standard Log #: | M13818 | Reagent: | TCLP 1 N HCL |
| Analyst: | BMM | | |
| Prep Date: | 05/22/2019 | Expiration Date: | 05/23/2020 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, added 83 mL HCL AB.676 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13819 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 05/22/2019 | Expiration Date: | 05/22/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13817 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 05/16/2019 | Expiration Date: | 05/16/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13813 | Instrument: | GFAA |
| Analyst: | MDS | Reagent: | Pd/Mg Matrix Modifier |
| Prep Date: | 05/14/2019 | Expiration Date: | 09/30/2019 |
| Prep: | Into a 50 mL volumetric flask, partially filled with milli-Q $H_2O$, pipetted **15 mL** Pd Modifier M13600 and **10 mL** Mg (10,000 mg/L) M13694 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13814 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 05/14/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$. ($1\%$ $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13815 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 05/14/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$. ($1\%$ $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13816 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 05/14/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$. ($1\%$ $HNO_3$) | | |

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|---|---|---|---|
| Standard Log #: | M13812 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 05/13/2019 | Expiration Date: | 11/13/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13808 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Na 10,000 ug/mL |
| Date Received: | 05-09-2019 | Lot #: | 158237-121 |
| Expiration Date (if any): | 10/20 | Catalog #: | 4400-1000521-500 |

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|---|---|---|---|
| Standard ID#: | M13809 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10,000 ug/mL |
| Date Received: | 05-09-2019 | Lot #: | 832313-110 |
| Expiration Date (if any): | 10/20 | Catalog #: | 4400-1000411-500 |

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|---|---|---|---|
| Standard ID#: | M13810 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Si 1000 ug/mL |
| Date Received: | 05-09-2019 | Lot #: | 175213-60 |
| Expiration Date (if any): | 10/20 | Catalog #: | S400-1000504F |

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|---|---|---|---|
| Standard ID#: | M13811 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10,000 ug/mL |
| Date Received: | 05-09-2019 | Lot #: | 980507-14 |
| Expiration Date (if any): | 10/20 | Catalog #: | 4400-10M411-500 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13805 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 05/07/2019 | Expiration Date: | 05/07/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.677 with **1** part $HNO_3$ AB.676 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13806 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 05/07/2019 | Expiration Date: | 05/07/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13807 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 05/07/2019 | Expiration Date: | 05/07/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

MRL BASE STD M13804 Analyst NAH

Prep Date 05/07/2019



Into a 1000 mL Volumetric Flask, pipet the following:

| Analyte | (ug/L) | Std ID # | Std Conc (mg/L) | Amount (mL) to pipet into 1 L | Expiration Date |
|---|---|---|---|---|---|
| Ag | 20 | M13458 | 1000 | 1 | 10/19 |
| Al | 400 | M13611 | 10000 | 2 | 3/20 |
| Ba | 10 | M13457 | 1000 | 0.5 | 10/19 |
| Be | 4 | M13579 | 1000 | 0.2 | 2/20 |
| Cd | 5 | M13570 | 1000 | 0.25 | 1/20 |
| Co | 10 | M13575 | 1000 | 0.5 | 1/20 |
| Cr | 10 | M13617 | 10000 | 0.05 | 3/20 |
| Cu | 10 | M13618 | 10000 | 0.05 | 3/20 |
| Mg | 500 | M13694 | 10000 | 2.5 | 6/20 |
| Mn | 10 | M13616 | 10000 | 0.05 | 3/20 |
| Mo | 10 | M13697 | 1000 | 0.5 | 6/20 |
| Ni | 10 | M13569 | 1000 | 0.5 | 1/20 |
| Pb | 10 | M13615 | 10000 | 0.05 | 3/20 |
| Sb | 20 | M13579 | 1000 | 1 | 10/19 |
| V | 10 | M13578 | 1000 | 0.5 | 2/20 |
| Zn | 10 | M13610 | 10000 | 0.05 | 3/20 |
| K | 1000 | M13755 | 10000 | 5 | 9/20 |
| Na | 1000 | M13691 | 10000 | 5 | 6/20 |
| As | 20 | M13753 | 1000 | 1 | 10000 std 0.1, 9/20 |
| Ca | 500 | M13692 | 10000 | 2.5 | 6/20 |
| Fe | 300 | M13695 | 10000 | 1.5 | 6/20 |
| Se | 20 | M13460 | 1000 | 1 | 10/19 |
| Tl | 20 | M13583 | 1000 | 1 | 2/20 |
| Si | 100 | M13754 | 1000 | 5 | 9/20 |
| B | 20 | M13531 | 1000 | 1 | 12/19 |
| Li | 20 | M13577 | 1000 | 1 | 2/20 |
| W | 50 | xxxx | 1000 | 2.5 | xxxx |
| Ti | 10 | M13573 | 1000 | 0.5 | 1/20 |
| Sr | 10 | M13580 | 1000 | 0.5 | 2/20 |
| Sn | 50 | M13572 | 1000 | 2.5 | 1/20 |
| S | 300 | M13604 | 10000 | 1.5 | 3/20 |

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

Expiration Date:
10/19

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13800 | Reagent: | Stannous Chloride Solution |
| Analyst: | LJF | | |
| Prep Date: | 05/06/2019 | Expiration Date: | 11/06/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13801 | Standard: | B&Si ICAL |
| Analyst: | MDS | Concentrations: | 50, 200, 1000, 2000 and 10,000 ug/L (B, Si) |
| Prep Date: | 05/06/2019 | Expiration Date: | 12/2019 |
| Prep: | Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13531 and Si (1000 mg/L) M13731 and brought up to volume using milli-Q $H_2O$.<br>*50 ug/L std.* - **0.05 mL** of each<br>*200 ug/L std.* - **0.2 mL** of each<br>*1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification<br>*2000 ug/L std.* - **2.0 mL** of each<br>*10,000 ug/L std.* -**10 mL** of each | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13802 | Standard: | B&Si ICV |
| Analyst: | MDS | Concentrations: | 1000 ug/L (B, Si) |
| Prep Date: | 05/06/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13741 and **1.0 mL** Si (1000 mg/L) M13754 and brought up to volume using milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13803 | Standard: | B & Si ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (B,Si) |
| Prep Date: | 05/06/2019 | Expiration Date: | 09/30/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **0.05 mL** of B (1000 µg/mL) M13531, **0.05 mL** of Si (1000 µg/mL) M13731 and **3 mL** of Fe (10,000 mg/L) M13609 and brought up to volume using Milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13798 | Standard: | L2 ICV |
| Analyst: | MDS | Concentrations: | 1000 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 05/03/2019 | Expiration Date: | 01/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q $H_2O$. (0.5% $HNO_3$, 0.5% HCl)<br>Li (1000 µg/mL) M13577<br>Sn (1000 µg/mL) M13572<br>Sr (1000 µg/mL) M13580<br>Ti (1000 µg/mL) M13573<br>W (1000 µg/mL) MXXXXX | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13799 | Standard: | List 2 MRL/ICVLL Prep Solution |
| Analyst: | MDS | Concentrations: | 5000 µg/L (W)<br>1000 µg/L (Li, Sn)<br>500 µg/L (Ti, Sr) |
| Prep Date: | 05/03/2019 | Expiration Date: | 01/2020 |

Prep:

| Analyte | MRL/ICVLL Conc. (µg/L) | Standard ID | Std. Conc. (µg/mL) | Volume (mL) Pipetted into 1 L | Expiration Date |
|---|---|---|---|---|---|
| Li | 20/60 | M13577 | 1000 | 1 | 02/2020 |
| W | 100/300 | MXXXXX | 1000 | 5 | XX/XXXX |
| Ti | 10/30 | M13573 | 1000 | 0.5 | 01/2020 |
| Sr | 10/30 | M13580 | 1000 | 0.5 | 02/2020 |
| Sn | 20/60 | M13572 | 1000 | 1 | 01/2020 |
| | | | | | |

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% $HNO_3$, 0.5% HCl)

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13795 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 05/03/2019 | Expiration Date: | 05/03/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | ICP |
| Standard Log #: | M13796 | Standard: | L2 ICAL |
| Analyst: | MDS | Concentrations: | 1 (µg/L)<br>10 (µg/L)<br>100 (µg/L)<br>1000 (µg/L)<br>10,000 (µg/L) |
| Prep Date: | 05/03/2019 | Expiration Date: | 02/28/2020 |
| Prep: | Standard Conc. (ug/L) — Pipette the following:<br>1 — **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.001 mL** W (1000 µg/mL) MXXXXX into 1L = *1 µg/L*<br>10 — **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.01 mL** W (1000 µg/mL) MXXXXX into 1L = *10 µg/L*<br>100 — **1 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.1 mL** W (1000 µg/mL) MXXXXX into 1L = *100 µg/L*<br>1000 (CCV) — **2 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **0.2 mL** W (1000 µg/mL) MXXXXX into 200mL = *1000 µg/L*<br>10000 — **20 mL** of Custom Assurance Standard XCTWI-5-500 M13741 and **2 mL** W (1000 µg/mL) MXXXXX into 200mL = *10000 µg/L* | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13797 | Standard: | List 2 ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 05/03/2019 | Expiration Date: | 09/30/2019 |
| Prep: | Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **6 mL** of Fe (10,000 mg/L) M13609, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) MXXXXX and brought up to volume using Milli-Q $H_2O$.<br>(0.5% $HNO_3$, 0.5% HCl) | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13793 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 05/02/2019 | Expiration Date: | 11/02/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13793 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13794 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | LJF | | |
| Prep Date: | 05/02/2019 | Expiration Date: | 11/02/2019 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13511 and **60 g** hydroxylamine sulfate M13727 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13790 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | Y 10000 mg/L |
| Date Received: | 04/29/2019 | Lot #: | 1833905 |
| Expiration Date (if any): | 10/31/2020 | Catalog #: | HP10M67-1 |

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|---|---|---|---|
| Standard ID#: | M13791 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 04/29/2019 | Lot #: | 51-239CR |
| Expiration Date (if any): | 02/28/2020 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13792 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 04/29/2019 | Expiration Date: | 04/29/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.677 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13785 | Vendor: | Inorganic Ventures |
| Analyst: | MDS | Chemical: | GFAA ICAL/CCV BASE STD |
| Date Received: | 04/19/2019 | Lot #: | P2-MEB678822 |
| Expiration Date (if any): | 04/19/2020 | Catalog #: | CTI-SPK-1 |

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|---|---|---|---|
| Standard ID#: | M13786 | Vendor: | Inorganic Ventures |
| Analyst: | MDS | Chemical: | GFAA ICV/SPIKE BASE STD |
| Date Received: | 04/19/2019 | Lot #: | P2-MEB678821 |
| Expiration Date (if any): | 04/19/2020 | Catalog #: | CTI-GFCAL-1 |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13787 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 04/19/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13788 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 04/19/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13785 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13789 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 04/19/2019 | Expiration Date: | 04/19/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13786 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13782 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 04/18/2019 | Expiration Date: | 04/18/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13783 | Vendor: | Alfa Aesar |
| Analyst: | MDS | Chemical: | GFAA 1% Nickel Nitrate Matrix Mod. |
| Date Received: | 04/18/2019 | Lot #: | 9166009 |
| Expiration Date (if any): | 09/30/2020 | Catalog #: | 39043 |

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|---|---|---|---|
| Standard Log #: | M13784 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 04/18/2019 | Expiration Date: | 10/18/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13780 | Reagent: | Potassium Persulfate Solution |
| Analyst: | LJF | | |
| Prep Date: | 04/17/2019 | Expiration Date: | 10/17/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium persulfate M13059 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13781 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 04/17/2019 | Expiration Date: | 04/17/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.675 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13779 | Standard: | NaK ICSAB |
| Analyst: | MDS | Concentrations: | 500 mg/L (Al, Ca, Fe, Mg)<br>100 mg/L (Na, K) |
| Prep Date: | 04/12/2019 | Expiration Date: | 09/30/2019 |
| Prep: | Into a 250 mL volumetric flask, pipetted **25 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **2.5 mL** of K (10,000 mg/L) M13693, **2.5 mL** of Na (10,000 mg/L) M13605 and **7.5 mL** of Fe (10,000 mg/L) M13609 and brought up to volume using Milli-Q $H_2O$.<br>(2% $HNO_3$) | | |

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|---|---|---|---|
| Standard Log #: | M13778 | Reagent: | 1:3 HNO3 |
| Analyst: | MDS | | |
| Prep Date: | 04/11/2019 | Expiration Date: | 04/11/2020 |
| Prep: | Carefully mixed **3** parts DI with **1** part $HNO_3$ AB.672 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13777 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 04/09/2019 | Expiration Date: | 04/09/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.675 in a hood. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13775 | Instrument: | GFAA |
| Analyst: | MDS | Reagent: | Pd/Mg Matrix Modifier |
| Prep Date: | 04/02/2019 | Expiration Date: | 09/30/2019 |
| Prep: | Into a 50 mL volumetric flask, partially filled with milli-Q $H_2O$, pipetted **15 mL** Pd Modifier M13600 and **10 mL** Mg (10,000 mg/L) M13614 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13776 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 04/03/2019 | Expiration Date: | 04/03/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.675 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13771 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 03/26/2019 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13772 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 03/26/2019 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13773 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 03/26/2019 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13774 | Standard: | Sb ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 µg/L (Sb) |
| Prep Date: | 03/26/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb)<br>M13459 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13770 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 03/25/2019 | Expiration Date: | 03/25/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.676 with **1** part $HNO_3$ AB.675 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13768 | Standard: | Hg CCV |
| Analyst: | LJF | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 03/21/2019 | Expiration Date: | 01/01/2019 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br><br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13769 | Reagent: | Stannous Chloride Solution |
| Analyst: | LJF | | |
| Prep Date: | 03/21/2019 | Expiration Date: | 09/21/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.676 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13765 | Standard: | Hg ICAL |
| Analyst: | LJF | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 03/21/2019 | Expiration Date: | 01/01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13766 | Standard: | Alt. Source Working Std. |
| Analyst: | LJF | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 03/21/2019 | Expiration Date: | 04/30/2019 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13444<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13767 | Standard: | Hg ICV/LCS |
| Analyst: | LJF | Concentration: | 3 ug/L |
| Prep Date: | 03/21/2019 | Expiration Date: | 04/30/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13444 and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl) | | |

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|---|---|---|---|
| Standard Log #: | M13763 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 03/20/2019 | Expiration Date: | 03/20/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13764 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 03/20/2019 | Expiration Date: | 03/20/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13750. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13761 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 03/19/2019 | Expiration Date: | 03/19/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.671 with **1** part $HNO_3$ AB.672 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13762 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | LJF | | |
| Prep Date: | 03/19/2019 | Expiration Date: | 09/19/2019 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13511 and **60 g** hydroxylamine sulfate M13468 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13758 | Standard: | ICSA4_Ni_Ti |
| Analyst: | NAH | Concentrations: | **10,000 ug/L** Ni and Ti |
| Prep Date: | 03/13/2019 | Expiration Date: | 01/2020 |
| Prep: | Into a 500 mL volumetric flask, pipetted 5.0 **mL** 1000 mg/L Ni M13569 5.0 **mL** 10000 mg/L Ti M13573 brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13759 | Standard: | ICSA2_Ba_Be_Sn |
| Analyst: | NAH | Concentrations: | **10,000 ug/L** Ba, Be, and Sn |
| Prep Date: | 03/13/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 500 mL volumetric flask, pipetted 5.0 **mL** 1000 mg/L Ba M13457 5.0 **mL** 10000 mg/L Be M13579 5.0 **mL** 10000 mg/L Sn M13572 brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13760 | Standard: | ICSA |
| Analyst: | NAH | Concentrations: | **500,000 ug/L** Al, Ca, Fe, Mg<br>**10,000** V, Ce |
| Prep Date: | 03/13/2019 | Expiration Date: | 09/2019 |
| Prep: | Into a 500 mL volumetric flask, pipetted 50 **mL** Interference A std M13635 and 15 **mL** 10000 mg/L Fe M13609 5.0 **mL** 1000 mg/L V M13578 5.0 **mL** 1000 mg/L Ce M13203 and brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13756 | Standard: | ICSA1_Mn |
| Analyst: | NAH | Concentrations: | **10,000 ug/L** Mn |
| Prep Date: | 03/13/2019 | Expiration Date: | 03/2020 |
| Prep: | Into a 500 mL volumetric flask, pipetted 0.5 **mL** 10000 mg/L mn M13616 brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13757 | Standard: | ICSA3_Cr_Cu_Co_Mo |
| Analyst: | NAH | Concentrations: | **10,000 ug/L** Cr, Cu, Co and Mo |
| Prep Date: | 03/13/2019 | Expiration Date: | 01/20 |
| Prep: | Into a 500 mL volumetric flask, pipetted 0.5 **mL** 10000 mg/L Cr M13617 0.5 **mL** 10000 mg/L Cu M13618 5.0 **mL** 1000 mg/L Co M13575 5.0 **mL** 1000 mg/L Mo M13697 brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| Standard ID#: | M13751 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Fe 10000 mg/L |
| Date Received: | 03/12/2019 | Lot #: | 998527-19 |
| Expiration Date (if any): | 09/2020 | Catalog #: | 4400-10M261 |

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|---|---|---|---|
| Standard ID#: | M13752 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Mg 10000 mg/L |
| Date Received: | 03/12/2019 | Lot #: | 982185-12 |
| Expiration Date (if any): | 09/2020 | Catalog #: | 4400-10M311 |

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|---|---|---|---|
| Standard ID#: | M13753 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | As 10000 mg/L |
| Date Received: | 03/12/2019 | Lot #: | 166531-32 |
| Expiration Date (if any): | 09/2020 | Catalog #: | S4400--10M31 |

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|---|---|---|---|
| Standard ID#: | M13754 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Si 1000 mg/L |
| Date Received: | 03/12/2019 | Lot #: | 175213-60 |
| Expiration Date (if any): | 09/2020 | Catalog #: | S4400-1000504F |

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|---|---|---|---|
| Standard ID#: | M13755 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10000 mg/L |
| Date Received: | 03/12/2019 | Lot #: | 172053-77 |
| Expiration Date (if any): | 09/2020 | Catalog #: | 4400-10M411 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13749 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 03/08/2019 | Expiration Date: | 03/08/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.671 with **1** part $HNO_3$ AB.672 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13750 | Reagent: | 10N NaOH |
| Analyst: | BMM | | |
| Prep Date: | 03/08/2019 | Expiration Date: | 03/08/2020 |
| Prep: | Into a 1 L volumetric flask, added **400 g** NaOH W45383 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13748 | Vendor: | Potters Ind. LLC (Gainger) |
| Analyst: | NAH | Chemical: | Glass beads Extra Fine |
| Date Received: | 03/07/2019 | Lot #: | |
| Expiration Date (if any): | XXXXXX | Catalog #: | 6ZC13 |

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|---|---|---|---|
| | | Instrument: | ICP |
| Standard Log #: | M13746 | Standard: | L2 ICAL |
| Analyst: | MDS | Concentrations: | 1 (µg/L)<br>10 (µg/L)<br>100 (µg/L)<br>1000 (µg/L)<br>10,000 (µg/L) |
| Prep Date: | 03/04/2019 | Expiration Date: | 09/30/2019 |

Prep:

| Standard Conc. (ug/L) | Pipette the following: |
|---|---|
| 1 | **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.001 mL** W (1000 µg/mL) XXXXXX into 1L = *1 µg/L* |
| 10 | **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.01 mL** W (1000 µg/mL) XXXXXX into 1L = *10 µg/L* |
| 100 | **1 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.1 mL** W (1000 µg/mL) XXXXXX into 1L = *100 µg/L* |
| 1000 (CCV) | **2 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **0.2 mL** W (1000 µg/mL) XXXXXX into 200mL = *1000 µg/L* |
| 10000 | **20 mL** of Custom Assurance Standard XCTWI-5-500 M13602 and **2 mL** W (1000 µg/mL) XXXXXX into 200mL = *10000 µg/L* |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13747 | Standard: | List 2 ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 03/04/2019 | Expiration Date: | 09/30/2019 |

Prep:

Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **6 mL** of Fe (10,000 mg/L) M13609, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) XXXXXX and brought up to volume using Milli-Q $H_2O$.
(0.5% $HNO_3$, 0.5% HCl)

| | | | |
|---|---|---|---|
| Standard Log #: | M13743 | Instrument: | ICP 6500 |
| Analyst: | NAH | Standard: | MDL DOD Metals Spiking soln |
| Prep Date: | 02/26/2019 | Expiration Date: | 10/19 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$, 5% HCl)

| Analyte | MDL Conc. (ug/L) | Std. ID # | Std Conc | Volume (mL) pipetted into 1 L |
|---|---|---|---|---|
| Ag | 5 | M13458 | 1000 | 0.25 |
| Al | 10 | M13611 | **10000** | 0.05 |
| As | 20 | M13392 | 1000 | 1 |
| Ba | 2 | M13457 | 1000 | 0.1 |
| Be | 0.5 | M13579 | 1000 | 0.025 |
| Ca | 50 | M13692 | **10000** | 0.25 |
| Cd | 0.5 | M13570 | 1000 | 0.025 |
| Co | 2.5 | M13575 | 1000 | 0.125 |
| Cr | 5.0 | M13617 | **10000** | 0.025 |
| Cu | 10 | M13618 | **10000** | 0.05 |
| Fe | 40 | M13609 | **10000** | 0.2 |
| Mg | 25 | M13694 | **10000** | 0.125 |
| Mn | 5 | M13616 | **10000** | 0.025 |
| Mo | 2.5 | M13697 | 1000 | 0.125 |
| Ni | 5 | M13569 | 1000 | 0.25 |
| Pb | 10 | M13615 | **10000** | 0.05 |
| Sb | 20 | M13459 | 1000 | 1 |
| Se | 20 | M13460 | 1000 | 1 |
| Tl | 20 | M13583 | 1000 | 1 |
| V | 5 | M13578 | 1000 | 0.25 |
| Zn | 5 | M13610 | **10000** | 0.025 |
| Na | 500 | M13605 | **10000** | 2.5 |
| K | 500 | M13733 | **10000** | 2.5 |
| B | 20 | M13531 | 1000 | 1 |
| Si | 100 | M13731 | 1000 | 5 |
| S | 200 | M13604 | **10000** | 1 |
| Li | 20 | M13537 | 1000 | 1 |
| Sr | 20 | M13572 | 1000 | 1 |
| Sn | 20 | M13580 | 1000 | 1 |
| Ti | 20 | M13573 | 1000 | 1 |

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13740 | Standard: | Sulfur ICV |
| Analyst: | MDS | Concentrations: | 100,000 µg/L (S) |
| Prep Date: | 02/26/2019 | Expiration Date: | 03/2020 |
| Prep: | Into a 100 mL volumetric flask, pipetted **1.0 mL** of S (10,000 µg/mL) M13604 and brought up to volume using Milli-Q $H_2O$. | | |

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|---|---|---|---|
| Standard ID#: | M13741 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 02-26-2019 | Lot #: | 3-153AB |
| Expiration Date (if any): | 02/28/2020 | Catalog #: | XCTWI-5-500 |

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|---|---|---|---|
| Standard ID#: | M13742 | Vendor: | IKOHE Blasting Media |
| Analyst: | NAH | Chemical: | Glass Neads X-fine-20u |
| Date Received: | 02/26/2019 | Lot #: | 52-144 |
| Expiration Date (if any): | ********* | Catalog #: | UL-49/52-1544 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13739 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 02/22/2019 | Expiration Date: | 02/22/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.671 with **1** part $HNO_3$ AB.672 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13734 | Vendor: | SPEX CERTIPREP |
| Analyst: | LJF | Chemical: | HG 1000 ug/mL |
| Date Received: | 02/21/2019 | Lot #: | CL10-136HGY |
| Expiration Date (if any): | 02/28/2020 | Catalog #: | CLHG4-2Y |

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|---|---|---|---|
| Standard Log #: | M13735 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 02/21/2019 | Expiration Date: | 02/21/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13736 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 02/21/2019 | Expiration Date: | 02/21/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard ID#: | M13737 | Vendor: | SPEX CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Std |
| Date Received: | 02/21/2019 | Lot #: | 51-117CR |
| Expiration Date (if any): | 02/28/2020 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| Standard ID#: | M13738 | Vendor: | SPEX CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Std |
| Date Received: | 02/21/2019 | Lot #: | 2-230SGX |
| Expiration Date (if any): | 02/28/2020 | Catalog #: | INT-A1 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13730 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 02/14/2019 | Expiration Date: | 02/14/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.671 with **1** part $HNO_3$ AB.672 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13731 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Silicon 1000 ug/mL |
| Date Received: | 02/14/2019 | Lot #: | 175213-60 |
| Expiration Date (if any): | 08/20 | Catalog #: | S4400-1000504F |

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|---|---|---|---|
| Standard ID#: | M13732 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Yttrium 10000 ug/mL |
| Date Received: | 02/14/2019 | Lot #: | 139448-54 |
| Expiration Date (if any): | 08/20 | Catalog #: | 4400-10M671 |

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|---|---|---|---|
| Standard ID#: | M13733 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Potassium 10000 ug/mL |
| Date Received: | 02/14/2019 | Lot #: | 172053-36 |
| Expiration Date (if any): | 08/20 | Catalog #: | 4400-10M411 |

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|---|---|---|---|
| Standard ID#: | M13727 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | HYDROXYLAMINE SULFATE |
| Date Received: | 02/08/2019 | Lot #: | 175511 |
| Expiration Date (if any): | | Catalog #: | H331-500 |

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|---|---|---|---|
| Standard ID#: | M13728 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | SODIUM CHLORIDE |
| Date Received: | 02/08/2019 | Lot #: | 186819 |
| Expiration Date (if any): | | Catalog #: | S271-500 |

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|---|---|---|---|
| Standard Log #: | M13729 | Reagent: | Potassium Persulfate Solution |
| Analyst: | LJF | | |
| Prep Date: | 02/11/2019 | Expiration Date: | 08/11/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium persulfate M13059 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13724 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 02/07/2019 | Expiration Date: | 02/07/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13725 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 02/07/2019 | Expiration Date: | 02/07/2020 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.673 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13726 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 02/07/2019 | Expiration Date: | 08/07/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13721 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 02/05/2019 | Expiration Date: | 02/05/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.671 with **1** part $HNO_3$ AB.672 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13722 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | LJF | | |
| Prep Date: | 02/05/2019 | Expiration Date: | 08/05/2019 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13620 and **60 g** hydroxylamine sulfate M13468 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13723 | Reagent: | Stannous Chloride Solution |
| Analyst: | LJF | | |
| Prep Date: | 02/05/2019 | Expiration Date: | 08/05/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.671 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

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| | | Instrument: | CETAC |
| Standard Log #: | M13720 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 01/31/2019 | Expiration Date: | 01/31/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.671 with **1** part $HNO_3$ AB.672 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13716 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 01/30/2019 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13717 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 01/30/2019 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13718 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 01/30/2019 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13719 | Standard: | Sb ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 µg/L (Sb) |
| Prep Date: | 01/30/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb)<br>M13459 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13713 | Standard: | LODW/LOQW Ag Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 10 ug/L (Ag) |
| Prep Date: | 01/29/2019 | Expiration Date: | 10/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q $H_2O$ to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*) | | |

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|---|---|---|---|
| Standard ID#: | M13714 | Vendor: | ACROS ORGANICS |
| Analyst: | LJF | Chemical: | POTASSIUM PERSULFATE |
| Date Received: | 01/29/2019 | Lot #: | A0391673 |
| Expiration Date (if any): | | Catalog #: | 424185000 |

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|---|---|---|---|
| Standard ID#: | M13715 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 1/29/2019 | Lot #: | 51-013CR |
| Expiration Date (if any): | 01/30/2020 | Catalog #: | XCTWI-1-500 |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13711 | Standard: | LODS/LOQS Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 60 ug/L (Sb)<br>160 ug/L (As,Se)<br>40 ug/L (Pb)<br>50 ug/L (Tl) |
| Prep Date: | 01/29/2019 | Expiration Date: | 07/2019 |
| Prep: | Into a 200 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$.<br>**1.2 mL** of Sb (1000 mg/L) M13459<br>**3.2 mL** of As (1000 mg/L) M13392<br>**3.2 mL** of Se (1000 mg/L) M13460<br>**0.08 mL** of Pb (10,000 mg/L) M13615<br>**1.0 mL** of Tl (1000 mg/L) M13583<br><br>From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q $H_2O$ to make the spiking solution.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (1.2 *ug/L* Sb, *3.2 ug/L* As, *3.2 ug/L* Se, *0.8 ug/L* Pb, *1 ug/L* Tl) and **2 mL** spiking solution for LOQ (2.4 *ug/L* Sb, *6.4 ug/L* As, *6.4 ug/L* Se, *1.6 ug/L* Pb, *2 ug/L* Tl) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13712 | Standard: | LODW/LOQW Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 150 ug/L (Sb)<br>100 ug/L (As)<br>200 ug/L (Se)<br>45 ug/L (Pb)<br>40 ug/L (Tl) |
| Prep Date: | 01/29/2019 | Expiration Date: | 07/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$.<br>**1.5 mL** of Sb (1000 mg/L) M13459<br>**1.0 mL** of As (1000 mg/L) M13392<br>**2.0 mL** of Se (1000 mg/L) M13460<br>**0.045 mL** of Pb (10,000 mg/L) M13615<br>**0.4 mL** of Tl (1000 mg/L) M13583<br><br>From this diluted standard solution, pipetted **10 mL** into a 1 L volumetric flask and brought up to volume with Milli-Q $H_2O$ to make the spiking solution.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*3 ug/L* Sb, *2 ug/L* As, *4 ug/L* Se, *0.9 ug/L* Pb, *0.8 ug/L* Tl) and **2 mL** spiking solution for LOQ (*6 ug/L* Sb, *4 ug/L* As, *8 ug/L* Se, *1.8 ug/L* Pb, *1.6 ug/L* Tl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13710 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 01/22/2019 | Expiration Date: | 01/22/2019 |
| Prep: | Carefully mixed **3** parts HCl AB.671 with **1** part $HNO_3$ AB.672 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13709 | Standard: | NaK ICSAB |
| Analyst: | MDS | Concentrations: | 500 mg/L (Al, Ca, Fe, Mg)<br>100 mg/L (Na, K) |
| Prep Date: | 01/10/2019 | Expiration Date: | 09/30/2019 |
| Prep: | Into a 250 mL volumetric flask, pipetted **25 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13635, **2.5 mL** of K (10,000 mg/L) M13689, **2.5 mL** of Na (10,000 mg/L) M13605 and **7.5 mL** of Fe (10,000 mg/L) M13609 and brought up to volume using Milli-Q $H_2O$.<br>(2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13705 | Standard: | Na & K ICAL |
| Analyst: | MDS | Concentrations: | 0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K) |
| Prep Date: | 01/10/2019 | Expiration Date: | 03/2020 |
| Prep: | Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13607 and K (1000 µg/mL) M13606 and brought up to volume using milli-Q $H_2O$. (2% $HNO_3$)<br>*0.5 mg/L std.* - **0.1 mL** of each<br>*1.0 mg/L std.* - **0.2 mL** of each<br>*5.0 mg/L std.* - **1.0 mL** of each<br>*10 mg/L std.* - **2.0 mL** of each<br>*50 mg/L std.* - **10 mL** of each<br>*100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification<br>*200 mg/L std.* - **40 mL** of each | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13706 | Standard: | Na,K MRL |
| Analyst: | MDS | Concentrations: | 1 mg/L (Na,K) |
| Prep Date: | 01/10/2019 | Expiration Date: | 03/2020 |
| Prep: | Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13607 and **0.5 mL** K (1000 µg/mL) M13606 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13707 | Standard: | NaK ICV |
| Analyst: | MDS | Concentrations: | 100 mg/L (Na, K) |
| Prep Date: | 01/10/2019 | Expiration Date: | 03/2020 |
| Prep: | Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13689 and Na (10,000 mg/L) M13605 and brought up to volume using Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13708 | Standard: | Na,K ICVLL |
| Analyst: | MDS | Concentrations: | 3 mg/L (Na,K) |
| Prep Date: | 01/10/2019 | Expiration Date: | 03/2020 |
| Prep: | Into a 500 mL volumetric flask, pipetted **0.15 mL** of Na (10,000 µg/mL) M13605 and **0.15 mL** K (10,000 µg/mL) M13689 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| Standard Log #: | M13703 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 12/20/2018 | Expiration Date: | 12/20/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13704 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 12/20/2018 | Expiration Date: | 12/20/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13701 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | LJF | | |
| Prep Date: | 12/13/2018 | Expiration Date: | 06/13/2019 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13620 and **60 g** hydroxylamine sulfate M13468 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13696 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sulfur 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 167967-42 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M544 |

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|---|---|---|---|
| Standard ID#: | M13697 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Moybdenum 1000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 169424-59 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-1000343 |

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|---|---|---|---|
| Standard ID#: | M13698 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Silicon 1000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 175213-60 |
| Expiration Date (if any): | 06/20 | Catalog #: | S4400-10005044F |

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|---|---|---|---|
| Standard ID#: | M13699 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 12/11/2018 | Lot #: | 50-120CR |
| Expiration Date (if any): | 12/30/2019 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13700 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 12/12/2018 | Expiration Date: | 12/12/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.669 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13689 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Potassium 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 169484-36 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M11 |

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|---|---|---|---|
| Standard ID#: | M13690 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Aluminum 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 169484-36 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M11 |

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|---|---|---|---|
| Standard ID#: | M13691 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sodium 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 752887-32 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M521 |

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|---|---|---|---|
| Standard ID#: | M13692 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Calcium 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 855297-1 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M91 |

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|---|---|---|---|
| Standard ID#: | M13693 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Potassium 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 156651-78 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M261 |

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|---|---|---|---|
| Standard ID#: | M13694 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Magnesium 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 148250-72 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M311 |

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|---|---|---|---|
| Standard ID#: | M13695 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Iron 10,000 mg/L |
| Date Received: | 12/11/2018 | Lot #: | 156651-78 |
| Expiration Date (if any): | 06/20 | Catalog #: | 4400-10M261 |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13686 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 12/07/2018 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13687 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 12/07/2018 | Expiration Date: | 05/17/2018 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13688 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 12/07/2018 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| Standard Log #: | M13684 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 12/04/2018 | Expiration Date: | 06/04/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13683 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | 10000 mg/L |
| Date Received: | 11/30/2018 | Lot #: | 1805105 |
| Expiration Date (if any): | 5/31/2020 | Catalog #: | HP10M67-1 |

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|---|---|---|---|
| Standard Log #: | M13681 | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3050 B&Si Spiking Solution |
| Prep Date: | 11/29/2018 | Expiration Date: | 02/2020 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| B | 52 | M13531 | 1000 | 2.6 |
| Si | 192 | M13394 | 1000 | 9.6 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13682 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 11/29/2018 | Expiration Date: | 11/29/2018 |

Prep: Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.669 in a hood.

| | | | |
|---|---|---|---|
| Standard Log #: | M13679 | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3050 L2 Spiking Solution |
| Prep Date: | 11/29/2018 | Expiration Date: | 02/2020 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| Li | 14.4 | M13517 | 1000 | 0.72 |
| Sn | 20 | M13572 | 1000 | 1 |
| Sr | 3.2 | M13586 | 1000 | 0.16 |
| Ti | 9.6 | M13573 | 1000 | 0.48 |
| W | 24 | xxxxxxxx | 1000 | 1.2 |
| | | | | |

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

| | | | |
|---|---|---|---|
| Standard Log #: | M13680 | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3010 B&Si Spiking Solution |
| Prep Date: | 11/29/2018 | Expiration Date: | 07/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| B | 16 | M13531 | 1000 | 0.8 |
| Si | 200 | M13394 | 1000 | 10 |
| | | | | |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

| | | | |
|---|---|---|---|
| Standard Log #: | M13677 | Instrument: | ICP 6500 |
| Analyst: | NAH | Standard: | LOQ 3050 DOD Metals Spiking S |
| Prep Date: | 11/29/2018 | Expiration Date: | 04/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$, 5% HCl)

| Analyte | MDL Conc. (ug/L) | Std. ID # | Std Conc | Volume (mL) pipetted into 1 L |
|---|---|---|---|---|
| Ag | 4 | M13458 | 1000 | 0.2 |
| Al | 9.6 | M13562 | **10000** | 0.048 |
| As | 32 | M13392 | 1000 | 1.6 |
| Ba | 2 | M13457 | 1000 | 0.1 |
| Be | 1.6 | M13579 | 1000 | 0.08 |
| Ca | 56 | M13324 | **10000** | 0.28 |
| Cd | 1.6 | M13570 | 1000 | 0.08 |
| Co | 9.6 | M13575 | 1000 | 0.48 |
| Cr | 5.6 | M13617 | **10000** | 0.028 |
| Cu | 16 | M13618 | **10000** | 0.08 |
| Fe | 72 | M13463 | **10000** | 0.36 |
| Mg | 32 | M13319 | **10000** | 0.16 |
| Mn | 6 | M13616 | **10000** | 0.03 |
| Mo | 9.6 | M13608 | 1000 | 0.48 |
| Ni | 4.8 | M13569 | 1000 | 0.24 |
| Pb | 10 | M13610 | **10000** | 0.05 |
| Sb | 32 | M13459 | 1000 | 1.6 |
| Se | 16 | M13460 | 1000 | 0.8 |
| Tl | 19 | M13583 | 1000 | 0.95 |
| V | 3.2 | M13578 | 1000 | 0.16 |
| Zn | 12 | M13610 | **10000** | 0.06 |

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

| | | | |
|---|---|---|---|
| Standard Log #: | M13676 | Instrument: | ICP 6500 |
| Analyst: | NAH | Standard: | LOQ 3010 DOD Metals Spiking S |
| Prep Date: | 11/29/2018 | Expiration Date: | 04/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$, 5% HCl)

| Analyte | MDL Conc. (ug/L) | Std. ID # | Std Conc | Volume (mL) pipetted into 1 L |
|---|---|---|---|---|
| Ag | 4 | M13458 | 1000 | 0.2 |
| Al | 36 | M13462 | **10000** | 0.18 |
| As | 24 | M13392 | 1000 | 1.2 |
| Ba | 1.8 | M13457 | 1000 | 0.09 |
| Be | 0.6 | M13579 | 1000 | 0.03 |
| Ca | 100 | M13324 | **10000** | 0.5 |
| Cd | 2.0 | M13570 | 1000 | 0.1 |
| Co | 4 | M13575 | 1000 | 0.2 |
| Cr | 4 | M13617 | **10000** | 0.02 |
| Cu | 7 | M13618 | **10000** | 0.035 |
| Fe | 100 | M13463 | **10000** | 0.5 |
| Mg | 40 | M13319 | **10000** | 0.2 |
| Mn | 4 | M13616 | **10000** | 0.02 |
| Mo | 7 | M13608 | 1000 | 0.35 |
| Ni | 6 | M13569 | 1000 | 0.2 |
| Pb | 4 | M13610 | **10000** | 0.02 |
| Sb | 12 | M13459 | 1000 | 0.6 |
| Se | 13 | M13460 | 1000 | 0.65 |
| Tl | 20 | M13583 | 1000 | 0.75 |
| V | 5 | M13578 | 1000 | 0.25 |
| Zn | 10 | M13610 | **10000** | 0.05 |

Of this Base standard, pipet **10 mL** into a 500 mL volumetric flask to create a working std or **1 mL** into a 50 mL digestion tube for a digested working standard.

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13675 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 11/26/2018 | Expiration Date: | 11/26/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.669 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13671 | Standard: | Hg CCV |
| Analyst: | LJF | Concentration: | 3.0 ug/L Hg |
| Prep Date: | 11/21/2018 | Expiration Date: | 01/01/2020 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.<br>(0.2% $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*3.0 ug/L Std.* (CCV) - **3.0 mL** Hg (*100 ug/L*) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13672 | Reagent: | Stannous Chloride Solution |
| Analyst: | LJF | | |
| Prep Date: | 11/21/2018 | Expiration Date: | 05/21/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with 400 mL milli-Q $H_2O$, added **70 mL** hydrochloric acid AB.668 and dissolved **100 g** Stannous chloride M13648 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13673 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 11/21/2018 | Expiration Date: | 05/21/2018 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13080 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13674 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | LJF | | |
| Prep Date: | 11/21/2018 | Expiration Date: | 05/21/2018 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13620 and **60 g** hydroxylamine sulfate M13468 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13668 | Standard: | Hg ICAL |
| Analyst: | LJF | Concentrations: | 10,000, 100, 0.5, 1, 2, 4, 5, 10 ug/L |
| Prep Date: | 11/21/2018 | Expiration Date: | 01/01/2019 |
| Prep: | Using 100 mL volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$. ($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** Hg (1000 mg/L) M13574<br>*100 ug/L Std.* - **1 mL** Hg (*10,000 ug/L*)<br>*0.5 ug/L Std.* - **0.5 mL** Hg (*100 ug/L*)<br>*1 ug/L Std.* - **1 mL** Hg (*100 ug/L*)<br>*2 ug/L Std.* - **2 mL** Hg (*100 ug/L*)<br>*4 ug/L Std.* - **4 mL** Hg (*100 ug/L*)<br>*5 ug/L Std.* - **5 mL** Hg (*100 ug/L*)<br>*10 ug/L Std.* - **10 mL** Hg *(100 ug/L)* | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13669 | Standard: | Alt. Source Working Std. |
| Analyst: | LJF | Concentrations: | 10,000 and 100 ug/L |
| Prep Date: | 11/21/2018 | Expiration Date: | 04/30/2019 |
| Prep: | Into two, 100 mL volumetric flasks, pipetted the following and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl)<br>*10,000 ug/L Std.* - **1 mL** of Hg (1000 mg/L) M13444<br>*100 ug/L Std.* - **1 mL** of Hg (*10,000 ug/L working Std.*) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13670 | Standard: | Hg ICV/LCS |
| Analyst: | LJF | Concentration: | 3 ug/L |
| Prep Date: | 11/21/2018 | Expiration Date: | 04/30/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **3 mL** of Hg (*100 ug/L working Std.*) M13444 and brought up to volume using Milli-Q $H_2O$.<br>($0.2\%$ $HNO_3$, 0.2% HCl) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP |
| Standard Log #: | M13666 | Standard: | As Pb ICV1 |
| Analyst: | MDS | Concentrations: | 5000 ug/L (As,Pb) |
| Prep Date: | 11/19/2018 | Expiration Date: | 07/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **5 mL** of As (1000 mg/L) M13392 and **0.5 mL** Pb (10,000 mg/L) M13615 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$, 2% HCl) | | |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13667 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 11/19/2018 | Expiration Date: | 11/19/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.669 in a hood. | | |

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|---|---|---|---|
| Standard Log #: | M13664 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 11/16/2018 | Expiration Date: | 11/16/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13665 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 11/16/2018 | Expiration Date: | 11/16/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13659 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 11/01/2018 | Expiration Date: | 11/01/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.669 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13660 | Standard: | ICSA |
| Analyst: | NAH | Concentrations: | **500,000 ug/L** Al, Ca, Fe, Mg |
| Prep Date: | 11/01/2018 | Expiration Date: | 09/19 |
| Prep: | Into a 500 mL volumetric flask, pipetted **50 mL** Interferents A Standard ((5000 mg/L Al, Ca, Mg) (2000 mg/L Fe)) M13635 and **15 mL** Fe (10000 mg/L) M13609 and brought up to volume with milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13661 | Standard: | ICV Std. |
| Analyst: | NAH | Concentrations: | **12,000 mg/L** Al<br>**10,000 mg/L** Ca, Mg<br>**5000 mg/L** Fe<br>**2000 mg/L** As, Ba, Se, Tl<br>**500 mg/L** B, Co, Li, Mn, Mo, Ni, Pb, Sb, Sn, Sr, Ti, V, Zn<br>**250 mg/L** Cu<br>**200 mg/L** Cr<br>**50 mg/L** Ag, Be, Cd |
| Prep Date: | 11/06/2018 | Expiration Date: | 10/19 |
| Prep: | Into a 1 L volumetric flask, pipetted the following and brought up to volume with milli-Q $H_2O$.<br>**10 mL** Custom Assurance Standard #18 ((200 mg/L Al, As, Ba, Se, Tl) (100 mg/L Fe) (50 mg/L Co, Mn, Ni, Pb, Sb, V, Zn) (25 mg/L Cu) (20 mg/L Cr) (5 mg/L Ag, Be, Cd)) M13637, **2 mL** Interferents A Standard ((5000 mg/L Al, Ca, Mg) (2000 mg/L Fe)) M13635, **0.5 mL** Mo (1000 mg/L) M13608, **0.5 mL** B (1000 mg/L) M13531, **0.5 mL** Sr (1000 mg/L) M13580, **0.5 mL** Li (1000 mg/L) M13577, **0.5 mL** Sn (1000 mg/L) M13572, **0.5 mL** Ti (1000 mg/L) M13573, **0.5 mL** W (1000 mg/L) Mxxxxx, **0.5 mL** Si (1000 mg/L) M13571, **0.5 mL** S (10000 mg/L) M13530, **0.5 mL** K (10000 mg/L) M13612, and **0.5 mL** K (10000 mg/L) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13657 | Standard: | L2 ICV |
| Analyst: | MDS | Concentrations: | 1000 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 11/2/2018 | Expiration Date: | 01/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q $H_2O$. (0.5% $HNO_3$, 0.5% HCl)<br>Li (1000 µg/mL) M13577<br>Sn (1000 µg/mL) M13572<br>Sr (1000 µg/mL) M13580<br>Ti (1000 µg/mL) M13573<br>W (1000 µg/mL) XXX | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13658 | Standard: | List 2 MRL/ICVLL Prep Solution |
| Analyst: | MDS | Concentrations: | 5000 µg/L (W)<br>1000 µg/L (Li, Sn)<br>500 µg/L (Ti, Sr) |
| Prep Date: | 11/2/2018 | Expiration Date: | 01/2020 |

Prep:

| Analyte | MRL/ICVLL Conc. (µg/L) | Standard ID | Std. Conc. (µg/mL) | Volume (mL) Pipetted into 1 L | Expiration Date |
|---|---|---|---|---|---|
| Li | 20/60 | M13577 | 1000 | 1 | 02/2020 |
| W | 100/300 | XXX | 1000 | 5 | XXX |
| Ti | 10/30 | M13573 | 1000 | 0.5 | 01/2020 |
| Sr | 10/30 | M13580 | 1000 | 0.5 | 02/2020 |
| Sn | 20/60 | M13572 | 1000 | 1 | 01/2020 |
| | | | | | |

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% $HNO_3$, 0.5% HCl)

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|---|---|---|---|
| | | Instrument: | ICP |
| Standard Log #: | M13655 | Standard: | L2 ICAL |
| Analyst: | MDS | Concentrations: | 1 (µg/L)<br>10 (µg/L)<br>100 (µg/L)<br>1000 (µg/L)<br>10,000 (µg/L) |
| Prep Date: | 11/2/2018 | Expiration Date: | 02/28/2019 |
| Prep: | Standard Conc. (ug/L) | Pipette the following: | |
| | 1 | **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.001 mL** W (1000 µg/mL) xxx into 1L = *1 µg/L* | |
| | 10 | **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.01 mL** W (1000 µg/mL) xxx into 1L = *10 µg/L* | |
| | 100 | **1 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.1 mL** W (1000 µg/mL) xxx into 1L = *100 µg/L* | |
| | 1000 (CCV) | **2 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.2 mL** W (1000 µg/mL) xxx into 200mL = *1000 µg/L* | |
| | 10000 | **20 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **2 mL** W (1000 µg/mL) xxx into 200mL = *10000 µg/L* | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13656 | Standard: | List 2 ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 11/2/2018 | Expiration Date: | 02/28/2019 |
| Prep: | Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13410, **6 mL** of Fe (10,000 mg/L) M13529, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) XXX and brought up to volume using Milli-Q $H_2O$.<br>(0.5% $HNO_3$, 0.5% HCl) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13651 | Standard: | Sb ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 µg/L (Sb) |
| Prep Date: | 10/29/2018 | Expiration Date: | 10/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb) M13459 and brought to volume with Milli-Q DI $H_2O$. (1% $HNO_3$) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13652 | Standard: | NaK ICV |
| Analyst: | MDS | Concentrations: | 100 mg/L (Na, K) |
| Prep Date: | 10/29/2018 | Expiration Date: | 10/2019 |
| Prep: | Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13612 and Na (10,000 mg/L) M13461 and brought up to volume using Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| Standard ID#: | M13653 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance std |
| Date Received: | 10/29/2018 | Lot #: | 2-036AB |
| Expiration Date (if any): | 10/30/2019 | Catalog #: | XCTWI-1-500 |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13648 | Standard: | B&Si ICAL |
| Analyst: | MDS | Concentrations: | 50, 200, 1000, 2000 and 10,000 ug/L (B, Si) |
| Prep Date: | 10/26/2018 | Expiration Date: | 07/2019 |
| Prep: | Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13390 and Si (1000 mg/L) M13528 and brought up to volume using milli-Q $H_2O$.<br>*50 ug/L std.* - **0.05 mL** of each<br>*200 ug/L std.* - **0.2 mL** of each<br>*1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification<br>*2000 ug/L std.* - **2.0 mL** of each<br>*10,000 ug/L std.* -**10 mL** of each | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13649 | Standard: | B&Si ICV |
| Analyst: | MDS | Concentrations: | 1000 ug/L (B, Si) |
| Prep Date: | 10/26/2018 | Expiration Date: | 07/30/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13576 and **1.0 mL** Si (1000 mg/L) M13571 and brought up to volume using milli-Q $H_2O$. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13650 | Standard: | B & Si ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (B,Si) |
| Prep Date: | 10/27/2018 | Expiration Date: | 02/28/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13410, **0.05 mL** of B (1000 µg/mL) M13390, **0.05 mL** of Si (1000 µg/mL) M13528 and **3 mL** of Fe (10,000 mg/L) M13529 and brought up to volume using Milli-Q $H_2O$. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13645 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 10/24/2018 | Expiration Date: | 10/24/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.669 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13646 | Vendor: | Alfa Aesar |
| Analyst: | MDS | Chemical: | 1% Nickel Nitrate Matrix Modifier |
| Date Received: | 10/25/2018 | Lot #: | 8137324 |
| Expiration Date (if any): | 12/31/2019 | Catalog #: | 39043 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13647 | Vendor: | LabChem |
| Analyst: | LJF | Chemical: | STANNOUS CHLORIDE |
| Date Received: | 10/24/2018 | Lot #: | H226-02 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

| | | | |
|---|---|---|---|
| Standard Log #: | M13643 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 10/24/2018 | Expiration Date: | 10/24/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13644 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 10/24/2018 | Expiration Date: | 10/24/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13639 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 10/24/2018 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

| | | | |
|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13640 | Standard: | CCV Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.5 ug/L (Ag) |
| Prep Date: | 10/24/2018 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.1 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13641 | Standard: | ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 ug/L (As, Pb, Sb, Se, Tl)<br>1.0 ug/L (Ag) |
| Prep Date: | 10/24/2018 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of GFAA Custom Stock Std. ((10 ug/mL As, Pb, Sb, Se, Tl) (1.0 ug/mL Ag)) M13498 and brought to volume with Milli-Q DI $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| Standard Log #: | M13642 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 10/24/2018 | Expiration Date: | 10/24/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13638 | Standard: | GFAA Instrument Check |
| Analyst: | MDS | Final Concentration: | 10 µg/L As<br>6 µg/L Pb<br>12 µg/L Sb<br>20 µg/L Se<br>14 µg/L Tl<br>0.6 µg/L Ag |
| Prep Date: | 10/23/2018 | Expiration Date: | 07/2019 |

Into six, 100 mL volumetric flasks, add the following and bring up to volume with milli-Q $H_2O$.

| Element | Volume Pipetted (mL) | Standard Conc. (µg/mL) | Standard ID | New Conc. (µg/L) |
|---|---|---|---|---|
| As | 1 | 1000 | M13392 | 10,000 |
| Pb | 0.1 | 10,000 | M13615 | 10,000 |
| Tl | 1 | 1000 | M13583 | 10,000 |
| Se | 1 | 1000 | M13460 | 10,000 |
| Sb | 1 | 1000 | M13459 | 10,000 |
| Ag | 0.1 | 1000 | M13458 | 1000 |

Into a 1 L volumetric flask, add the following and bring up to volume with Milli-Q $H_20$. (1% $HNO_3$)

| Element | Volume Pipetted (mL) | Standard Conc. (µg/L) | New Conc. (µg/L) |
|---|---|---|---|
| As | 1.0 | 10,000 | 10 |
| Pb | 0.6 | 10,000 | 6 |
| Tl | 1.4 | 10,000 | 14 |
| Se | 2.0 | 10,000 | 20 |
| Sb | 1.2 | 10,000 | 12 |
| Ag | 0.6 | 1000 | 0.6 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13634 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Yttrium 10,0000 mg/L |
| Date Received: | 10/18/2018 | Lot #: | 139448-54 |
| Expiration Date (if any): | 04/20 | Catalog #: | 4400-10m671 |

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|---|---|---|---|
| Standard ID#: | M13635 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Interference A |
| Date Received: | 10/18/2018 | Lot #: | 2-230sgx |
| Expiration Date (if any): | 09/30/2019 | Catalog #: | INT-A1 |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13636 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 10/18/2018 | Expiration Date: | 10/18/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.665 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13637 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance standard |
| Date Received: | 10/18/2018 | Lot #: | 50-0007CR |
| Expiration Date (if any): | 10/30/2019 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13633 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 10/16/2018 | Expiration Date: | 10/16/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.668 with **1** part $HNO_3$ AB.665 in a hood. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13632 | Standard: | LODW/LOQW Ag Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 10 ug/L (Ag) |
| Prep Date: | 10/16/2018 | Expiration Date: | 10/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q $H_2O$ to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*) | | |

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|---|---|---|---|
| Standard Log #: | M13627 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 10/03/2018 | Expiration Date: | 10/03/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard Log #: | M13628 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 10/03/2018 | Expiration Date: | 10/03/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

MRL BASE STD M13626 Analyst NAH

Prep Date 10/01/2018



Into a 1000 mL Volumetric Flask, pipet the following:

| Analyte | (ug/L) | Std ID # | Std Conc (mg/L) | Amount (mL) to pipet into 1 L | Expiration Date |
|---|---|---|---|---|---|
| Ag | 20 | M13458 | 1000 | 1 | 10/2019 |
| Al | 400 | M13462 | 10000 | 2 | 10/2019 |
| Ba | 10 | M13457 | 1000 | 0.5 | 10/2019 |
| Be | 4 | M13579 | 1000 | 0.2 | 02/20 |
| Cd | 5 | M13570 | 1000 | 0.25 | 01/20 |
| Co | 10 | M13575 | 1000 | 0.5 | 01/20 |
| Cr | 10 | M13617 | 10000 | 0.05 | 03/20 |
| Cu | 10 | M13618 | 10000 | 0.05 | 03/20 |
| Mg | 500 | M13319 | 10000 | 2.5 | 04/19 |
| Mn | 10 | M13616 | 10000 | 0.05 | 03/20 |
| Mo | 10 | M13608 | 1000 | 0.5 | 03/20 |
| Ni | 10 | M13569 | 1000 | 0.5 | 03/20 |
| Pb | 10 | M13610 | 10000 | 0.05 | 03/20 |
| Sb | 20 | M13459 | 1000 | 1 | 03/20 |
| V | 10 | M13578 | 1000 | 0.5 | 02/20 |
| Zn | 10 | M13610 | 10000 | 0.05 | 02/20 |
| K | 1000 | M13341 | 10000 | 5 | 05/19 |
| Na | 1000 | M13402 | 10000 | 5 | 08/19 |
| As | 20 | M13392 | 1000 | 1 | 07/19 |
| Ca | 500 | M13324 | 10000 | 2.5 | 04/19 |
| Fe | 300 | M13463 | 10000 | 1.5 | 10/19 |
| Se | 20 | M13460 | 1000 | 1 | 10/19 |
| Tl | 20 | M13583 | 1000 | 1 | 02/20 |
| Si | 100 | M13394 | 1000 | 5 | 07/19 |
| B | 20 | M13531 | 1000 | 1 | 07/19 |
| Li | 20 | M13517 | 1000 | 1 | 02/20 |
| W | 50 | xxxxxxx | 1000 | 2.5 | xxxxxxx |
| Ti | 10 | M13573 | 1000 | 0.5 | 02/20 |
| Sr | 10 | M13586 | 1000 | 0.5 | 02/20 |
| Sn | 50 | M13572 | 1000 | 2.5 | 02/20 |
| S | 300 | M13391 | 10000 | 1.5 | 07/19 |

Of this Base standard, pipet 10 mls into 500 ml volumetric to create a working std or 1 ml into 50 ml digestion tube for a digested working standard.

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|---|---|---|---|
| Standard Log #: | M13625 | Instrument: | GFAA |
| Analyst: | MDS | Reagent: | Pd/Mg Matrix Modifier |
| Prep Date: | 10/03/2018 | Expiration Date: | 09/30/2019 |
| Prep: | Into a 50 mL volumetric flask, partially filled with milli-Q $H_2O$, pipetted **15 mL** Pd Modifier M13600 and **10 mL** Mg (10,000 mg/L) M13464 and brought up to volume. | | |

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|---|---|---|---|
| Standard ID#: | M13618 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Cu 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 148796-39 |
| Expiration Date (if any): | 03/2020 | Catalog #: | S4400-10M141 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13619 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 09/19/2018 | Expiration Date: | 09/19/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.664 with **1** part $HNO_3$ AB.665 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13620 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | SODIUM CHLORIDE |
| Date Received: | 09/04/2018 | Lot #: | 177409 |
| Expiration Date (if any): | | Catalog #: | S271-500 |

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|---|---|---|---|
| Standard ID#: | M13611 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Al 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 169484-18 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M11 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13612 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 172053-36 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 440010M411 |

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|---|---|---|---|
| Standard ID#: | M13613 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ca 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 855297-1 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M91 |

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|---|---|---|---|
| Standard ID#: | M13614 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Mg 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 148250-72 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M311 |

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|---|---|---|---|
| Standard ID#: | M13615 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Pb 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 168223-17 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M281 |

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|---|---|---|---|
| Standard ID#: | M13616 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Mn 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 167540-6 |
| Expiration Date (if any): | 03/2020 | Catalog #: | S4400-10M321 |

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|---|---|---|---|
| Standard ID#: | M13617 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Cr 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 158236-7 |
| Expiration Date (if any): | 03/2020 | Catalog #: | s4400-10M121 |

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|---|---|---|---|
| Standard ID#: | M13604 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sulfur 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 167967-37 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M544 |

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|---|---|---|---|
| Standard ID#: | M13605 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sodium 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 752887-3 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M521 |

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|---|---|---|---|
| Standard ID#: | M13606 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 1000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 144467-179 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-1000411-500 |

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|---|---|---|---|
| Standard ID#: | M13607 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Na 1000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 158237-113 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-1000521-500 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13608 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Mo 1000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 169424-37 |
| Expiration Date (if any): | 03/2020 | Catalog #: | S4400-1000343 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13609 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Fe 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 156651-53 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M261 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13610 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Zn 10000 mg/L |
| Date Received: | 09/20/2018 | Lot #: | 979871-2 |
| Expiration Date (if any): | 03/2020 | Catalog #: | 4400-10M681 |

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|---|---|---|---|
| Standard Log #: | M13601 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 09/12/2018 | Expiration Date: | 09/12/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

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|---|---|---|---|
| Standard ID#: | M13602 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 09-12-2018 | Lot #: | 1-124AB |
| Expiration Date (if any): | 09-30-2019 | Catalog #: | XCTWI-5-500 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13600 | Vendor: | Environmental Express |
| Analyst: | MDS | Chemical: | 1% Pd Matrix Modifier |
| Date Received: | 09/11/2018 | Lot #: | 1808015 |
| Expiration Date (if any): | 09/30/2019 | Catalog #: | HP1900-100 |

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|---|---|---|---|
| Standard Log #: | M13599 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 09/08/2018 | Expiration Date: | 09/08/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13595 | Vendor: | SPEX CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Std |
| Date Received: | 08/29/2018 | Lot #: | 49-151CR |
| Expiration Date (if any): | 08/30/2019 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13596 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 08/30/2018 | Expiration Date: | 08/30/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.664 with **1** part $HNO_3$ AB.665 in a hood. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13597 | Standard: | Na & K ICAL |
| Analyst: | MDS | Concentrations: | 0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K) |
| Prep Date: | 08/30/2018 | Expiration Date: | 05/2019 |
| Prep: | Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13339 and K (1000 µg/mL) M13340 and brought up to volume using milli-Q $H_2O$. (2% $HNO_3$)<br>*0.5 mg/L std.* - **0.1 mL** of each<br>*1.0 mg/L std.* - **0.2 mL** of each<br>*5.0 mg/L std.* - **1.0 mL** of each<br>*10 mg/L std.* - **2.0 mL** of each<br>*50 mg/L std.* - **10 mL** of each<br>*100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification<br>*200 mg/L std.* - **40 mL** of each | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13598 | Standard: | Na,K MRL |
| Analyst: | MDS | Concentrations: | 1 mg/L (Na,K) |
| Prep Date: | 08/30/2018 | Expiration Date: | 05/2019 |
| Prep: | Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13339 and **0.5 mL** K (1000 µg/mL) M13340 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$) | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13588 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 08/21/2018 | Expiration Date: | 08/21/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13589 | Reagent: | TCLP EXTRACTION FLUID #1 |
| Analyst: | BMM | pH: | 4.93 ± 0.05 |
| Prep Date: | 08/21/2018 | Expiration Date: | 08/21/2019 |
| Prep: | Into a 20 L carboy filled with 19 L of DI $H_2O$, add **114 mL** Glacial acetic acid AB.659 and **128.6 mL** 10N NaOH M13514. Dilute to 20 L and mix. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13590 | Vendor: | AMCO Clear |
| Analyst: | NAH | Chemical: | turbidity std 2.0 ntu |
| Date Received: | 08/21/2018 | Lot #: | 18272791 |
| Expiration Date (if any): | 08/2019 | Catalog #: | 8008 |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13586 | Standard: | L2 ICV |
| Analyst: | MDS | Concentrations: | 1000 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 08/20/2018 | Expiration Date: | 01/2020 |
| Prep: | Into a 1 L volumetric flask, pipetted **1.0 mL** of the following and brought up to volume using milli-Q $H_2O$. (0.5% $HNO_3$, 0.5% HCl)<br>Li (1000 µg/mL) M13577<br>Sn (1000 µg/mL) M13572<br>Sr (1000 µg/mL) M13580<br>Ti (1000 µg/mL) M13573<br>W (1000 µg/mL) MXXX | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13587 | Standard: | List 2 MRL/ICVLL Prep Solution |
| Analyst: | MDS | Concentrations: | 5000 µg/L (W)<br>1000 µg/L (Li, Sn)<br>500 µg/L (Ti, Sr) |
| Prep Date: | 08/20/2018 | Expiration Date: | 01/2020 |

Prep:

| Analyte | MRL/ICVLL Conc. (µg/L) | Standard ID | Std. Conc. (µg/mL) | Volume (mL) Pipetted into 1 L | Expiration Date |
|---|---|---|---|---|---|
| Li | 20/60 | M13577 | 1000 | 1 | 02/2020 |
| W | 100/300 | XXX | 1000 | 5 | XXX |
| Ti | 10/30 | M13573 | 1000 | 0.5 | 01/2020 |
| Sr | 10/30 | M13580 | 1000 | 0.5 | 02/2020 |
| Sn | 20/60 | M13572 | 1000 | 1 | 01/2020 |
| | | | | | |

Pipette **10 mL** into a 500 mL volumetric flask to create a working MRL std. or **1 mL** into a 50 mL digestion tube for a digested MRL standard. Pipette **30 mL** into 500 mL for a working ICVLL std. or **3 mL** into a 50 mL digestion tube for a digested ICVLL standard.

(0.5% $HNO_3$, 0.5% HCl)

| | | | |
|---|---|---|---|
| | | Instrument: | ICP |
| Standard Log #: | M13584 | Standard: | L2 ICAL |
| Analyst: | MDS | Concentrations: | 1 (µg/L)<br>10 (µg/L)<br>100 (µg/L)<br>1000 (µg/L)<br>10,000 (µg/L) |
| Prep Date: | 08/20/2018 | Expiration Date: | 07/30/2019 |
| Prep: | Standard Conc. (ug/L) | Pipette the following: | |
| | 1 | **0.01 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.001 mL** W (1000 µg/mL) MXXX into 1L = *1 µg/L* | |
| | 10 | **0.10 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.01 mL** W (1000 µg/mL) MXXX into 1L = *10 µg/L* | |
| | 100 | **1 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.1 mL** W (1000 µg/mL) MXXX into 1L = *100 µg/L* | |
| | 1000 (CCV) | **2 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **0.2 mL** W (1000 µg/mL) MXXX into 200mL = *1000 µg/L* | |
| | 10000 | **20 mL** of Custom Assurance Standard XCTWI-5-500 M13576 and **2 mL** W (1000 µg/mL) MXXX into 200mL = *10000 µg/L* | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13585 | Standard: | List 2 ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (Li, Sn, Sr, Ti, W) |
| Prep Date: | 08/20/2018 | Expiration Date: | |
| Prep: | Into a 200 mL volumetric flask, pipetted **20 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13410, **6 mL** of Fe (10,000 mg/L) M13463, **0.1 mL** of Li (1000 µg/mL) M13577, **0.1 mL** of Sn (1000 µg/mL) M13572, **0.1 mL** of Sr (1000 µg/mL) M13580, **0.1 mL** of Ti (1000 µg/mL) M13573, and **0.1 mL** of W (1000 µg/mL) MXXX and brought up to volume using Milli-Q $H_2O$.<br>(0.5% $HNO_3$, 0.5% HCl) | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13577 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Li 1000 mg/L |
| Date Received: | 08/17/2018 | Lot #: | 751942-25 |
| Expiration Date (if any): | 02/2020 | Catalog #: | S4400-1000291 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13578 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | V 1000 mg/L |
| Date Received: | 08/17/2018 | Lot #: | 152207-68 |
| Expiration Date (if any): | 02/2020 | Catalog #: | S4400-1000651 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13579 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Be 1000 mg/L |
| Date Received: | 08/17/2018 | Lot #: | 660981-5 |
| Expiration Date (if any): | 02/2020 | Catalog #: | S4400-100051 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13580 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sr 1000 mg/L |
| Date Received: | 08/17/2018 | Lot #: | 168227-29 |
| Expiration Date (if any): | 02/2020 | Catalog #: | S4400-1000531 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13581 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10000 mg/L |
| Date Received: | 08/17/2018 | Lot #: | 172053-36 |
| Expiration Date (if any): | 02/2020 | Catalog #: | 4400-10411 |

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|---|---|---|---|
| Standard ID#: | M13582 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | Y 10000 mg/L |
| Date Received: | 08/17/2018 | Lot #: | 1805105 |
| Expiration Date (if any): | 02/2020 | Catalog #: | HP10M67-1 |

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|---|---|---|---|
| Standard ID#: | M13583 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Tl 1000 mg/L |
| Date Received: | 08/17/2018 | Lot #: | 148983-70 |
| Expiration Date (if any): | 02/2020 | Catalog #: | S4400-1000581 |

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|---|---|---|---|
| Standard ID#: | M13576 | Vendor: | Spex Certiprep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 08/04/2018 | Lot #: | 49-045CR |
| Expiration Date (if any): | 07/30/2019 | Catalog #: | XCTWI-5-500 |

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|---|---|---|---|
| Standard ID#: | M13569 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ni 1000 mg/L |
| Date Received: | 07/27/2018 | Lot #: | 166665-86 |
| Expiration Date (if any): | 01/2020 | Catalog #: | s4400-1000361 |

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|---|---|---|---|
| Standard ID#: | M13570 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Cd 1000 mg/L |
| Date Received: | 07/27/2018 | Lot #: | 160499-32 |
| Expiration Date (if any): | 01/2020 | Catalog #: | s4400-100081 |

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|---|---|---|---|
| Standard ID#: | M13571 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Si 1000 mg/L |
| Date Received: | 07/27/2018 | Lot #: | 175213-28 |
| Expiration Date (if any): | 01/2020 | Catalog #: | s4400-1000504F |

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|---|---|---|---|
| Standard ID#: | M13572 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sn 1000 mg/L |
| Date Received: | 07/27/2018 | Lot #: | 144466-74 |
| Expiration Date (if any): | 01/2020 | Catalog #: | s4400-1000613 |

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|---|---|---|---|
| Standard ID#: | M13573 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ti 1000 mg/L |
| Date Received: | 07/27/2018 | Lot #: | 152616-55 |
| Expiration Date (if any): | 01/2020 | Catalog #: | s4400-1000623 |

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|---|---|---|---|
| Standard ID#: | M13574 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Hg 1000 mg/L |
| Date Received: | 07/27/2018 | Lot #: | 175191-22 |
| Expiration Date (if any): | 01/2020 | Catalog #: | s4400-1000331 |

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|---|---|---|---|
| Standard ID#: | M13575 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Co 1000 mg/L |
| Date Received: | 07/27/2018 | Lot #: | 161693-10 |
| Expiration Date (if any): | 01/2020 | Catalog #: | s4400-1000131 |

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|---|---|---|---|
| Standard Log #: | M13563 | Instrument: | ICP |
| Analyst: | LJF | Standard: | LOQ 3050 S Spiking Solution |
| Prep Date: | 07/19/2018 | Expiration Date: | 10/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| S | 240 | M13466 | 10000 | 1.2 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| Standard ID#: | M13557 | Vendor: | Alfa Aesar Specpure |
| Analyst: | MDS | Chemical: | 1% Nickel Nitrate Matrix Modifier |
| Date Received: | 07/17/2018 | Lot #: | 8137324 |
| Expiration Date (if any): | 12/31/2019 | Catalog #: | 39043 |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13558 | Standard: | B&Si ICV |
| Analyst: | MDS | Concentrations: | 1000 ug/L (B, Si) |
| Prep Date: | 07/17/2018 | Expiration Date: | 05/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13518 and **1.0 mL** Si (1000 mg/L) M13338 and brought up to volume using milli-Q $H_2O$. | | |

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|---|---|---|---|
| Standard Log #: | M13559 | Reagent: | Potassium Permanganate Solution |
| Analyst: | LJF | | |
| Prep Date: | 07/17/2018 | Expiration Date: | 01/17/2019 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium permanganate M13559 and brought up to volume. | | |

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|---|---|---|---|
| Standard Log #: | M13554 | Instrument: | ICP |
| Analyst: | LJF | Standard: | LOQ 3010 B&Si Spiking Solution |
| Prep Date: | 07/13/2018 | Expiration Date: | 05/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| B | 16 | M13390 | 1000 | 0.8 |
| Si | 200 | M13338 | 1000 | 10 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| Standard Log #: | M13555 | Instrument: | ICP |
| Analyst: | LJF | Standard: | LOQ 3010 S Spiking Solution |
| Prep Date: | 07/13/2018 | Expiration Date: | 10/2019 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| S | 200 | M13466 | 10000 | 1.0 |
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Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13553 | Standard: | Sb ICV/LCS Std. |
| Analyst: | MDS | Concentrations: | 10 µg/L (Sb) |
| Prep Date: | 07/12/2018 | Expiration Date: | 10/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.01 mL** of Antimony Stock Std. (1000 µg/mL Sb) M13459 and brought to volume with Milli-Q DI $H_2O$. ($1\%$ $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13547 | Standard: | LODW/LOQW Ag Spiking Sol'n |
| Analyst: | MDS | Concentrations: | 10 ug/L (Ag) |
| Prep Date: | 07/09/2018 | Expiration Date: | 10/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **0.1 mL** of Ag (1000mg/L) M13458 and brought to volume with Milli-Q $H_2O$ to make a 1000 ug/L Ag std. Into a 1 L volumetric flask, pipetted **10 mL** of Ag (*1000 ug/L*) std. and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$)<br>*Pipette **1 mL** spiking solution into 50 mL $H_2O$ for LOD (*0.2 ug/L*) and **2 mL** spiking solution for LOQ (*0.4 ug/L*) | | |

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|---|---|---|---|
| Standard Log #: | M13548 | Reagent: | NaCl Hydroxylamine Sulfate |
| Analyst: | LJF | | |
| Prep Date: | 07/10/2018 | Expiration Date: | 01/10/2019 |
| Prep: | Into a 500 mL volumetric flask, partially filled with milli-Q $H_2O$, dissolved **60 g** NaCl M13226 and **60 g** hydroxylamine sulfate M13468 and brought up to volume. | | |

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|---|---|---|---|
| | | Instrument: | GFAA |
| Standard Log #: | M13549 | Standard: | Calibration Std. |
| Analyst: | MDS | Concentrations: | 25 ug/L (As, Pb, Sb, Se, Tl)<br>3.75 ug/L (Ag) |
| Prep Date: | 07/10/2018 | Expiration Date: | 05/17/2019 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.25 mL** of GFAA Custom Stock Std. ((100 ug/mL As, Pb, Sb, Se, Tl) (15 ug/mL Ag)) M13497 and brought to volume with Milli-Q $H_2O$.<br>(1% $HNO_3$) | | |

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|---|---|---|---|
| Standard Log #: | M13534 | Standard: | GFAA Instrument Check |
| Analyst: | MDS | Final Concentration: | 10 µg/L As<br>6 µg/L Pb<br>12 µg/L Sb<br>20 µg/L Se<br>14 µg/L Tl<br>0.6 µg/L Ag |
| Prep Date: | 07/02/2018 | Expiration Date: | 09/16/2018 |

Into six, 100 mL volumetric flasks, add the following and bring up to volume with milli-Q $H_2O$.

| Element | Volume Pipetted (mL) | Standard Conc. (µg/mL) | Standard ID | New Conc. (µg/L) |
|---|---|---|---|---|
| As | 1 | 1000 | M13392 | 10,000 |
| Pb | 0.1 | 10,000 | M13169 | 10,000 |
| Tl | 1 | 1000 | M13124 | 10,000 |
| Se | 1 | 1000 | M13460 | 10,000 |
| Sb | 1 | 1000 | M13459 | 10,000 |
| Ag | 0.1 | 1000 | M13458 | 1000 |

Into a 1 L volumetric flask, add the following and bring up to volume with Milli-Q $H_20$. (1% $HNO_3$)

| Element | Volume Pipetted (mL) | Standard Conc. (µg/L) | New Conc. (µg/L) |
|---|---|---|---|
| As | 1.0 | 10,000 | 10 |
| Pb | 0.6 | 10,000 | 6 |
| Tl | 1.4 | 10,000 | 14 |
| Se | 2.0 | 10,000 | 20 |
| Sb | 1.2 | 10,000 | 12 |
| Ag | 0.6 | 1000 | 0.6 |

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|---|---|---|---|
| Standard ID#: | M13535 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 07/02/2018 | Lot #: | 48-179CR |
| Expiration Date (if any): | 06/30/2019 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| Standard ID#: | M13526 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | YTTRIUM 10,000 ug/mL |
| Date Received: | 06/22/2018 | Lot #: | 138448-54 |
| Expiration Date (if any): | 12/2019 | Catalog #: | 4400-10M671 |

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|---|---|---|---|
| Standard ID#: | M13527 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | POTASSIUM 10,000 |
| Date Received: | 06/22/2018 | Lot #: | 172053-32 |
| Expiration Date (if any): | 12/2019 | Catalog #: | 4400-104411 |

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|---|---|---|---|
| Standard ID#: | M13528 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Si 1000 ug/mL |
| Date Received: | 06/22/2018 | Lot #: | 142610-115 |
| Expiration Date (if any): | 12/2019 | Catalog #: | S4400-1000504F |

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|---|---|---|---|
| Standard ID#: | M13529 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Fe 10,000 ug/mL |
| Date Received: | 06/22/2018 | Lot #: | 156651-42 |
| Expiration Date (if any): | 12/2019 | Catalog #: | 4400-10M261 |

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|---|---|---|---|
| Standard ID#: | M13530 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | SULFUR 10,000ug/mL |
| Date Received: | 06/22/2018 | Lot #: | 129880-46 |
| Expiration Date (if any): | 12/2019 | Catalog #: | 4400-10M544 |

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|---|---|---|---|
| Standard ID#: | M13531 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | BORON 1000 ug/mL |
| Date Received: | 06/22/2018 | Lot #: | 158372-91 |
| Expiration Date (if any): | 12/2019 | Catalog #: | S4400-100074 |

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|---|---|---|---|
| Standard ID#: | M13532 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | CUSTOM ASSURANCE STANDARD |
| Date Received: | 06/22/2018 | Lot #: | 48-146CR |
| Expiration Date (if any): | 06/30/2019 | Catalog #: | XCTWI-1-500 |

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|---|---|---|---|
| Standard ID#: | M13520 | Vendor: | FRISCOLYT |
| Analyst: | NAH | Chemical: | Electrolyte Solution |
| Date Received: | 06/13/2018 | Lot #: | 1DO71H |
| Expiration Date (if any): | 12/03/2021 | Catalog #: | 51 340 053 |

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|---|---|---|---|
| | | Instrument: | ICP |
| Standard Log #: | M13521 | Standard: | As Pb ICV1 |
| Analyst: | MDS | Concentrations: | 5000 ug/L (As,Pb) |
| Prep Date: | 06/13/2018 | Expiration Date: | 10/20/2018 |
| Prep: | Into a 1 L volumetric flask, pipetted **0.5 mL** of As (10,000 mg/L) M13392 and **0.5 mL** Pb (10,000 mg/L) M13169 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$, 2% HCl) | | |

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|---|---|---|---|
| Standard ID#: | M13518 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 06/11/2018 | Lot #: | 48-060CR |
| Expiration Date (if any): | 06/30/2019 | Catalog #: | XCTWI-5-500 |

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|---|---|---|---|
| | | Instrument: | ICP 6500 |
| Standard Log #: | M13519 | Standard: | ICAL |
| Analyst: | NAH | Concentrations: | 0.25, 0.5, 1, 5, 10, 20, 50, 100, 1000, 10,000, 100k, 100,000, 500,000 and 1000k (ug/L) |
| Prep Date: | 06/11/2018 | Expiration Date: | 06/30/2019 |

Prep:

Using 1 L volumetric flasks, pipetted the following and brought up to volume using milli-Q $H_2O$.
(5% $HNO_3$, 5% HCl)
*1000 ug/L Std.* - **10 mL** of Custom Assurance Std. #23 ( 100 mg/L Al, As, B, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13518, **10 mL** of Custom Assurance Std. #3 (100 mg/L Ag, Be, Cd) M13506 and **1 mL** of Si (1000 mg/L) M13394 and 1 mL M13203 Ce
*0.25 ug/L Std.* - **0.25 mL** of the 1000 ug/L Std.
*0.5 ug/L Std.* - **0.5 mL** of the 1000 ug/L Std.
*1 ug/L Std.* - **1 mL** of the 1000 ug/L Std.
*5 ug/L Std.* - **5 mL** of the 1000 ug/L Std.
*10 ug/L Std.* - **10 mL** of the 1000 ug/L Std.
*20 ug/L Std.* - **20 mL** of the 1000 ug/L Std.
*50 ug/L Std.* - **50 mL** of the 1000 ug/L Std.
*100 ug/L Std.* - **1 mL** of Custom Assurance Std. (CAS) #23 and **1 mL** of CAS #3
*10,000 ug/L Std.* - **100 mL** CAS #23, **100 mL** CAS #3 and **1 mL** of K (10,000 mg/L) M13465.
*100k ug/L Std.* - **10 mL** of Cu (10,000 mg/L) M13166, **10 mL** of Mn (10,000 mg/L) M13167, **10 mL** of Cr (10,000 mg/L) M13165, **10 mL** Pb (10,000 mg/L) M13169, **10 mL** of Zn (10,000 mg/L) M13168 and **10 mL** of Na (10,000 mg/L) M13461.
*100,000 ug/L Std.* - **10 mL** of Mg (10,000 mg/L) M13319, **10 mL** of Fe (10,000 mg/L) M13463, **10 mL** of Ca (10,000 mg/L) M13467 and **10 mL** Al (10,000 mg/L) M13462.
*500,000 ug/L Std.* - **50 mL** of Mg (10,000 mg/L), **50 mL** of Fe (10,000 mg/L), **50 mL** of Ca (10,000 mg/L) and **50 mL** of Al (10,000 mg/L)
*1000k ug/L Std.* - **100 mL** of Mg (10,000 mg/L), **100 mL** of Fe (10,000 mg/L), **100 mL** of Ca (10,000 mg/L) and **100 mL** of Al (10,000 mg/L)

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| | | Instrument: | CETAC |
| Standard Log #: | M13510 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 06/01/2018 | Expiration Date: | 06/01/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.656 with **1** part $HNO_3$ AB.655 in a hood. | | |

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|---|---|---|---|
| Standard ID#: | M13511 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | SODIUM CHLORIDE |
| Date Received: | 06/04/2018 | Lot #: | 176877 |
| Expiration Date (if any): | | Catalog #: | S271-500 |

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|---|---|---|---|
| Standard ID#: | M13506 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 05/22/2018 | Lot #: | 48-042CR |
| Expiration Date (if any): | 05/30/2019 | Catalog #: | XCTWI-4-500 |

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|---|---|---|---|
| Standard ID#: | M13507 | Vendor: | Spex CertiPrep |
| Analyst: | NAH | Chemical: | Custom Assurance Standard |
| Date Received: | 05/22/2018 | Lot #: | 48-041CR |
| Expiration Date (if any): | 05/30/2019 | Catalog #: | XSPIKE-1-250 |

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|---|---|---|---|
| Standard ID#: | M13508 | Vendor: | RESTEK |
| Analyst: | NAH | Chemical: | Diatomaceous earth (Celite 566) |
| Date Received: | 05/22/2018 | Lot #: | 811030-BG |
| Expiration Date (if any): | N/A | Catalog #: | 26033 |

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|---|---|---|---|
| Standard ID#: | M13495 | Vendor: | LabChem |
| Analyst: | LJF | Chemical: | STANNOUS CHLORIDE |
| Date Received: | 05/15/2018 | Lot #: | H052-17 |
| Expiration Date (if any): | | Catalog #: | LC251701 |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13485 | Standard: | Na & K ICAL |
| Analyst: | MDS | Concentrations: | 0.5, 1, 5, 10, 50, 100, and 200 mg/L (Na,K) |
| Prep Date: | 05/07/2018 | Expiration Date: | 05/2019 |
| Prep: | Into seven, 200 mL volumetric flasks, pipetted the following from Na (1000 µg/mL) M13339 and K (1000 µg/mL) M13340 and brought up to volume using milli-Q $H_2O$. (2% $HNO_3$)<br>*0.5 mg/L std.* - **0.1 mL** of each<br>*1.0 mg/L std.* - **0.2 mL** of each<br>*5.0 mg/L std.* - **1.0 mL** of each<br>*10 mg/L std.* - **2.0 mL** of each<br>*50 mg/L std.* - **10 mL** of each<br>*100 mg/L std.* -**20 mL** of each, also used for Continuing Calibration Verification<br>*200 mg/L std.* - **40 mL** of each | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13486 | Standard: | NaK ICV |
| Analyst: | MDS | Concentrations: | 100 mg/L (Na, K) |
| Prep Date: | 05/07/2018 | Expiration Date: | 08/2019 |
| Prep: | Into a 250 mL volumetric flask, pipetted **2.5 mL** of K (10,000 mg/L) M13400 and Na (10,000 mg/L) M13402 and brought up to volume using Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13487 | Standard: | Na,K ICVLL |
| Analyst: | MDS | Concentrations: | 3 mg/L (Na,K) |
| Prep Date: | 05/07/2018 | Expiration Date: | 08/2019 |
| Prep: | Into a 500 mL volumetric flask, pipetted **0.15 mL** of Na (10,000 µg/mL) M13402 and **0.15 mL** K (10,000 µg/mL) M13400 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13488 | Standard: | Na,K MRL |
| Analyst: | MDS | Concentrations: | 1 mg/L (Na,K) |
| Prep Date: | 05/07/2018 | Expiration Date: | 05/2019 |
| Prep: | Into a 500 mL volumetric flask, pipetted **0.5 mL** of Na (1000 µg/mL) M13339 and **0.5 mL** K (1000 µg/mL) M13340 and brought to volume with Milli-Q $H_2O$. (2% $HNO_3$) | | |

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|---|---|---|---|
| Standard ID#: | M13484 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | Y 10,000 mg/L |
| Date Received: | 05/03/2018 | Lot #: | 1805105 |
| Expiration Date (if any): | 10/31/2019 | Catalog #: | HP10M67-1 |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13471 | Standard: | B&Si ICAL |
| Analyst: | MDS | Concentrations: | 50, 200, 1000, 2000 and 10,000 ug/L (B, Si) |
| Prep Date: | 04/26/2018 | Expiration Date: | 07/2019 |
| Prep: | Into five, 1 L volumetric flasks, pipetted the following from stock standards B (1000 mg/L) M13390 and Si (1000 mg/L) M13394 and brought up to volume using milli-Q $H_2O$.<br>*50 ug/L std.* - **0.05 mL** of each<br>*200 ug/L std.* - **0.2 mL** of each<br>*1000 ug/L std.* -**1.0 mL** of each, also used for Continuing Calibration Verification<br>*2000 ug/L std.* - **2.0 mL** of each<br>*10,000 ug/L std.* -**10 mL** of each | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13472 | Standard: | B&Si ICV |
| Analyst: | MDS | Concentrations: | 1000 ug/L (B, Si) |
| Prep Date: | 04/26/2018 | Expiration Date: | 07/02/2018 |
| Prep: | Into a 1 L volumetric flask, pipetted **10 mL** of Custom Assurance Std. #23 (100 mg/L Al, As, **B**, Ba, Ca, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Ti, Tl, V, Zn) M13364 and **1.0 mL** Si (1000 mg/L) M13085 and brought up to volume using milli-Q $H_2O$. | | |

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|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13473 | Standard: | B & Si ICSAB |
| Analyst: | MDS | Concentrations: | 500,000 µg/L (Al, Ca, Fe, Mg)<br>500 µg/L (B,Si) |
| Prep Date: | 04/26/2018 | Expiration Date: | 10/30/2018 |
| Prep: | Into a 100 mL volumetric flask, pipetted **10 mL** of Interferents A custom stock (5000 mg/L Al, Ca, Mg and 2000 mg/L Fe) M13305, **0.05 mL** of B (1000 µg/mL) M13390, **0.05 mL** of Si (1000 µg/mL) M13394 and **3 mL** of Fe (10,000 mg/L) M13321 and brought up to volume using Milli-Q $H_2O$. | | |

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|---|---|---|---|
| Standard ID#: | M13467 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ca 10000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 147497-47 |
| Expiration Date (if any): | 10/2019 | Catalog #: | 4400-10M91 |

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|---|---|---|---|
| Standard ID#: | M13468 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | HYDROXYLAMINE SULFATE |
| Date Received: | 04/24/2018 | Lot #: | 174236 |
| Expiration Date (if any): | | Catalog #: | H331-500 |

| | | | |
|---|---|---|---|
| | | Instrument: | CETAC |
| Standard Log #: | M13469 | Reagent: | Hg Aqua Regia |
| Analyst: | LJF | | |
| Prep Date: | 04/24/2018 | Expiration Date: | 04/24/2018 |
| Prep: | Carefully mixed **3** parts HCl AB.656 with **1** part $HNO_3$ AB.655 in a hood. | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13462 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Al 10000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 158058-23 |
| Expiration Date (if any): | 10/2019 | Catalog #: | 4400-10M11 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13463 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Fe 10000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 156651-18 |
| Expiration Date (if any): | 10/2019 | Catalog #: | 4400-10M261 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13464 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Mg 10000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 148250-67 |
| Expiration Date (if any): | 10/2019 | Catalog #: | 4400-10M311 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13465 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 172053-2 |
| Expiration Date (if any): | 10/2019 | Catalog #: | 4400-10M411 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13466 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | S 10000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 129880-37 |
| Expiration Date (if any): | 10/2019 | Catalog #: | 4400-10M544 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13457 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Barium 1000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 158364-3 |
| Expiration Date (if any): | 10/2019 | Catalog #: | S4400-100041 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13458 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Ag 1000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 162712-9 |
| Expiration Date (if any): | 10/2019 | Catalog #: | S4400-1000511 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13459 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sb 1000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 153992-1 |
| Expiration Date (if any): | 10/2019 | Catalog #: | S4400-100023 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13460 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Se 1000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 154366-16 |
| Expiration Date (if any): | 10/2019 | Catalog #: | S4400-1000491 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13461 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Na 10000 mg/L |
| Date Received: | 04/20/2018 | Lot #: | 107139-108 |
| Expiration Date (if any): | 10/2019 | Catalog #: | 4400-10M521 |

| | | | |
|---|---|---|---|
| Standard Log #: | M13445 | Reagent: | Potassium Persulfate Solution |
| Analyst: | LJF | | |
| Prep Date: | 04/19/2018 | Expiration Date: | 10/19/2018 |
| Prep: | Into a 1 L volumetric flask, partially filled with milli-Q $H_2O$, dissolved **50 g** potassium persulfate M12652 and brought up to volume. | | |

| | | | |
|---|---|---|---|
| | | Instrument: | Hach 2100 turbidity meter |
| Standard Log #: | M13446 | Standard: | Turbity ICAL |
| Analyst: | NAH | Concentrations: | 20, 100, 200 ntu |
| Prep Date: | 04/19/2018 | Expiration Date: | 12/2019 |
| Prep: | Using the hach vials , pipet the following:<br>*20 ntu Std.* = **1 ml** M13436 and 9 mls DI H20.<br>*100 ntu Std.* = **5 mls** M13436 and 5 mls DI H20.<br>*200 ntu Std.* = ***10 mls*** M13436 *and* 0 mls DI H20. | | |

**LPMT1-04**
**Metals Reagents and Standards**
**Prep Logbook**
*Created: 12/19/17*

NOTEBOOK VIEW: LTN_LPMT1_04_Default, NOTEBOOK: LPMT1_04, PAGE: 35
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Author: nhenn on: 4/19/2018 11:15:48 AM
Page is not Witnessed
Project: Unassigned
Page Title: 041118

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| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13438 | Standard: | Sulfur ICAL |
| Analyst: | MDS | Concentrations: | 1000<br>10,000<br>100,000<br>1000K<br>µg/L (S) |
| Prep Date: | 04/11/2018 | Expiration Date: | 07/2019 |
| Prep: | Into four, 100 mL volumetric flasks, pipetted the following from stock standard S (10,000 µg/mL) M13391 and brought up to volume using milli-Q $H_2O$.<br>*1000 ug/L std.* - **0.01 mL**<br>*10,000 ug/L std.* - **0.1 mL**<br>*100,000 ug/L std.* -**1.0 mL**, also used as the CCV<br>*1000K ug/L std.* - **10 mL** | | |

| | | | |
|---|---|---|---|
| | | Instrument: | ICP 6000 |
| Standard Log #: | M13439 | Standard: | Sulfur ICV |
| Analyst: | MDS | Concentrations: | 100,000 µg/L (S) |
| Prep Date: | 04/11/2018 | Expiration Date: | 01/19/2019 |
| Prep: | Into a 100 mL volumetric flask, pipetted **1.0 mL** of S (10,000 µg/mL) M13280 and brought up to volume using Milli-Q $H_2O$. | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13437 | Instrument: | ICP |
| Analyst: | NAH | Standard: | LOQ 3050 B&Si Spiking Solution |
| Prep Date: | 04/10/2018 | Expiration Date: | 07/19 |

Prep:

Into a 1 L volumetric flask, pipetted the following and brought up to volume with Milli-Q $H_2O$. (5% $HNO_3$)

| Analyte | Final MDL Conc. (ug/L) | Std. ID # | Std. Conc. (mg/L) | Volume (mL) pipetted |
|---|---|---|---|---|
| B | 52 | M13390 | 1000 | 2.6 |
| Si | 192 | M13394 | 1000 | 9.6 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Of this base standard, pipetted **1 mL** into a 50 mL digestion tube for a digested working standard.

Content below was appended to locked page by mszymanski on 4/19/2018 12:20:57 PM

| | | | |
|---|---|---|---|
| Standard ID#: | M13436a | Vendor: | HACH |
| Analyst: | NAH | Chemical: | StablCal 200 NTU |
| Date Received: | 04/10/2018 | Lot #: | A7354 |
| Expiration Date (if any): | 12/2019 | Catalog #: | 2660449 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13400 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | K 10,000 ug/mL |
| Date Received: | 02/15/2018 | Lot #: | 106958-116 |
| Expiration Date (if any): | 08/2019 | Catalog #: | 4400-10M411 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13401 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Y 10,000 ug/mL |
| Date Received: | 02/15/2018 | Lot #: | 139448-54 |
| Expiration Date (if any): | 08/2019 | Catalog #: | 4400-10M671 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13402 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Na 10,000 ug/mL |
| Date Received: | 02/15/2018 | Lot #: | 107139-126 |
| Expiration Date (if any): | 08/2019 | Catalog #: | 4400-10M521 |

| | | | |
|---|---|---|---|
| Standard Log #: | M13388 | Reagent: | SPLP EXTRACTION FLUID EAST # |
| Analyst: | BMM | pH: | 4.20 ± 0.05 |
| Prep Date: | 01/23/2018 | Expiration Date: | 01/23/2019 |
| Prep: | Into a 20 L carboy filled with DI $H_2O$, adjust pH to 4.20 ± 0.05 using 60/40 SPLP extraction fluid acid mixture M12457 . | | |

| | | | |
|---|---|---|---|
| Standard Log #: | M13389 | Reagent: | SPLP EXTRACTION FLUID WEST # |
| Analyst: | BMM | pH: | 5.00 ± 0.05 |
| Prep Date: | 01/23/2018 | Expiration Date: | 01/23/2019 |
| Prep: | Into a 20 L carboy filled with DI $H_2O$, adjust pH to 5.00 ± 0.05 using 60/40 SPLP extraction fluid acid mixture M12457 . | | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13390 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Boron 1000 ug/mL |
| Date Received: | 01/23/2018 | Lot #: | 158372-29 |
| Expiration Date (if any): | 07/2019 | Catalog #: | S4400-100074 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13391 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Sulfur 10000 ug/mL |
| Date Received: | 01/23/2018 | Lot #: | 129880-28 |
| Expiration Date (if any): | 07/2019 | Catalog #: | 4400-10M544 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13392 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Arsenic 1000 ug/mL |
| Date Received: | 01/23/2018 | Lot #: | 143356-61 |
| Expiration Date (if any): | 07/2019 | Catalog #: | S4400-100031 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13393 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Molybdenum 1000 ug/mL |
| Date Received: | 01/23/2018 | Lot #: | 134169R-102 |
| Expiration Date (if any): | 07/2019 | Catalog #: | S4400-1000343 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13394 | Vendor: | CPI |
| Analyst: | NAH | Chemical: | Silicon 1000 ug/mL |
| Date Received: | 01/23/2018 | Lot #: | 142610-58 |
| Expiration Date (if any): | 07/2019 | Catalog #: | S4400-1000504F |

| | | | |
|---|---|---|---|
| Standard ID#: | M13350 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | Yttrium 10000 mg/L |
| Date Received: | 12/12/2017 | Lot #: | 1729606 |
| Expiration Date (if any): | 06//2019 | Catalog #: | 10M67-1 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13226 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | SODIUM CHLORIDE |
| Date Received: | 07/21/2017 | Lot #: | 170229 |
| Expiration Date (if any): | | Catalog #: | S271-500 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13199 | Vendor: | National Institute of Standards and Te |
| Analyst: | NAH | Chemical: | SRM Montana I soil |
| Date Received: | 05/15/2017 | Lot #: | 2710a |
| Expiration Date (if any): | | Catalog #: | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13200 | Vendor: | National Institute of Standards and Te |
| Analyst: | NAH | Chemical: | SRM Montana II soil |
| Date Received: | 05/15/2017 | Lot #: | 2711a |
| Expiration Date (if any): | | Catalog #: | |

| | | | |
|---|---|---|---|
| Standard ID#: | M13186 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | HYDROXYLAMINE SULFATE |
| Date Received: | 05/22/2017 | Lot #: | 166161 |
| Expiration Date (if any): | | Catalog #: | H331-500 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13187 | Vendor: | Environmental Express |
| Analyst: | NAH | Chemical: | Yttrium 10,000 ug/mL |
| Date Received: | 05/22/2017 | Lot #: | 1705408 |
| Expiration Date (if any): | 11/16/2018 | Catalog #: | HP10M67-1 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13080 | Vendor: | FISHER |
| Analyst: | LJF | Chemical: | POTASSIUM PERMANGANATE |
| Date Received: | 01/30/2017 | Lot #: | 164080 |
| Expiration Date (if any): | | Catalog #: | P279-212 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13059 | Vendor: | ACROS ORGANICS |
| Analyst: | LJF | Chemical: | POTASSIUM PERSULFATE |
| Date Received: | 12/19/2016 | Lot #: | A0375670 |
| Expiration Date (if any): | | Catalog #: | 424185000 |

| | | | |
|---|---|---|---|
| Standard ID#: | M13024 | Vendor: | METTLER TOLEDO |
| Analyst: | LJF | Chemical: | FRISCOLYT |
| Date Received: | 11/01/2016 | Lot #: | 1B167D |
| Expiration Date (if any): | | Catalog #: | 51340053 |

# INORGANIC
# CLP FORMS
# DOCUMENTS

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 86.0 | Lab Sample ID: | 356219 |
| Analytical Method: | SW 846 Ch. 7 | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166589 | Analysis Date/Time | 11/14/2019 09:00 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | mg/kg |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 57-12-5 | Cyanide, Reactive | 20 | U | 20 | 20 | 20 | 20 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 86.0 | Lab Sample ID: | 356219 |
| Analytical Method: | EPA 9045D | Date Received: | 11/11/2019 |
| Dilution Factor: | 1 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166453 | Analysis Date/Time | 11/11/2019 13:30 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | S.U. |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| PH | pH | 7.37 | | | | | |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 86.0 | Lab Sample ID: | 356219 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 86.0 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 86.0 | Lab Sample ID: | 356219 |
| Analytical Method: | ASTM D4978 | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166583 | Analysis Date/Time | 11/13/2019 9:00 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | mg/kg |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| 18496-25-8 | Sulfide Reactive | 100 | U | 100 | 100 | 100 | 100 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-001 (27-28)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 80.0 | Lab Sample ID: | 356176 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 80.0 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-001 (31-32)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 83.7 | Lab Sample ID: | 356177 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-001 (38-39)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 81.3 | Lab Sample ID: | 356178 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 81.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-002 (26-27)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 93.2 | Lab Sample ID: | 356170 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 93.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-002 (32-33)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 85.6 | Lab Sample ID: | 356171 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 85.6 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-002 (40-41)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 82.1 | Lab Sample ID: | 356172 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 82.1 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-003 (29-30)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 79.0 | Lab Sample ID: | 356173 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 79.0 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-003 (35-36)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.3 | Lab Sample ID: | 356174 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-003 (39-40)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 82.3 | Lab Sample ID: | 356175 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 82.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
delivering more than data from your environmental analyses

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-004 (28-29)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.0 | Lab Sample ID: | 356194 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.0 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-004 (30-31)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 85.7 | Lab Sample ID: | 356195 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 85.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-004 (32-33)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 83.8 | Lab Sample ID: | 356196 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.8 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-005 (24-25)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 81.2 | Lab Sample ID: | 356187 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 81.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-005 (27-28)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 82.6 | Lab Sample ID: | 356188 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 82.6 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-005 (31-32)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.2 | Lab Sample ID: | 356189 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-006 (20-21)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 85.7 | Lab Sample ID: | 356183 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 85.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-006 (27-28)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 83.4 | Lab Sample ID: | 356184 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.4 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-006(30-31)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 83.8 | Lab Sample ID: | 356185 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.8 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-007 (27-28)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 82.7 | Lab Sample ID: | 356191 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 82.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-007 (29-30)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 82.2 | Lab Sample ID: | 356192 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 82.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-007 (31-32)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 80.7 | Lab Sample ID: | 356193 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 80.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-008 (26-27)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 81.5 | Lab Sample ID: | 356197 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 81.5 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-008 (27-28)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 83.7 | Lab Sample ID: | 356198 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-008 (29-30)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 83.4 | Lab Sample ID: | 356199 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.4 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-009 (24-25)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 81.6 | Lab Sample ID: | 356179 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 81.6 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-009 (28-29)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.2 | Lab Sample ID: | 356180 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-009 (31-32)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 82.3 | Lab Sample ID: | 356181 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 82.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-010 (23-24)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.9 | Lab Sample ID: | 356200 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.9 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-010 (28-29)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 86.3 | Lab Sample ID: | 356201 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 86.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-010 (32-33)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.2 | Lab Sample ID: | 356202 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-011 (22-23)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 85.3 | Lab Sample ID: | 356204 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 85.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-011 (27-28)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 89.8 | Lab Sample ID: | 356205 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 89.8 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DPT-011 (31-32)**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.7 | Lab Sample ID: | 356206 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.7 | | 0.1 | 0.1 | 0.1 | 0.1 |

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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DUP-001**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 79.8 | Lab Sample ID: | 356182 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 79.8 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
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***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DUP-002**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 83.2 | Lab Sample ID: | 356186 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166542 | Analysis Date/Time | 11/21/2019 18:37 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 83.2 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
delivering more than data from your environmental analyses

1

***INORGANIC ANALYSIS DATA SHEET***

Sample Description

**DUP-003**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix (soil/water): | SOIL | SDG No.: | 149511 |
| % Solids: | 84.3 | Lab Sample ID: | 356203 |
| Analytical Method: | EPA 8000C | Date Received: | 11/11/2019 |
| Dilution Factor: | 1.00 | TCLP/SPLP Extraction Date/time: | |
| Analytical Run #: | 166543 | Analysis Date/Time | 11/21/2019 18:48 |
| Analytical Prep Batch #: | | Prep. Date/Time: | |
| ICAL Calibration #: | | Concentration Units: | % |

| CAS # | Analyte | Concentration | Qualifiers | DL | LOD | LOQ | RL |
|---|---|---|---|---|---|---|---|
| SOLID | Solids, Percent | 84.3 | | 0.1 | 0.1 | 0.1 | 0.1 |

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

**MB**

**3-3**

***METHOD BLANKS***

Lab Name: CT Laboratories Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166589 Lab Sample ID: 358316

Analytical Prep Batch # Preparation Date/Time:

ICAL Calibration #: Concentration Units: mg/kg

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Cyanide, Reactive | 11/14/2019 09:00 | 0.00 | U | 20 | 8 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was
less.

CT LABORATORIES
delivering more than data from your environmental analyses

Sample No

**MB**

**3-3**

***METHOD BLANKS***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

SDG No.: 149511

Analytical Run #: 166583  Lab Sample ID: 358335

Analytical Prep Batch #:  Preparation Date/Time:

ICAL Calibration #:  Concentration Units: mg/kg

Analysis Type: Initial Analysis

| Analyte | Analysis Date/Time | Measured Concentration | C*** | Detection Limit** | Control Limit |
|---|---|---|---|---|---|
| Sulfide Reactive | 11/13/2019 9:00 | 0.00 | | | 100 |

** Detection Limit only reported if value was less than the control limit.
***A "U" indicates the analyte was not detected in the method blank at the detection limit or the Control Limit whichever was less.

CT LABORATORIES
delivering more than data from your environmental analyses

5A

***SPIKE SAMPLE RECOVERY***

Sample Description: **46ADPT-TCLP**

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | SOLID | SDG No.: | 149511 |
| % Solids for Sample: | 86.0 | Concentration Units: | mg/kg |
| Sample No | 358318 | Parent Sample No.: | 356219 |
| Analytical Prep Batch # | | Analytical Preparation Date/Time: | |
| Analytical Run #: | 166589 | ICAL Calibration #: | |

| Analysis Type | *Initial Analysis* | Analysis Date: ----- | 11/14/2019 | Analysis Time: -------- | 09:00 |
|---|---|---|---|---|---|

| Analyte | Control Limit (%R) | Spike Result | C (Spike) | Parent Result | C (Parent) | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Reactive | 70-130 | 20.0 | J | | | 20.0 | 100 | | |

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

5A

Sample Description

**46ADPT-TCLP**

***SPIKE SAMPLE RECOVERY***

| | | | |
|---|---|---|---|
| Lab Name: | CT Laboratories | Contract: | HDR, INC-LONGHORN |
| Matrix: | SOLID | SDG No.: | 149511 |
| % Solids for Sample: | 86.0 | Concentration Units: | mg/kg |
| Sample No | 358337 | Parent Sample No.: | 356219 |
| Analytical Prep Batch # | | Analytical Preparation Date/Time: | |
| Analytical Run #: | 166583 | ICAL Calibration #: | |

| Analysis Type | *Initial Analysis* | Analysis Date: ----- | 11/13/2019 | Analysis Time: -------- | 9:00 |
|---|---|---|---|---|---|

| Analyte | Control Limit (%R) | Spike Result | C (Spike) | Parent Result | C (Parent) | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide Reactive | 70-130 | 100 | J | BDL | U | 100 | 100 | | |

BDL = analyte concentration was below detection limit

CT LABORATORIES
delivering more than data from your environmental analyses

6

***DUPLICATES***

Sample Description

**46ADPT-TCLP**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: SOLID
SDG No.: 149511
% Solid for Sample: 86.0
Concentration Units: mg/kg
Analytical Prep Batch #: 1
Analytical Preparation Date/Time:
Analytical Run #: 166589
ICAL Calibration #:
Sample #: 358314
Parent Sample #: 356219

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Original Parent Conc. (S) | C | Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Reactive | 11/14/2019 | 09:00 | 20 | 20 | U | 20 | U | 0 | | |

CT LABORATORIES
delivering more than data from your environmental analyses

6

***DUPLICATES***

Sample Description

**46ADPT-TCLP**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: SOLID
SDG No.: 149511
% Solid for Sample: 86.0
Concentration Units: mg/kg
Analytical Prep Batch #: 1
Analytical Preparation Date/Time:
Analytical Run #: 166583
ICAL Calibration #:
Sample #: 358336
Parent Sample #: 356219

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Original Parent Conc. (S) | C | Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide Reactive | 11/13/2019 | 9:00 | 20 | 100 | U | 100 | U | 0 | | |

CT LABORATORIES
delivering more than data from your environmental analyses

6

***DUPLICATES***

Sample Description

**DPT-009 (31-32)**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: SOLID
SDG No.: 149511
% Solid for Sample: 82.3
Concentration Units: %
Analytical Prep Batch #: 1
Analytical Preparation Date/Time: 0
Analytical Run #: 166542
ICAL Calibration #:
Sample #: 361819
Parent Sample #: 356181

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Original Parent Conc. (S) | C | Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Solids, Percent | 11/21/2019 | 18:37 | 8 | 82.3 | | 82.9 | | 1 | | GRA |

CT LABORATORIES
delivering more than data from your environmental analyses

6

***DUPLICATES***

Sample Description

**DPT-007 (27-28)**

Lab Name: CT Laboratories
Contract: HDR, INC-LONGHORN
Matrix: SOLID
SDG No.: 149511
% Solid for Sample: 82.7
Concentration Units: %
Analytical Prep Batch #: 1
Analytical Preparation Date/Time: 0
Analytical Run #: 166543
ICAL Calibration #:
Sample #: 361820
Parent Sample #: 356191

Analysis Type *Initial Analysis*

| Analyte | Analysis Date/Tim | | RPD Limit | Original Parent Conc. (S) | C | Duplicate Conc. (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Solids, Percent | 11/21/2019 | 18:48 | 8 | 82.7 | | 84.5 | | 2 | | GRA |

CT LABORATORIES
delivering more than data from your environmental analyses

Sample Description

**6A**

***MATRIX SPIKE DUPLICATES***

Lab Name: CT Laboratories Contract:

Matrix: SDG No.:

% Solid for Sample: Concentration Units:

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No: LCS

***LABORATORY CONTROL SAMPLE - SOLID***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

LCS Source: SPEX and Ultra  SDG No.: 149511

Concentration Units: mg/kg

Analytical Run #: 166589  Sample No.:#: 358315

Analytical Prep Batch #:  Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | C | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|
| Cyanide, Reactive | 11/14/2019 09:00 | 70-130 | 20.0 | J | 20.0 | 100 | | |

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No: LCS

***LABORATORY CONTROL SAMPLE - SOLID***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

LCS Source: SPEX and Ultra  SDG No.: 149511

Concentration Units: Deg. F

Analytical Run #: 166449  Sample No.:#: 358333

Analytical Prep Batch #:  Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | C | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|
| Flashpoint | 11/11/2019 12:45 | 90-110 | 81.2 | | 79.8 | 102 | | |

CT LABORATORIES
delivering more than data from your environmental analyses

7-2

Sample No: LCS

***LABORATORY CONTROL SAMPLE - SOLID***

Lab Name: CT Laboratories  Contract: HDR, INC-LONGHORN

LCS Source: SPEX and Ultra  SDG No.: 149511

Concentration Units: mg/kg

Analytical Run #: 166583  Sample No.:#: 358334

Analytical Prep Batch #:  Preparation Date/Time:

ICAL Calibration #:

Analysis Type ---------- Initial Analysis

| Analyte | Analysis Date/Time | Control Limit (%R) | Spike Result | C | Spike Amount | %R | Q | M |
|---|---|---|---|---|---|---|---|---|
| Sulfide Reactive | 11/13/2019 9:00 | 70-130 | 100 | J | 100 | 100 | | |

# INORGANICS
# RAW DATA
# DOCUMENTS

FORM #:FWC020,21-02
Rev. #:3.1
Effective Date:08/23/19

# pH - Mettler Toledo Seven Easy

| | Date: | 11/11/2019 | Analyst: | SRW | Lims #: | 166453 | Slope (%) | 96 |
|---|---|---|---|---|---|---|---|---|

| GRP | Sample ID# | Matrix | Temp (°C)* | Result | |
|---|---|---|---|---|---|
| 1 | BUFFER 7 | | 19.5 | 7.02 | |
| 2 | 355257 | WW | 13.8 | 7.40 | |
| 3 | 356547 | WW | 15.7 | 7.70 | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | 355256 | WW | 13.3 | 7.94 | |
| dup 11 | 355256 | WW | 13.3 | 7.95 | |
| 12 | BUFFER 7 | | 19.4 | 7.03 | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | 356219 | S | 20.7 | 7.37 | |
| 23 | 356625 | S | 20.8 | 6.50 | |
| dup 23 | 356625 | S | 20.8 | 6.49 | |
| 24 | | | | | |
| 25 | 355254 | DW | 10.1 | 6.30 | |
| dup 25 | 355254 | DW | 10.2 | 6.31 | |
| 26 | 356623 | GW | 15.8 | 8.67 | |
| dup 26 | 356623 | GW | 15.9 | 8.68 | |

To datacapture: Save CSV file under the TSS datacapture folder.

*Temperature of samples should be room temperature around 25°C

Buffer Standard IDs:

pH 4: W45311 pH 7: W46410 pH 10: W46764

pH 4

FORM #: FWC34-02
Rev. #: 1.2
Effective Date: 11/21/2017

# Flashpoint Bench Sheet

METHOD: EPA 1010A

| Date/Time: | Run #: | Analyst: |
|---|---|---|
| 11/11/19 12:45 | 166449 | CLB |

| Barometric Pressure (inches) | *Find barometric pressure on WCT29 |
|---|---|
| 29.37 | |

| | Sample # | Date Sampled | Matrix | Flashpoint (°F) | Final Result (°F) | Comments: |
|---|---|---|---|---|---|---|
| 1 | LCSS | N/A | QC | 80.6 | 81.4 | p-Xylene W47303 |
| 2 | 351621 | 10/31/2019 | S | 122 | 122.8 | |
| 3 | DUP 351621 | 10/31/2019 | S | 122 | 122.8 | |
| 4 | 356219 | 11/07/2019 | S | >140 | #VALUE! | |
| 5 | DUP 356219 | 11/07/2019 | S | >140 | #VALUE! | |
| 6 | 356625 | 11/07/2019 | S | >140 | #VALUE! | |
| 7 | DUP 356625 | 11/07/2019 | S | >140 | #VALUE! | |
| 8 | LCSW | N/A | QC | 80.4 | 81.2 | |
| 9 | 356623 | 11/07/2019 | GW | >140 | #VALUE! | |
| 10 | DUP 356623 | 11/07/2019 | GW | >140 | #VALUE! | |
| 11 | | | | | 0.8 | |
| 12 | | | | | 0.8 | |
| 13 | | | | | 0.8 | |
| 14 | | | | | 0.8 | |
| 15 | | | | | 0.8 | |
| 16 | | | | | 0.8 | |
| 17 | | | | | 0.8 | |
| 18 | | | | | 0.8 | |
| 19 | | | | | 0.8 | |
| 20 | | | | | 0.8 | |

Calculation: Final Result= Observed FP + 0.06{ 760-(Barometric Pressure x 25.4 mm Hg)}

FORM #: FWC001-02
Rev. #: 2.0
Effective Date:03/19/19

# Reactive Cyanide Screening

| | Date: | 11/14/2019 | Analyst: | CLB | Lims #: | 166589 | | |
|---|---|---|---|---|---|---|---|---|
| | Sample ID | Matrix | Sample Amount (g or mL) | Spike Volume | Result (POS or NEG) | | Reported Result | Comments |
| 1 | LCSS | QC | 5 g | 0.1000 | POS | | 20 | |
| 2 | MBS | QC | 5 g | | NEG | | 0 | |
| 3 | 356219 | S | 5 g | | NEG | | 0 | |
| 4 | DUP 356219 | S | 5 g | | NEG | | 0 | |
| 5 | MS 356219 | S | 5 g | 0.1000 | POS | | 20 | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

| Reagents | W# | Exp Date |
|---|---|---|
| Cyanide Stock | 47478 | 12/30/2019 |
| 1 N NaOH | | |
| 0.5 N H2SO4 | 46511 | 05/20/2020 |
| 6 N H2SO4 | | |

Waters
POS = 10

Solids
POS = 20

To datacapture: Save CSV file under the TSS datacapture folder.

FORM #: FWC028-02
Rev. #: 2.0
Effective Date:03/19/19

# Reactive Sulfide Screening

| | Date: | 11/13/2019 | Analyst: | CLB | Lims #: | 166583 | | |
|---|---|---|---|---|---|---|---|---|
| | Sample ID | Matrix | Sample Amount (g or mL) | Spike Volume | Result (POS or NEG) | | Reported Result | Comments |
| 1 | LCSS | QC | 0.5 | 0.0500 | POS | | 100 | |
| 2 | MBS | QC | 0.5 | | NEG | | 0 | |
| 3 | 356219 | S | 0.5 | | NEG | | 0 | |
| 4 | DUP 356219 | S | 0.5 | | NEG | | 0 | |
| 5 | MS 356219 | S | 0.5 | 0.0500 | POS | | 100 | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |

| Reagents | W# | Exp Date |
|---|---|---|
| Sulfide Stock | 47795 | 01/13/20 |
| 50% HCl | 44194 | 05/24/19 |

Waters
POS = 2

Solids
POS = 100

To datacapture: Save CSV file under the TSS datacapture folder.



R. Sulfide

FORM #: FWC26-06
Rev. #: 1.0
Effective Date: 06/03/2014

# TOTAL SOLIDS (PERCENT)

LIMS #: 166542

| Start Date: | 11/21/2019 | Start Time: | 18:37 | | Analyst: | BMM |
|---|---|---|---|---|---|---|
| | Sample ID# | Dish# | Tared Weight g *(D)* | Wet Weight g *(E)* | Dry Weight g *(F)* | RESULTS % TOTAL SOLIDS |
| 1) | 356170 | T931 | 2.47 | 11.92 | 11.28 | 93.2% |
| 2) | 356171 | T923 | 2.46 | 14.04 | 12.37 | 85.6% |
| 3) | 356172 | T498 | 2.39 | 13.24 | 11.30 | 82.1% |
| 4) | 356173 | T492 | 2.39 | 13.66 | 11.29 | 79.0% |
| 5) | 356174 | T500 | 2.42 | 14.02 | 12.20 | 84.3% |
| 6) | 356175 | T225 | 2.43 | 12.78 | 10.95 | 82.3% |
| 7) | 356176 | T224 | 2.43 | 8.13 | 6.99 | 80.0% |
| 8) | 356177 | T223 | 2.47 | 7.88 | 7.00 | 83.7% |
| 9) | 356178 | T222 | 2.43 | 8.32 | 7.22 | 81.3% |
| 10) | 356179 | T221 | 2.46 | 7.83 | 6.84 | 81.6% |
| 11) | 356180 | T493 | 2.37 | 7.94 | 7.06 | 84.2% |
| 12) | 356182 | T497 | 2.38 | 7.63 | 6.57 | 79.8% |
| 13) | 356183 | T476 | 2.39 | 7.49 | 6.76 | 85.7% |
| 14) | 356184 | T481 | 2.38 | 7.73 | 6.84 | 83.4% |
| 15) | 356185 | T486 | 2.37 | 7.91 | 7.01 | 83.8% |
| 16) | 356186 | T478 | 2.39 | 8.28 | 7.29 | 83.2% |
| 17) | 356187 | T463 | 2.46 | 7.88 | 6.86 | 81.2% |
| 18) | 356188 | T318 | 2.45 | 8.08 | 7.10 | 82.6% |
| 19) | 356189 | T317 | 2.47 | 7.79 | 6.95 | 84.2% |
| *20) | 356181 | T316 | 2.44 | 7.75 | 6.81 | 82.3% |
| Dup 20) | 356181 | T315 | 2.45 | 7.76 | 6.85 | 82.9% |

Dry Weight = Sample + Dish (gms)

Wet Weight = Sample + Dish (gms)

Balance: VOB-01

| * 2nd Reading, | 6.81 | |
|---|---|---|
| | Set RPD: | 0.7% |
| | *mg Differen | 0 |

| Stop Date: | 11/22/2019 |
|---|---|
| Stop Time: | 08:04 |

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D* )/(*E-D* ))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

FORM #: FWC26-06
Rev. #: 1.0
Effective Date: 06/03/2014

# TOTAL SOLIDS (PERCENT)

LIMS #: 166543

| Start Date: | 11/21/2019 | Start Time: | 18:48 | | Analyst: | BMM |
|---|---|---|---|---|---|---|
| | Sample ID# | Dish# | Tared Weight g *(D)* | Wet Weight g *(E)* | Dry Weight g *(F)* | RESULTS % TOTAL SOLIDS |
| 1) | 356192 | T578 | 2.45 | 8.24 | 7.21 | 82.2% |
| 2) | 356193 | T577 | 2.45 | 7.89 | 6.84 | 80.7% |
| 3) | 356194 | T294 | 2.44 | 8.33 | 7.39 | 84.0% |
| 4) | 356195 | T293 | 2.44 | 7.74 | 6.98 | 85.7% |
| 5) | 356196 | T291 | 2.44 | 8.24 | 7.30 | 83.8% |
| 6) | 356197 | T292 | 2.44 | 8.34 | 7.25 | 81.5% |
| 7) | 356198 | T215 | 2.47 | 8.29 | 7.34 | 83.7% |
| 8) | 356199 | T214 | 2.47 | 8.01 | 7.09 | 83.4% |
| 9) | 356200 | T213 | 2.45 | 8.41 | 7.51 | 84.9% |
| 10) | 356201 | T462 | 2.46 | 8.31 | 7.51 | 86.3% |
| 11) | 356202 | T461 | 2.42 | 8.43 | 7.48 | 84.2% |
| 12) | 356203 | T460 | 2.41 | 7.68 | 6.85 | 84.3% |
| 13) | 356204 | T278 | 2.46 | 8.80 | 7.87 | 85.3% |
| 14) | 356205 | T277 | 2.43 | 8.78 | 8.13 | 89.8% |
| 15) | 356206 | T276 | 2.44 | 7.88 | 7.05 | 84.7% |
| 16) | 356219 | T275 | 2.40 | 10.06 | 8.99 | 86.0% |
| 17) | | | | | | 0.0% |
| 18) | | | | | | 0.0% |
| 19) | | | | | | 0.0% |
| *20) | 356191 | T474 | 2.42 | 4.50 | 4.14 | 82.7% |
| Dup 20) | 356191 | T447 | 2.48 | 5.31 | 4.87 | 84.5% |

Dry Weight = Sample + Dish (gms)

Wet Weight = Sample + Dish (gms)

* 2nd Reading, 4.15

Set RPD: 2.2%

Balance: VOB-01

*mg Differen 10

**Stop Date:** 11/22/2019

**Stop Time:** 08:04

Calculations

*2nd reading must be within 50mg of the 1st

% Total Solids = ((*F-D* )/(*E-D* ))*100

RPD, % = Absolute value of…((Sample-Dup % TS)/(Average%TS))*100

# INORGANICS
# LOGBOOK
# DOCUMENTS

# WPH Analytical Run
# 166453 on 11/11/2019

Date Analyzed: 11-11-19
Date Entered: 11-11-19 SRW
Date Reviewed: SR
Date Validated: 11-13-19

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149521 | 356623 | ACADM-WW-001 | 11/07/2019 1700 | | | MAXXAM ANALYTICS | SI OF AFFF AREAS | PH | | GW | 4 | |
| 149521 | 356625 | ACADM-WS-001 | 11/07/2019 1700 | | | MAXXAM ANALYTICS | SI OF AFFF AREAS | PH | | S | 4 | |
| | 356774 | EFFLUENT | 11/08/2019 0700 | DUP | 355256 | | | PH SM4500H+B | | | | |
| | 356775 | ACADM-WS-001 | 11/07/2019 1700 | DUP | 356625 | | | PH | | | | |
| | 356776 | S3751 FAIRFIELD RD | 11/08/2019 1240 | DUP | 355254 | | | PH | | | | |
| | 356777 | ACADM-WW-001 | 11/07/2019 1700 | DUP | 356623 | | | PH | | | | |

**11** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

FORM #: FWC20, 21-01
Rev. #: 1.3
Effective Date: 10/20/17
Page 1 of 1

# pH Data Validation Checklist

| | | Method: pH EPA 150.1, SM 4500-H+B, EPA 9040C, EPA 9045D | | | |
|---|---|---|---|---|---|
| **LIMS Run #(s)** | **Analysis Date** | **Analyst / Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved? (Yes or No)** |
| 166453 | 11/11/2019 | SRW | etk | 11/13/2019 | yes |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| **Requirement:** | **Acceptance Criteria** | **Analyst Review** | | **Independent Review** | | **Comments:** |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | (indicate reference to an attachment if necessary) |
| 1. Was the calibration slope recorded on the bench sheet? | 95-110% | Yes | | Yes | | |
| 2. Were reagents/standards used before expiration date? | --- | Yes | | Yes | | |
| 3. Were duplicates analyzed at the appropriate frequency? | 1 every 20 samples of the same matrix | Yes | | Yes | | |
| 4. Were the duplicates within acceptable limits? | Differ by $\leq$ 0.10 pH units | Yes | | Yes | | |
| 5. Are all samples on the job lists accounted for? | --- | Yes | | Yes | | |
| 6. Were SM 4500-H+B samples bracketed by calibration buffer 7? | Every 10 samples, Differ by $\leq$ 0.10 pH units | Yes | | Yes | | |

# WFLASHPOINT Analytical Run
# 166449 on 11/11/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 149315 | 351621 | SOIL/HW Flash Point | 10/31/2019 00:00 | | CT LABORATORIES | Proficiency Testing | FLASHPOINT | | S | **4** | |
| 149511 | 356219 | 46ADPT-TCLP | 11/07/2019 1030 | | HDR, INC | LONGHORN | FLASHPOINT | | S | **4** | |

**2** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

FORM #: WC34-01
Rev. #: 1.1
Effective Date: 10/09/17
Page 1 of 1

# Flashpoint Data Validation Checklist

| | | Method: Flashpoint EPA Method 1010 | | | |
|---|---|---|---|---|---|
| **LIMS Run #(s)** | **Analysis Date** | **Analyst / Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved? (Yes or No)** |
| 166449 | 11/11/2019 | CLB | ETK | 11/17/2019 | YES |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| **Requirement:** | **Acceptance Criteria** | **Analyst Review** | | **Independent Review** | | **Comments:** |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | (indicate reference to an attachment if necessary) |
| 1. Was LCS within acceptable limits? | 77.9-81.9 F | X | | Yes | | |
| 2. Were duplicates analyzed at the appropriate frequency? | 1 every 20 samples of the same matrix | X | | Yes | | |
| 3. Were the duplicates within acceptable limits? | Differ by < 5 F | X | | Yes | | |
| 4. Are all samples on the job lists accounted for? | --- | X | | Yes | | |

# WSULFIDE, REACT Analytical Run
# 166583 on 11/14/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: 11-17-19

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356219 | | 11/07/2019 | 1030 | | | HDR, INC | LONGHORN | SULFIDE, REACT | | S | 4 | |
| | | 46ADPT-TCLP | | | | | | | | | | | |
| | 358334 | | | | LCSS | | | | WSULFIDE, REACT | | | | |
| | 358335 | | | | MBS | | | | WSULFIDE, REACT | | | | |
| | 358336 | | 11/07/2019 | 1030 | | | | | SULFIDE, REACT | | | | |
| | | 46ADPT-TCLP | | | DUP | 356219 | | | | | | | |
| | 358337 | | 11/07/2019 | 1030 | | | | | SULFIDE, REACT | | | | |
| | | 46ADPT-TCLP | | | MSS | 356219 | | | | | | | |

**5** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# Reactive Cyanide Data Validation Checklist

| | | Method: Reactive Cyanide Screening | | | |
|---|---|---|---|---|---|
| **LIMS Run #(s)** | **Analysis Date** | **Analyst / Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved? (Yes or No)** |
| 166589 | 11/14/2019 | CLB | etk | 11/17/2019 | yes |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| **Requirement:** | **Acceptance Criteria** | **Analyst Review** | | **Independent Review** | | **Comments:** |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | (indicate reference to an attachment if necessary) |
| 1. Does a bench sheet accompany the run? | --- | X | | Yes | | |
| 2. Were the samples analyzed within hold time? | 14 days | X | | Yes | | |
| 3. Were reagents/standards used before expiration date? | --- | X | | Yes | | |
| 4. Was a method blank analyzed along with the samples? | --- | X | | Yes | | |
| 5. Was the method blank result acceptable? | < \|LOD\| | X | | Yes | | |
| 6. Were duplicates analyzed at the required frequency? | 1 per 20 samples of the same matrix | X | | Yes | | |
| 7. Was the RPD of the duplicates acceptable? | Within in house QC limits | X | | Yes | | |
| 8. Was an LCS standard analyzed at the required frequency? | 1 per 20 samples of the same matrix | X | | Yes | | |
| 9. Were the recoveries acceptable for the LCS? | Positive | X | | Yes | | |
| 10. Was a MS analyzed within acceptable limits? | Positive | X | | Yes | | |
| 11. Are all samples on the job lists accounted for? | --- | X | | Yes | | |
| 12. Was PM notified of positive samples? | --- | X | | Yes | | |

# WSULFIDE, REACT Analytical Run
# 166583 on 11/14/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | | QC TYPE (Parent Sample) | | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356219 | | 11/07/2019 | 1030 | | | HDR, INC | LONGHORN | SULFIDE, REACT | | S | 4 | |
| | | 46ADPT-TCLP | | | | | | | | | | | |
| | 358334 | | | | LCSS | | | | WSULFIDE, REACT | | | | |
| | 358335 | | | | MBS | | | | WSULFIDE, REACT | | | | |
| | 358336 | | 11/07/2019 | 1030 | | | | | SULFIDE, REACT | | | | |
| | | 46ADPT-TCLP | | | DUP | 356219 | | | | | | | |
| | 358337 | | 11/07/2019 | 1030 | | | | | SULFIDE, REACT | | | | |
| | | 46ADPT-TCLP | | | MSS | 356219 | | | | | | | |

**5** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# WSOLIDS Analytical Run
# 166542 on 11/22/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356170 | | 11/04/2019 1400 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-002 (26-27) | | | | | | | | | |
| 149511 | 356171 | | 11/04/2019 1410 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-002 (32-33) | | | | | | | | | |
| 149511 | 356172 | | 11/04/2019 1420 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-002 (40-41) | | | | | | | | | |
| 149511 | 356173 | | 11/04/2019 1540 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-003 (29-30) | | | | | | | | | |
| 149511 | 356174 | | 11/04/2019 1550 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-003 (35-36) | | | | | | | | | |
| 149511 | 356175 | | 11/04/2019 1600 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-003 (39-40) | | | | | | | | | |
| 149511 | 356176 | | 11/05/2019 0810 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-001 (27-28) | | | | | | | | | |
| 149511 | 356177 | | 11/05/2019 0820 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-001 (31-32) | | | | | | | | | |
| 149511 | 356178 | | 11/05/2019 0830 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-001 (38-39) | | | | | | | | | |
| 149511 | 356179 | | 11/05/2019 0940 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-009 (24-25) | | | | | | | | | |
| 149511 | 356180 | | 11/05/2019 0950 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-009 (28-29) | | | | | | | | | |
| 149511 | 356181 | | 11/05/2019 1000 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-009 (31-32) | | Designated MS/MSD | | | | | | | |
| 149511 | 356182 | | 11/05/2019 0800 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DUP-001 | | | | | | | | | |
| 149511 | 356183 | | 11/05/2019 1120 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-006 (20-21) | | | | | | | | | |
| 149511 | 356184 | | 11/05/2019 1130 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-006 (27-28) | | | | | | | | | |
| 149511 | 356185 | | 11/05/2019 1140 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-006(30-31) | | Designated MS/MSD | | | | | | | |
| 149511 | 356186 | | 11/05/2019 0830 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DUP-002 | | | | | | | | | |
| 149511 | 356187 | | 11/05/2019 1250 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-005 (24-25) | | | | | | | | | |
| 149511 | 356188 | | 11/05/2019 1300 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-005 (27-28) | | | | | | | | | |



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# WSOLIDS Analytical Run
# 166542 on 11/22/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356189 | | 11/05/2019 1310 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-005 (31-32) | | | | | | | | | |
| | 361708 | | 11/05/2019 1000 | | | | SOLIDS,PERCENT | | | | |
| | | DPT-009 (31-32) | | DUP 356181 | | | | 0 | | | |

**21** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC



**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

# WSOLIDS Analytical Run
# 166543 on 11/22/2019

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

| COC | ORDER | SAMPLE DECRIPTION | SAMPLE DATE/ TIME | QC TYPE (Parent Sample) | CLIENT | PROJECT | TEST | PREP BATCH | MATRIX | DEL | RUSH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 149511 | 356191 | | 11/05/2019 1520 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-007 (27-28) | | | | | | | | | |
| 149511 | 356192 | | 11/05/2019 1530 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-007 (29-30) | | | | | | | | | |
| 149511 | 356193 | | 11/05/2019 1540 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-007 (31-32) | | | | | | | | | |
| 149511 | 356194 | | 11/06/2019 0900 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-004 (28-29) | | | | | | | | | |
| 149511 | 356195 | | 11/06/2019 0910 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-004 (30-31) | | | | | | | | | |
| 149511 | 356196 | | 11/06/2019 0920 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-004 (32-33) | | | | | | | | | |
| 149511 | 356197 | | 11/06/2019 1050 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-008 (26-27) | | | | | | | | | |
| 149511 | 356198 | | 11/06/2019 1100 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-008 (27-28) | | | | | | | | | |
| 149511 | 356199 | | 11/06/2019 1110 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-008 (29-30) | | | | | | | | | |
| 149511 | 356200 | | 11/06/2019 1200 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-010 (23-24) | | | | | | | | | |
| 149511 | 356201 | | 11/06/2019 1210 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-010 (28-29) | | | | | | | | | |
| 149511 | 356202 | | 11/06/2019 1220 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-010 (32-33) | | | | | | | | | |
| 149511 | 356203 | | 11/06/2019 0800 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DUP-003 | | | | | | | | | |
| 149511 | 356204 | | 11/06/2019 1340 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-011 (22-23) | | | | | | | | | |
| 149511 | 356205 | | 11/06/2019 1350 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-011 (27-28) | | | | | | | | | |
| 149511 | 356206 | | 11/06/2019 1400 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | DPT-011 (31-32) | | | | | | | | | |
| 149511 | 356219 | | 11/07/2019 1030 | | HDR, INC | LONGHORN | SOLIDS,PERCENT | | S | 4 | |
| | | 46ADPT-TCLP | | | | | | | | | |
| | 361711 | | 11/05/2019 1520 | | | | SOLIDS,PERCENT | | | | |
| | | DPT-007 (27-28) | | DUP 356191 | | | | 0 | | | |

**18** SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

**Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE**

FORM #: FWC26-10
Rev. #: 1.0
Effective Date: 10/13/2014

## FWC26-10 Data Review Checklist

| | | Method: Percent Solids SW846-8000C | Independent Data Review Checklist | | Balance: VOB-01 |
|---|---|---|---|---|---|
| **LIMS Run #(s)** | **Analysis Date** | **Analyst / Data Interpreter** | **Independent Reviewer** | **Date of Review** | **Approved? (Yes or No)** |
| 166532, 166533, 166534, 166535, 166536, 166537, 166538, 166542, 166543, 166544, 166545 | 11/21/2019 | BMM | RLD | 11/22/2019 | Yes |

**Instructions:** Complete one checklist per *analytical run* . Enter the appropriate response for each question.
Each "No" response requires an explanation in the Comments section, and may require the initiation of a Nonconformance Report.

| **Requirement:** | **Acceptance Criteria** | **Analyst Review** | | **Independent Review** | | **Comments:** |
|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | (indicate reference to an attachment if necessary) |
| 1. Were samples analyzed within hold time? | 14 days or program/project specific | Yes | | Yes | | Qualify data prepared after hold time |
| 2. Were samples dried overnight? | > 8hours | Yes | | Yes | | If No: place samples back into oven for mimium of 8 hours of total dry time. |
| 3. Were drying start and stop times recorded? | --- | Yes | | Yes | | If No: record times and temperatures |
| 4. Were duplicates analyzed at the appropriate frequency? | 1 per 20 of similar matrix or at program/project specific frequency | Yes | | Yes | | If No: reprep samples with appropreate frequency for a duplicate. |
| 5. Were the duplicates within acceptable limits? | Within in-house or program/project specific QC limits | Yes | | Yes | | If No: reprep and reanalyze samples or qualify parent sample result (Y). |
| 6. Are all samples on the job lists accounted for? | --- | Yes | | Yes | | If No: analyze samples that were were missed. |
| 7. Were nonconformities (if applicable) documented in the NCR spreadsheet? | | Yes | | Yes | | If No: Enter nonformities into the NCR spreadsheet before data review/validation. |

# CHAIN OF CUSTODY,
# PM CONFIRMATION
# AND
# SAMPLE CONDITION FORMS
# DOCUMENTS

CT LABORATORIES
delivering more than data from your environmental analyses

# Sample Condition Report

Folder #: 149511
Client: HDR, INC

Print Date / Time: 11/11/2019 14:20
Received Date / Time / By: 11/09/2019 11:40 JLS

Project Name: LONGHORN
Project Phase:

Log-In Date / Time / By: 11/11/2019 12:15 JLS
Project #: 10097916 PM: ETK

Coolers: 5 COOLERS
Custody Seals Present : **Y**

Temperature: ≤2.9 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 78084332266
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE 1 CUSTODY SEAL PRESENT AND INTACT ON EACH COOLER
ALL DATED 11/08/2019 AND SIGNED

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356164** TB-001 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 2** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356170** DPT-002 (26-27) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356170** DPT-002 (26-27) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356171** DPT-002 (32-33) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356171** DPT-002 (32-33) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356172** DPT-002 (40-41) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356172** DPT-002 (40-41) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |

| | | | | |
|---|---|---|---|---|
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356173** DPT-003 (29-30) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356173** DPT-003 (29-30) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356174** DPT-003 (35-36) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356174** DPT-003 (35-36) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356175** DPT-003 (39-40) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356175** DPT-003 (39-40) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356176** DPT-001 (27-28) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356176** DPT-001 (27-28) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356177** DPT-001 (31-32) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356177** DPT-001 (31-32) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |

149511

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356178** DPT-001 (38-39) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356178** DPT-001 (38-39) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356179** DPT-009 (24-25) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356179** DPT-009 (24-25) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356180** DPT-009 (28-29) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356180** DPT-009 (28-29) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356181** DPT-009 (31-32) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | SOLIDS | 1 | / | %SOL |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 3** | | | |
| **356181** DPT-009 (31-32) | | | | |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE* ) = 6** | | | |
| **356181** DPT-009 (31-32) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |

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**356182** DUP-001

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356182** DUP-001

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356183** DPT-006 (20-21)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356183** DPT-006 (20-21)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356184** DPT-006 (27-28)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356184** DPT-006 (27-28)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356185** DPT-006(30-31)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %sol |
| SOLIDS | 1 | / | %sol |
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 3**

**356185** DPT-006(30-31)

| | | | |
|---|---|---|---|
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE* ) = 6**

**356185** DPT-006(30-31)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356186** DUP-002

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356186** DUP-002

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| | | | | |
|---|---|---|---|---|
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356187** DPT-005 (24-25) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356187** DPT-005 (24-25) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |
| **356188** DPT-005 (27-28) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356188** DPT-005 (27-28) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |
| **356189** DPT-005 (31-32) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356189** DPT-005 (31-32) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |
| **356190** EB-001 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **356191** DPT-007 (27-28) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356191** DPT-007 (27-28) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

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**356192** DPT-007 (29-30)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356192** DPT-007 (29-30)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356193** DPT-007 (31-32)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356193** DPT-007 (31-32)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356194** DPT-004 (28-29)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356194** DPT-004 (28-29)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356195** DPT-004 (30-31)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356195** DPT-004 (30-31)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356196** DPT-004 (32-33)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356196** DPT-004 (32-33)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

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**356197** DPT-008 (26-27)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356197** DPT-008 (26-27)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356198** DPT-008 (27-28)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356198** DPT-008 (27-28)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356199** DPT-008 (29-30)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356199** DPT-008 (29-30)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356200** DPT-010 (23-24)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356200** DPT-010 (23-24)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356201** DPT-010 (28-29)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356201** DPT-010 (28-29)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356202** DPT-010 (32-33)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

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**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356202** DPT-010 (32-33)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

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**356203** DUP-003

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356203** DUP-003

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

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**356204** DPT-011 (22-23)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356204** DPT-011 (22-23)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

---

**356205** DPT-011 (27-28)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356205** DPT-011 (27-28)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

---

**356206** DPT-011 (31-32)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356206** DPT-011 (31-32)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

---

**356207** DPT-002

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |

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| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 9**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356208** DUP-004

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356209** DPT-003

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356210** DPT-004

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356211** DPT-009

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356212** DPT-006

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356213** DPT-007

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356214** DPT-001

| | | | | |
|---|---|---|---|---|
| | AMBER GL | 1 | / | 8270 |

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| | | | | |
|---|---|---|---|---|
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

**356214** DPT-001

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356215** DPT-005

| | | | |
|---|---|---|---|
| AMBER GL | 1 | / | 8270 |
| AMBER GL | 1 | / | 8270 |
| **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

**356215** DPT-005

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356216** DPT-008

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356217** DPT-010

| | | | |
|---|---|---|---|
| AMBER GL | 1 | / | 8270 |
| AMBER GL | 1 | / | 8270 |
| **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

**356217** DPT-010

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356218** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| AMBER GL | 1 | / | 8270,HERBS,PEST |
| **Total # of Containers of Type** | **( *AMBER GL* ) = 1** | | |

**356218** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | HG,ICP |
| **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |

**356218** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| JAR GL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *JAR GL* ) = 1** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356219** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL,CN React,FLASH,pH,S2 React |
| **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |

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| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356220** EB-002 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356221** DPT-011 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356222** 47WW09 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356223** EB-003 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |
| **356223** EB-003 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356224** 47WW37 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356225** DUP-005 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356226** DUP-006 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

149511

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356227** 47WW25R-35 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type ( *AMBER GL* ) = 6** | | | |
| **356227** 47WW25R-35 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 3** | | | |
| **356228** 47WW25R-38 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type ( *AMBER GL* ) = 2** | | | |
| **356228** 47WW25R-38 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 3** | | | |
| **356229** TB-002 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 2** | | | |
| **356230** TB-003 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 2** | | | |

| *Condition Code* | *Condition Description* |
|---|---|
| 1 | Sample Received OK |

149511

Rev. 02/2017

# CHAIN OF CUSTODY

Page 1 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 149511
Company: HDR, INC
Project: LONGHORN
Logged By: JLS PM: ET

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fill in Spaces with Bottles per Test | | | | | |
| 11/4/19 | 0800 | TB | — | | TB-001 | | X | 2 | | 356164 |
| 11/4/19 | 1400 | S | G | | DPT-002 (26-27) | | X | 4 | | 356170 |
| 11/4/19 | 1410 | S | G | | DPT-002 (32-33) | | X | 4 | | 356171 |
| 11/4/19 | 1420 | S | G | | DPT-002 (40-41) | | X | 4 | | 356172 |
| 11/4/19 | 1540 | S | G | | DPT-003 (29-30) | | X | 4 | | 356173 |
| 11/4/19 | 1550 | S | G | | DPT-003 (35-36) | | X | 4 | | 356174 |
| 11/4/19 | 1600 | S | G | | DPT-003 (39-40) | | X | 4 | | 356175 |
| 11/5/19 | 0810 | S | G | | DPT-001 (27-28) | | X | 4 | | 356176 |
| 11/5/19 | 0820 | S | G | | DPT-001 (31-32) | | X | 4 | | 356177 |
| 11/5/19 | 0830 | S | G | | DPT-001 (38-39) | | X | 4 | | 356178 |
| 11/5/19 | 0940 | S | G | | DPT-009 (24-25) | | X | 4 | | 356179 |
| 11/5/19 | 0950 | S | G | | DPT-009 (28-29) | | X | 4 | | 356180 |

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | T-Ader | |
| Received by: | Date/Time | Received for Laboratory by: | Date/Time |
| jls for ATJ | 11/9/19 1140 | | 11/11/19 1215 |

Lab Use Only
Ice Present (Yes) No
Temp 2.9 IR Gun 28
Cooler # 5 coolers

Rev. 02/2017

# CHAIN OF CUSTODY

Page 2 of 4

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*
M49511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | |
| 11/5/19 | 1000 | S | G | | DPT-009 (31-32) | | X | 4 | | 356181 |
| 11/5/19 | 1000 | S | G | | DPT-009 (31-32) MS | | X | 4 | | 356181 |
| 11/5/19 | 1000 | S | G | | DPT-009 (31-32) MSD | | X | 4 | | 356181 |
| 11/5/19 | 0800 | S | G | | DUP-001 | | X | 4 | | 356182 |
| 11/5/19 | 1120 | S | G | | DPT-006 (20-21) | | X | 4 | | 356183 |
| 11/5/19 | 1130 | S | G | | DPT-006 (27-28) | | X | 4 | | 356184 |
| 11/5/19 | 1140 | S | G | | DPT-006 (30-31) | | X | 4 | | 356185 |
| 11/5/19 | 0830 | S | G | | DUP-002 | | X | 4 | | 356186 |
| 11/5/19 | 1140 | S | G | | DPT-006 (30-31) MS | | X | 4 | | 356185 |
| 11/5/19 | 1140 | S | G | | DPT-006 (30-31) MSD | | X | 4 | | 356185 |
| 11/5/19 | 1250 | S | G | | DPT-005 (24-25) | | X | 4 | | 356187 |
| 11/5/19 | 1300 | S | G | | DPT-005 (27-28) | | X | 4 | | 356188 |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | Fedex | |
| **Received by:** | **Date/Time** | **Received for Laboratory by:** | **Date/Time** |
| | 11/9/19 1140 | | 11/11/19 0815 |

*Lab Use Only*
Ice Present (Yes) No
Temp 2.2-1 IR Gun 28
Cooler # 5 coolers



E-2856

Rev. 02/2017

# CHAIN OF CUSTODY

Page 3 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

**Turnaround Time**
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | |
| 11/5/19 | 1310 | S | G | | DPT-005 (31-32) | | X | 4 | | 356189 |
| 11/5/19 | 1500 | W | — | | EB-001 | | X | 3 | | 356190 |
| 11/5/19 | 1520 | S | G | | DPT-007 (27-28) | | X | 4 | | 356198 |
| 11/5/19 | 1530 | S | G | | DPT-007 (29-30) | | X | 4 | | 356192 |
| 11/5/19 | 1540 | S | G | | DPT-007 (31-32) | | X | 4 | | 356193 |
| 11/6/19 | 0900 | S | G | | DPT-004 (28-29) | | X | 4 | | 356194 |
| 11/6/19 | 0910 | S | G | | DPT-004 (30-31) | | X | 4 | | 356195 |
| 11/6/19 | 0920 | S | G | | DPT-004 (32-33) | | X | 4 | | 356196 |
| 11/6/19 | 1050 | S | G | | DPT-008 (26-27) | | X | 4 | | 356197 |
| 11/6/19 | 1100 | S | G | | DPT-008 (27-28) | | X | 4 | | 356198 |
| 11/6/19 | 1110 | S | G | | DPT-008 (29-30) | | X | 4 | | 356199 |
| 11/6/19 | 1200 | S | G | | DPT-010 (23-24) | | X | 4 | | 356200 |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | Fedex | |
| Received by: | Date/Time | Received for Laboratory by: | Date/Time |
| [illegible] ATI | 11/9/19 1140 | [illegible] | 11/11/19 1215 |

*Lab Use Only*
Ice Present (Yes) No
Temp 4.2.9 IR Gun 28
Cooler # 5 Coolers

Rev. 02/2017

# CHAIN OF CUSTODY



Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 100979111
Location: LHAAP
Sampled By: FEN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Lab Use Only
Place Header Sticker Here:

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address:

Invoice To:* SAMB
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | |
| 11/6/19 | 1210 | S | G | | DPT-010 (28-29) | | X | 4 | | 356201 |
| 11/6/19 | 1220 | S | G | | DPT-010 (32-33) | | X | 4 | | 356202 |
| 11/6/19 | 0800 | S | G | | DUP-003 | | X | 4 | | 356203 |
| 11/6/19 | 1340 | S | G | | DPT-011 (22-23) | | X | 4 | | 356204 |
| 11/6/19 | 1350 | S | G | | DPT-011 (27-28) | | X | 4 | | 356205 |
| 11/6/19 | 1400 | S | G | | DPT-011 (31-32) | | X | 4 | | 356206 |
| 11/6/19 | 1420 | GW | G | | DPT-002 | | X | 3 | | 356207 |
| 11/6/19 | 1420 | GW | G | | DPT-002 MS | | X | 3 | | 356207 |
| 11/6/19 | 1420 | GW | G | | DPT-002 MSD | | X | 3 | | 356207 |
| 11/6/19 | 0830 | GW | G | | DUP-004 | | X | 3 | | 356208 |
| 11/6/19 | 1500 | GW | G | | DPT-003 | | X | 3 | | 356209 |
| 11/6/19 | 1515 | GW | G | | DPT-004 | | X | 3 | | 356210 |

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Relinquished By: | Date/Time | Received By: | Date/Time | Lab Use Only |
|---|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | FedEx | | Ice Present (Yes) No |
| Received by: | Date/Time | Received for Laboratory by: | Date/Time | Temp 2.9 IR Gun 28 |
| for ATJ | 11/9/19 1140 | | 11/11/19 MS | Cooler # 5 Coolers |

01013983

Rev. 02/2017

# CHAIN OF CUSTODY

Page 5 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**
DPT-007 expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | VOC | 1,4-Dioxane | TCLP VOC | TCLP SVOC | TCLP Metals/Hg | TCLP Herbicides | TCLP Pesticides | Ignitability | Corrosivity | Reactivity | | | | | | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | | | | | | | | | | | | | | | | |
| 11/6/19 | 1525 | GW | G | | DPT-009 | | X | | | | | | | | | | | | | | | 3 | | 356211 |
| 11/6/19 | 1540 | GW | G | | DPT-006 | | X | | | | | | | | | | | | | | | 3 | | 356212 |
| 11/6/19 | 1550 | GW | G | | DPT-007 | | X | | | | | | | | | | | | | | | 3 | | 356213 |
| 11/7/19 | 0720 | GW | G | | DPT-001 | | X | X | | | | | | | | | | | | | | 5 | | 356214 |
| 11/7/19 | 0800 | GW | G | | DPT-005 | | X | X | | | | | | | | | | | | | | 5 | | 356215 |
| 11/7/19 | 0830 | GW | G | | DPT-008 | | X | | | | | | | | | | | | | | | 3 | | 356216 |
| 11/7/19 | 0840 | GW | G | | DPT-010 | | X | X | | | | | | | | | | | | | | 5 | | 356217 |
| 11/7/19 | 1030 | S | C | | 46ADPT-TCLP | | | | X | X | X | X | X | X | X | X | | | | | | 3 | | 356218/219 |
| 11/6/19 | 1600 | W | — | | EB-002 | | X | | | | | | | | | | | | | | | 3 | | 356220 |
| 11/7/19 | 0915 | GW | G | | DPT-011 | | X | | | | | | | | | | | | | | | 3 | | 356221 |
| 11/7/19 | 1525 | GW | G | | 47WW09 | | | X | | | | | | | | | | | | | | 2 | | 356222 |
| 11/8/19 | 0700 | W | — | | EB-003 | | X | X | | | | | | | | | | | | | | 5 | | 356223 |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | | |
| **Received by:** | **Date/Time** | **Received for Laboratory by:** | **Date/Time** |
| [signature] ATL | 11/9/19 1140 | [signature] | 11/11/19 1215 |

*Lab Use Only*
Ice Present (Yes) No
Temp 2.9 IR Gun 28
Cooler # SCCooler

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E-2859

Rev. 02/2017

# CHAIN OF CUSTODY

Page 6 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:*
EMAIL: SAMB
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

**Client Special Instructions**
47WW25R expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | VOC | 1,4-Dioxane | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fill in Spaces with Bottles per Test | | | | | | |
| 11/5/19 | 0915 | GW | G | | 47WW37 | | X | | 3 | | 356224 |
| 11/8/19 | 0800 | GW | G | | DUP-005 | | X | | 3 | | 356225 |
| 11/8/19 | 0830 | GW | G | | DUP-006 | | | X | 2 | | 356226 |
| 11/8/19 | 1040 | GW | G | | 47WW25R-35 | | X | X | 5 | | 356227 |
| 11/8/19 | 1040 | GW | G | | 47WW25R-35MS | | | X | 2 | | 356227 |
| 11/8/19 | 1040 | GW | G | | 47WW25R-35MSD | | | X | 2 | | 356227 |
| 11/8/19 | 1130 | GW | G | | 47WW25R-38 | | X | X | 5 | | 356228 |
| 11/4/19 | 0800 | TB | — | | TB-002 | | X | | 2 | | 356229 |
| 11/4/19 | 0800 | TB | — | | TB-003 | | X | | 2 | | 356230 |

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | | |
| Received by: | Date/Time | Received for Laboratory by: | Date/Time |
| | 11/9/19 1140 | | 11/11/19 1215 |

Lab Use Only
Ice Present (Yes) No
Temp 2.7 IR Gun 28
Cooler # 5 coolers

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
Page 1 of 1

# Cooler Receipt Form

Ice Present (YES) NO

Temperature 0.6

IR Gun # 28

Initials AFS

Date 11-9-19 Time 11:40

Cooler #: 6309

# Cooler Receipt Form

Ice Present (YES) NO

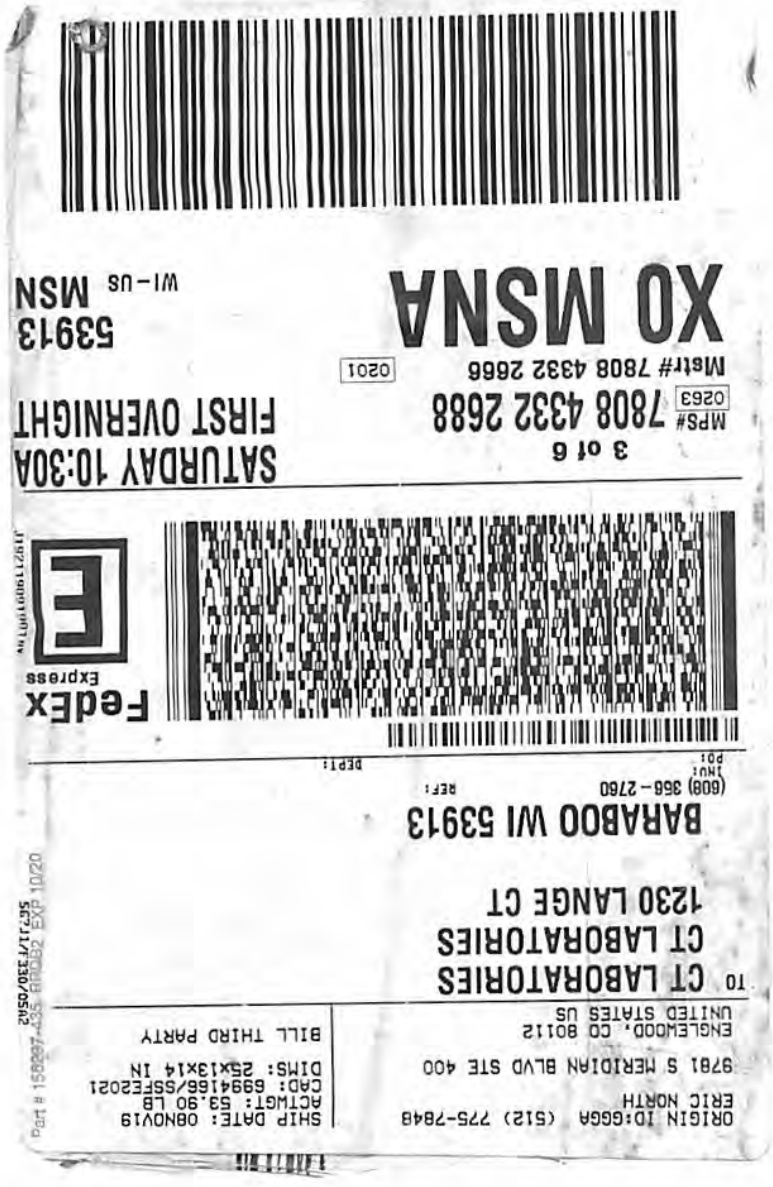
Temperature 2.9

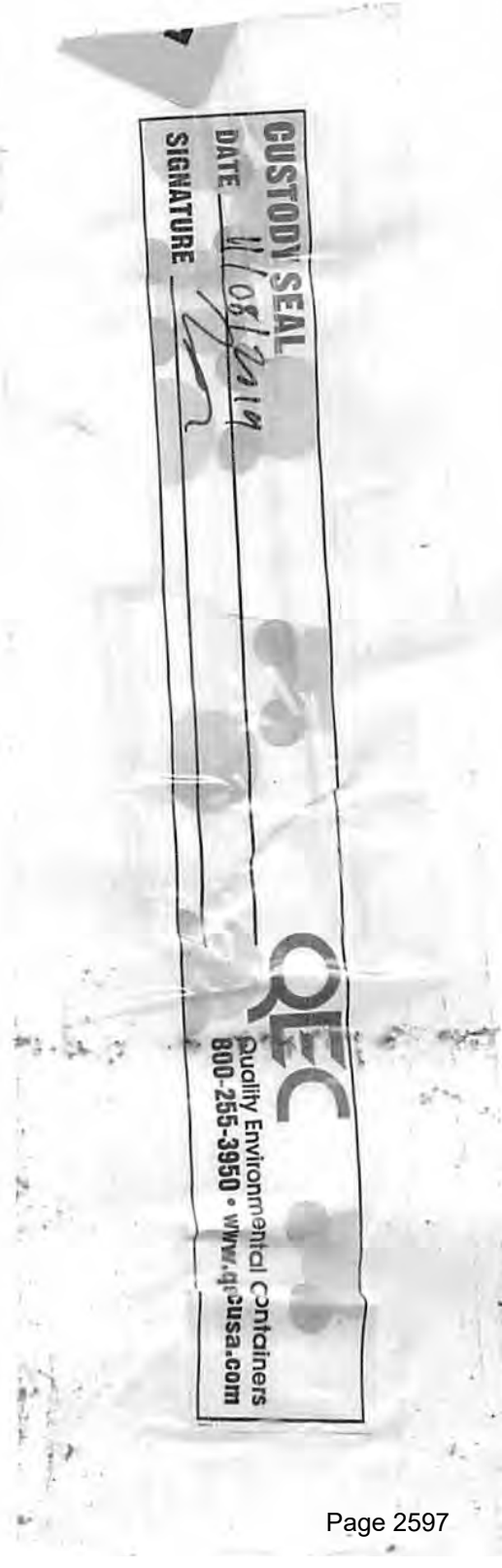
IR Gun # 28

Initials AT

Date 11-9-19 Time 12:30

Cooler #: 5602



01013987

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
Page 1 of 1

# Cooler Receipt Form

Ice Present (YES) NO

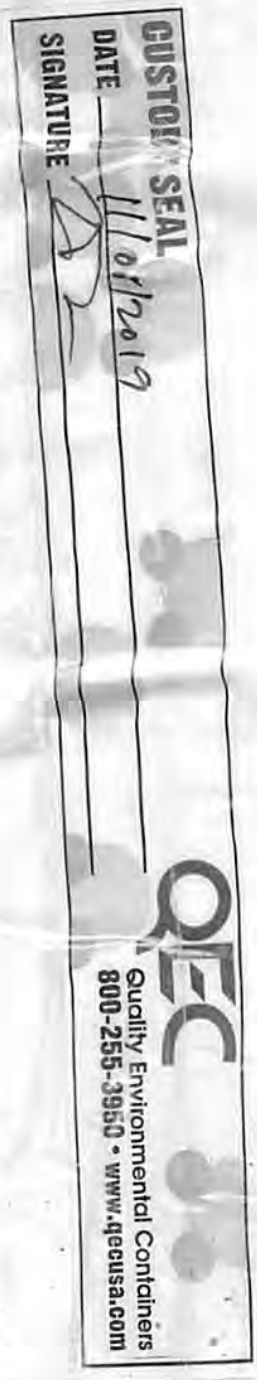
Temperature 2-3

IR Gun # 26

Initials AFS

Date 11-9-19 Time 12:30

Cooler #: G335




E-2863

01013988

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
Page 1 of 1

# Cooler Receipt Form

Ice Present (YES) NO

Temperature 1.2

IR Gun # 28

Initials AJS

Date 11-1-19 Time 11:50

Cooler #: 6178

E-2864

01013989

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
Page 1 of 1

# Cooler Receipt Form

Ice Present (YES) NO

Temperature 1

IR Gun # 28

Initials AS

Date 11-9-19 Time 11:50

Cooler #: 6310

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**Folder #: 149511**

## *PM LOGIN CONFIRMATION*

**Contract #:** 3320

**Company:** HDR, INC **Project:** LONGHORN **Proj #:** 10097916

**Project Phase:** **PO Number:** **Invoice #:** 150148

**Project Manager:** *ETK* **Date Received:** 11/11/19 **Log Date:** 11/11/2019

Report To: LYNN LUTZ CC:
9781 S. MERIDIAN BLVD.
SUITE 400
ENGLEWOOD, CO 80112
Phone: : Fax:
Rep. E-Mail LYNN.LUTZ@HDRINC.COM

Invoice To :ACCOUNTS PAYABLE CC: LYNN LUTZ
8404 INDIAN HILLS DR
OMAHA, NE 68114
Phone: Fax:
EMail: invoices@hdrinc.com

Collected By:
Collector's Phone:

Arrival Temperature: 2.9 oC

**SAMPLE #: 356164 DESCR: TB-001** **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED: 11/04/2019 Time: 0800**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/18/2019 | 11/23/2019 | | Logged |

**SAMPLE #: 356170 DESCR: DPT-002 (26-27)** **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/04/2019 Time: 1400**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #: 356171 DESCR: DPT-002 (32-33)** **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/04/2019 Time: 1410**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |



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**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356171 **DESCR:** DPT-002 (32-33) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1410

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356172 **DESCR:** DPT-002 (40-41) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1420

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356173 **DESCR:** DPT-003 (29-30) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1540

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356174 **DESCR:** DPT-003 (35-36) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1550

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356175 **DESCR:** DPT-003 (39-40) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/04/2019 **Time:** 1600

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |



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**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356176 **DESCR:** DPT-001 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0810

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356177 **DESCR:** DPT-001 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0820

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356178 **DESCR:** DPT-001 (38-39) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0830

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356179 **DESCR:** DPT-009 (24-25) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0940

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356180 **DESCR:** DPT-009 (28-29) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0950

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #: 356181 DESCR: DPT-009 (31-32)** **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/05/2019 Time: 1000**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | ***DESIGNATED MATRIX SPIKE*** | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | ***Y*** ***DESIGNATED MATRIX SPIKE*** | | 11/23/2019 | | Logged |

**SAMPLE #: 356182 DESCR: DUP-001** **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/05/2019 Time: 0800**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | ***Y*** | | 11/23/2019 | | Logged |

**SAMPLE #: 356183 DESCR: DPT-006 (20-21)** **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/05/2019 Time: 1120**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | ***Y*** | | 11/23/2019 | | Logged |

**SAMPLE #: 356184 DESCR: DPT-006 (27-28)** **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/05/2019 Time: 1130**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | ***Y*** | | 11/23/2019 | | Logged |

**SAMPLE #: 356185 DESCR: DPT-006(30-31)** **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED: 11/05/2019 Time: 1140**

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | ***DESIGNATED MATRIX SPIKE*** | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | ***Y*** ***DESIGNATED MATRIX SPIKE*** | | 11/23/2019 | | Logged |



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**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356186 **DESCR:** DUP-002 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 0830

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356187 **DESCR:** DPT-005 (24-25) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1250

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356188 **DESCR:** DPT-005 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1300

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356189 **DESCR:** DPT-005 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1310

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356190 **DESCR:** EB-001 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/05/2019 **Time:** 1500

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/19/2019 | 11/23/2019 | | Logged |



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**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356191 **DESCR:** DPT-007 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1520

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356192 **DESCR:** DPT-007 (29-30) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1530

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356193 **DESCR:** DPT-007 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/05/2019 **Time:** 1540

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356194 **DESCR:** DPT-004 (28-29) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0900

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356195 **DESCR:** DPT-004 (30-31) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0910

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356196 **DESCR:** DPT-004 (32-33) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0920

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356197 **DESCR:** DPT-008 (26-27) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1050

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356198 **DESCR:** DPT-008 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1100

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356199 **DESCR:** DPT-008 (29-30) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1110

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356200 **DESCR:** DPT-010 (23-24) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1200

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356201 **DESCR:** DPT-010 (28-29) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1210

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356202 **DESCR:** DPT-010 (32-33) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1220

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356203 **DESCR:** DUP-003 **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 0800

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356204 **DESCR:** DPT-011 (22-23) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1340

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356205 **DESCR:** DPT-011 (27-28) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1350

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356206 **DESCR:** DPT-011 (31-32) **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/06/2019 **Time:** 1400

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | | 11/23/2019 | | Logged |
| 1222 | VOC 8260 QSM LL 5.0 | (EPA 8260C) | | | *Y* | | 11/23/2019 | | Logged |

**SAMPLE #:** 356207 **DESCR:** DPT-002 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1420

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* ***DESIGNATED MATRIX SPIKE*** | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356208 **DESCR:** DUP-004 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 0830

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356209 **DESCR:** DPT-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1500

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356210 **DESCR:** DPT-004 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1515

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356211 **DESCR:** DPT-009 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1525

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356211 **DESCR:** DPT-009 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1525

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356212 **DESCR:** DPT-006 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1540

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356213 **DESCR:** DPT-007 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1550

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356214 **DESCR:** DPT-001 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0720

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/21/2019 | 11/23/2019 | | Logged |
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | | | 11/23/2019 | | NeedPrep |

**SAMPLE #:** 356215 **DESCR:** DPT-005 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0800

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/21/2019 | 11/23/2019 | | Logged |
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | | | 11/23/2019 | | NeedPrep |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356216 **DESCR:** DPT-008 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0830

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/21/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356217 **DESCR:** DPT-010 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0840

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/21/2019 | 11/23/2019 | | Logged |
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | | | 11/23/2019 | | NeedPrep |

**SAMPLE #:** 356218 **DESCR:** 46ADPT-TCLP **PRIMARY / DETAILED MATRIX:** AQUEOUS / TCLP **SAMPLED:** 11/07/2019 **Time:** 1030

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1051 | PESTICIDES QSM TCLP | (EPA 8081B) | | | | | 11/23/2019 | | NeedExt |
| 1192 | ICP QSM TCLP 5.0 | (EPA 6010C) | | | | 05/05/2020 | 11/23/2019 | | NeedExt |
| | | | Arsenic | | | | | | |
| | | | Barium | | | | | | |
| | | | Cadmium | | | | | | |
| | | | Chromium | | | | | | |
| | | | Lead | | | | | | |
| | | | Selenium | | | | | | |
| | | | Silver | | | | | | |
| 1207 | MERCURY QSM TCLP 5.0 | (EPA 7470A) | | | | 12/05/2019 | 11/23/2019 | | NeedExt |
| 1223 | VOC 8260 QSM TCLP 5.0 | (EPA 8260C) | | | | | 11/23/2019 | | NeedExt |
| 1247 | SVOC 8270 QSM 5 TCLP | (EPA 8270D) | | | | | 11/23/2019 | | NeedExt |
| 1310 | HERBICIDES TCLP QSM 5 | (EPA 8151A) | | | | | 11/23/2019 | | NeedExt |



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**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356219 **DESCR:** 46ADPT-TCLP **PRIMARY / DETAILED MATRIX:** SOLID / SOIL **SAMPLED:** 11/07/2019 **Time:** 1030

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 8 | SOLIDS,PERCENT | (EPA 8000C) | | | | 11/21/2019 | 11/23/2019 | | Logged |
| 203 | PH | (EPA 9045D) | | | | | 11/23/2019 | | Entered |
| 618 | FLASHPOINT | (EPA 1010A) | | | | 12/05/2019 | 11/23/2019 | | Logged |
| 703 | CYANIDE, REACT | (SW 846 Ch. 7) | | | | | 11/23/2019 | | Logged |
| 704 | SULFIDE, REACT | (ASTM D4978) | | | | | 11/23/2019 | | Logged |

**SAMPLE #:** 356220 **DESCR:** EB-002 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/06/2019 **Time:** 1600

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/20/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356221 **DESCR:** DPT-011 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 0915

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/21/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356222 **DESCR:** 47WW09 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/07/2019 **Time:** 1525

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | | | 11/23/2019 | | NeedPrep |

**SAMPLE #:** 356223 **DESCR:** EB-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0700

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/22/2019 | 11/23/2019 | | Logged |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356223 **DESCR:** EB-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0700

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | | | 11/23/2019 | | NeedPrep |

**SAMPLE #:** 356224 **DESCR:** 47WW37 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0915

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/22/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356225 **DESCR:** DUP-005 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0800

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/22/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356226 **DESCR:** DUP-006 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 0830

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | | | 11/23/2019 | | NeedPrep |

**SAMPLE #:** 356227 **DESCR:** 47WW25R-35 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 1040

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* ***DESIGNATED MATRIX SPIKE*** | 11/22/2019 | 11/23/2019 | | Logged |
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | ***DESIGNATED MATRIX SPIKE*** | | 11/23/2019 | | NeedPrep |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**SAMPLE #:** 356228 **DESCR:** 47WW25R-38 **PRIMARY / DETAILED MATRIX:** AQUEOUS / GROUND WATER **SAMPLED:** 11/08/2019 **Time:** 1130

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/22/2019 | 11/23/2019 | | Logged |
| 1290 | SVOC 8270 1,4-Dioxane QSM 5 | (EPA 8270D-SIM) | | | | | 11/23/2019 | | NeedPrep |

**SAMPLE #:** 356229 **DESCR:** TB-002 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 11/04/2019 **Time:** 0800

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/18/2019 | 11/23/2019 | | Logged |

**SAMPLE #:** 356230 **DESCR:** TB-003 **PRIMARY / DETAILED MATRIX:** AQUEOUS / TRIP BLANK **SAMPLED:** 11/04/2019 **Time:** 0800

**CLIENT SAMPLE #:** **DETAILED SITE/POINT ID INFORMATION:**

| TEST# | TEST | TEST METHOD | ANALYTE | TEST GROUP | SPECIAL REQUIREMENTS | HOLD DATE | ANALYSIS DUE | RUSH | STATUS |
|---|---|---|---|---|---|---|---|---|---|
| 1221 | VOC 8260 QSM 5.0 | (EPA 8260C) | | | *Y* | 11/18/2019 | 11/23/2019 | | Logged |

**Folder #:** 149511 **Company:** *HDR, INC* **Project:** LONGHORN

**Invoice Number:** 150148 **Preliminary Invoice Estimate:** $ 8,080.00

| Item | Matrix | Quantity | Price | Expedited TAT Surcharge | Total |
|---|---|---|---|---|---|
| CYANIDE, REACT | SOIL | 1 | $ 25.00 | 0.00 | $ 25.00 |
| FLASHPOINT | SOIL | 1 | $ 25.00 | 0.00 | $ 25.00 |
| HERBICIDES TCLP QSM 5 | TCLP | 1 | $ 125.00 | 0.00 | $ 125.00 |
| ICP QSM TCLP 5.0 Arsenic | TCLP | 1 | $ 15.00 | 0.00 | $ 15.00 |
| ICP QSM TCLP 5.0 Barium | TCLP | 1 | $ 15.00 | 0.00 | $ 15.00 |
| ICP QSM TCLP 5.0 Cadmium | TCLP | 1 | $ 15.00 | 0.00 | $ 15.00 |
| ICP QSM TCLP 5.0 Chromium | TCLP | 1 | $ 15.00 | 0.00 | $ 15.00 |
| ICP QSM TCLP 5.0 Lead | TCLP | 1 | $ 15.00 | 0.00 | $ 15.00 |
| ICP QSM TCLP 5.0 Selenium | TCLP | 1 | $ 15.00 | 0.00 | $ 15.00 |
| ICP QSM TCLP 5.0 Silver | TCLP | 1 | $ 15.00 | 0.00 | $ 15.00 |
| MERCURY QSM TCLP 5.0 | TCLP | 1 | $ 23.00 | 0.00 | $ 23.00 |
| PESTICIDES QSM TCLP | TCLP | 1 | $ 90.00 | 0.00 | $ 90.00 |
| PH | SOIL | 1 | $ 12.00 | 0.00 | $ 12.00 |
| SOLIDS,PERCENT | SOIL | 37 | $ 0.00 | 0.00 | $ 0.00 |
| SULFIDE, REACT | SOIL | 1 | $ 50.00 | 0.00 | $ 50.00 |
| SVOC 8270 1,4-Dioxane QSM 5 | GROUND WATER | 10 | $ 170.00 | 0.00 | $ 1700.00 |
| SVOC 8270 QSM 5 TCLP | TCLP | 1 | $ 125.00 | 0.00 | $ 125.00 |
| VOC 8260 QSM 5.0 | GROUND WATER | 21 | $ 80.00 | 0.00 | $ 1680.00 |
| VOC 8260 QSM 5.0 | TRIP BLANK | 3 | $ 80.00 | 0.00 | $ 240.00 |
| VOC 8260 QSM LL 5.0 | SOIL | 40 | $ 95.00 | 0.00 | $ 3800.00 |
| VOC 8260 QSM TCLP 5.0 | TCLP | 1 | $ 80.00 | 0.00 | $ 80.00 |
| Temporary Fuel Surcharge on lab supplies and services (if applicable): | | | | | $ 0.00 |



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**Folder #:** **149511** **Company:** ***HDR, INC*** **Project:** **LONGHORN**

Bottle Information

| Container | # Containers | Tests |
|---|---|---|
| **AMBER GL** | **21** | 8270,HERBS,PEST |
| **JAR GL** | **1** | VOC |
| **SOLIDS** | **42** | %SOL |
| **TERRA CORE** | **12** | VOC |
| **TERRA CORE KIT** | **108** | VOC |
| **VOA HCL** | **69** | VOC |

CT LABORATORIES
delivering more than data from your environmental analyses

# Sample Condition Report

Folder #: 149511
Client: HDR, INC

Print Date / Time: 11/11/2019 14:20
Received Date / Time / By: 11/09/2019 11:40 JLS

Project Name: LONGHORN
Project Phase:

Log-In Date / Time / By: 11/11/2019 12:15 JLS
Project #: 10097916 PM: ETK

Coolers: 5 COOLERS
Custody Seals Present : **Y**

Temperature: ≤2.9 C On Ice: **Y**
COC Present:? **Y** Complete? **Y**

Seal Intact? **Y**
Ship Method: FEDEX EXPRESS
Adequate Packaging: **Y**

Numbers: DATED AND SIGNED
Tracking Number: 78084332266
Temp Blank Enclosed? **Y**

Notes: SAMPLES REC'D IN GOOD CONDITION ON ICE 1 CUSTODY SEAL PRESENT AND INTACT ON EACH COOLER
ALL DATED 11/08/2019 AND SIGNED

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356164** TB-001 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 2** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356170** DPT-002 (26-27) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356170** DPT-002 (26-27) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356171** DPT-002 (32-33) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356171** DPT-002 (32-33) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356172** DPT-002 (40-41) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356172** DPT-002 (40-41) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |

| | | | | |
|---|---|---|---|---|
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356173** DPT-003 (29-30) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356173** DPT-003 (29-30) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356174** DPT-003 (35-36) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356174** DPT-003 (35-36) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356175** DPT-003 (39-40) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356175** DPT-003 (39-40) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356176** DPT-001 (27-28) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356176** DPT-001 (27-28) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) =** | **3** | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356177** DPT-001 (31-32) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) =** | **1** | |
| **356177** DPT-001 (31-32) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356178** DPT-001 (38-39) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356178** DPT-001 (38-39) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356179** DPT-009 (24-25) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356179** DPT-009 (24-25) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356180** DPT-009 (28-29) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 1** | | | |
| **356180** DPT-009 (28-29) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356181** DPT-009 (31-32) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | SOLIDS | 1 | / | %SOL |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type ( *SOLIDS* ) = 3** | | | |
| **356181** DPT-009 (31-32) | | | | |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | TERRA CORE | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE* ) = 6** | | | |
| **356181** DPT-009 (31-32) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type ( *TERRA CORE KIT* ) = 3** | | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |

149511

**356182** DUP-001

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356182** DUP-001

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356183** DPT-006 (20-21)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356183** DPT-006 (20-21)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356184** DPT-006 (27-28)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356184** DPT-006 (27-28)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356185** DPT-006(30-31)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %sol |
| SOLIDS | 1 | / | %sol |
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 3**

**356185** DPT-006(30-31)

| | | | |
|---|---|---|---|
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |
| TERRA CORE | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE* ) = 6**

**356185** DPT-006(30-31)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356186** DUP-002

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356186** DUP-002

| | | | | |
|---|---|---|---|---|
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356187** DPT-005 (24-25) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356187** DPT-005 (24-25) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356188** DPT-005 (27-28) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356188** DPT-005 (27-28) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356189** DPT-005 (31-32) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356189** DPT-005 (31-32) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356190** EB-001 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356191** DPT-007 (27-28) | | | | |
| | SOLIDS | 1 | / | %SOL |
| | **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |
| **356191** DPT-007 (27-28) | | | | |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | TERRA CORE KIT | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *TERRA CORE KIT* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356192** DPT-007 (29-30)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356192** DPT-007 (29-30)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356193** DPT-007 (31-32)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356193** DPT-007 (31-32)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356194** DPT-004 (28-29)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356194** DPT-004 (28-29)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356195** DPT-004 (30-31)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356195** DPT-004 (30-31)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356196** DPT-004 (32-33)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356196** DPT-004 (32-33)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356197** DPT-008 (26-27)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356197** DPT-008 (26-27)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356198** DPT-008 (27-28)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356198** DPT-008 (27-28)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356199** DPT-008 (29-30)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356199** DPT-008 (29-30)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356200** DPT-010 (23-24)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356200** DPT-010 (23-24)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356201** DPT-010 (28-29)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

**356201** DPT-010 (28-29)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356202** DPT-010 (32-33)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356202** DPT-010 (32-33)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

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**356203** DUP-003

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356203** DUP-003

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

---

**356204** DPT-011 (22-23)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356204** DPT-011 (22-23)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

---

**356205** DPT-011 (27-28)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356205** DPT-011 (27-28)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

---

**356206** DPT-011 (31-32)

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL |

**Total # of Containers of Type ( *SOLIDS* ) = 1**

---

**356206** DPT-011 (31-32)

| | | | |
|---|---|---|---|
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |
| TERRA CORE KIT | 1 | / | VOC |

**Total # of Containers of Type ( *TERRA CORE KIT* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

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**356207** DPT-002

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 9**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356208** DUP-004

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356209** DPT-003

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356210** DPT-004

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356211** DPT-009

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356212** DPT-006

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356213** DPT-007

| | | | | |
|---|---|---|---|---|
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |

**Total # of Containers of Type ( *VOA HCL* ) = 3**

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356214** DPT-001

| | | | | |
|---|---|---|---|---|
| | AMBER GL | 1 | / | 8270 |

| | | | | |
|---|---|---|---|---|
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

**356214** DPT-001

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356215** DPT-005

| | | | |
|---|---|---|---|
| AMBER GL | 1 | / | 8270 |
| AMBER GL | 1 | / | 8270 |
| **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

**356215** DPT-005

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356216** DPT-008

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356217** DPT-010

| | | | |
|---|---|---|---|
| AMBER GL | 1 | / | 8270 |
| AMBER GL | 1 | / | 8270 |
| **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

**356217** DPT-010

| | | | |
|---|---|---|---|
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| VOA HCL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356218** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| AMBER GL | 1 | / | 8270,HERBS,PEST |
| **Total # of Containers of Type** | **( *AMBER GL* ) = 1** | | |

**356218** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | HG,ICP |
| **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |

**356218** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| JAR GL | 1 | / | VOC |
| **Total # of Containers of Type** | **( *JAR GL* ) = 1** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|

**356219** 46ADPT-TCLP

| | | | |
|---|---|---|---|
| SOLIDS | 1 | / | %SOL,CN React,FLASH,pH,S2 React |
| **Total # of Containers of Type** | **( *SOLIDS* ) = 1** | | |

149511

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356220** EB-002 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356221** DPT-011 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356222** 47WW09 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356223** EB-003 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |
| **356223** EB-003 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356224** 47WW37 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356225** DUP-005 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type** | **( *VOA HCL* ) = 3** | | |
| **Sample ID / Description** | **Container Type** | **Cond. Code** | **pH OK?/Filtered?** | **Tests** |
| **356226** DUP-006 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type** | **( *AMBER GL* ) = 2** | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356227** 47WW25R-35 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type ( *AMBER GL* ) = 6** | | | |
| **356227** 47WW25R-35 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 3** | | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356228** 47WW25R-38 | | | | |
| | AMBER GL | 1 | / | 8270 |
| | AMBER GL | 1 | / | 8270 |
| | **Total # of Containers of Type ( *AMBER GL* ) = 2** | | | |
| **356228** 47WW25R-38 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 3** | | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356229** TB-002 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 2** | | | |

| Sample ID / Description | Container Type | Cond. Code | pH OK?/Filtered? | Tests |
|---|---|---|---|---|
| **356230** TB-003 | | | | |
| | VOA HCL | 1 | / | VOC |
| | VOA HCL | 1 | / | VOC |
| | **Total # of Containers of Type ( *VOA HCL* ) = 2** | | | |

| *Condition Code* | *Condition Description* |
|---|---|
| 1 | Sample Received OK |

01014018

Rev. 02/2017

# CHAIN OF CUSTODY

Page 1 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 149511
Company: HDR, INC
Project: LONGHORN
Logged By: JLS PM: ET

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fill in Spaces with Bottles per Test | | | | | |
| 11/4/19 | 0800 | TB | — | | TB-001 | | X | 2 | | 356164 |
| 11/4/19 | 1400 | S | G | | DPT-002 (26-27) | | X | 4 | | 356170 |
| 11/4/19 | 1410 | S | G | | DPT-002 (32-33) | | X | 4 | | 356171 |
| 11/4/19 | 1420 | S | G | | DPT-002 (40-41) | | X | 4 | | 356172 |
| 11/4/19 | 1540 | S | G | | DPT-003 (29-30) | | X | 4 | | 356173 |
| 11/4/19 | 1550 | S | G | | DPT-003 (35-36) | | X | 4 | | 356174 |
| 11/4/19 | 1600 | S | G | | DPT-003 (39-40) | | X | 4 | | 356175 |
| 11/5/19 | 0810 | S | G | | DPT-001 (27-28) | | X | 4 | | 356176 |
| 11/5/19 | 0820 | S | G | | DPT-001 (31-32) | | X | 4 | | 356177 |
| 11/5/19 | 0830 | S | G | | DPT-001 (38-39) | | X | 4 | | 356178 |
| 11/5/19 | 0940 | S | G | | DPT-009 (24-25) | | X | 4 | | 356179 |
| 11/5/19 | 0950 | S | G | | DPT-009 (28-29) | | X | 4 | | 356180 |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | [illegible] | |
| Received by: | Date/Time | Received for Laboratory By: | Date/Time |
| jls for ATJ | 11/9/19 1140 | [signature] | 11/11/19 1215 |

Lab Use Only
Ice Present (Yes) No
Temp 2.9 IR Gun 28
Cooler # 5 Coolers

E-2894

Rev. 02/2017

# CHAIN OF CUSTODY

Page 2 of 4

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Blds 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*
M49511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

**Turnaround Time**
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | |
| 11/5/19 | 1000 | S | G | | DPT-009 (31-32) | | X | 4 | | 356181 |
| 11/5/19 | 1000 | S | G | | DPT-009 (31-32) MS | | X | 4 | | 356181 |
| 11/5/19 | 1000 | S | G | | DPT-009 (31-32) MSD | | X | 4 | | 356181 |
| 11/5/19 | 0800 | S | G | | DUP-001 | | X | 4 | | 356182 |
| 11/5/19 | 1120 | S | G | | DPT-006 (20-21) | | X | 4 | | 356183 |
| 11/5/19 | 1130 | S | G | | DPT-006 (27-28) | | X | 4 | | 356184 |
| 11/5/19 | 1140 | S | G | | DPT-006 (30-31) | | X | 4 | | 356185 |
| 11/5/19 | 0830 | S | G | | DUP-002 | | X | 4 | | 356186 |
| 11/5/19 | 1140 | S | G | | DPT-006 (30-31) MS | | X | 4 | | 356185 |
| 11/5/19 | 1140 | S | G | | DPT-006 (30-31) MSD | | X | 4 | | 356185 |
| 11/5/19 | 1250 | S | G | | DPT-005 (24-25) | | X | 4 | | 356187 |
| 11/5/19 | 1300 | S | G | | DPT-005 (27-28) | | X | 4 | | 356188 |

Relinquished By: ERIC NORTH — Date/Time: 11/08/2019 1600 — Received By: Fedex — Date/Time:

Received by: — Date/Time: 11/9/19 1140 — Received for Laboratory by: — Date/Time: 11/11/19 0915

*Lab Use Only*
Ice Present (Yes) No
Temp 2.2-1 IR Gun 28
Cooler # 5 coolers

Rev. 02/2017

# CHAIN OF CUSTODY

Page 3 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

**Turnaround Time**
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | |
| 11/5/19 | 1310 | S | G | | DPT-005 (31-32) | | X | 4 | | 356189 |
| 11/5/19 | 1500 | W | — | | EB-001 | | X | 3 | | 356190 |
| 11/5/19 | 1520 | S | G | | DPT-007 (27-28) | | X | 4 | | 356191 |
| 11/5/19 | 1530 | S | G | | DPT-007 (29-30) | | X | 4 | | 356192 |
| 11/5/19 | 1540 | S | G | | DPT-007 (31-32) | | X | 4 | | 356193 |
| 11/6/19 | 0900 | S | G | | DPT-004 (28-29) | | X | 4 | | 356194 |
| 11/6/19 | 0910 | S | G | | DPT-004 (30-31) | | X | 4 | | 356195 |
| 11/6/19 | 0920 | S | G | | DPT-004 (32-33) | | X | 4 | | 356196 |
| 11/6/19 | 1050 | S | G | | DPT-008 (26-27) | | X | 4 | | 356197 |
| 11/6/19 | 1100 | S | G | | DPT-008 (27-28) | | X | 4 | | 356198 |
| 11/6/19 | 1110 | S | G | | DPT-008 (29-30) | | X | 4 | | 356199 |
| 11/6/19 | 1200 | S | G | | DPT-010 (23-24) | | X | 4 | | 356200 |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | Fedex | |
| Received by: | Date/Time | Received for Laboratory by: | Date/Time |
| for ATS | 11/9/19 1140 | | 11/11/19 1215 |

*Lab Use Only*
Ice Present (Yes) No
Temp 4.2.9 IR Gun 28
Cooler # 5 Coolers

E-2896

01014021

Rev. 02/2017

# CHAIN OF CUSTODY

Page 4 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 100979111
Location: LHAAP
Sampled By: FDN

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*

149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address:

Invoice To:* SAMB
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Turnaround Time
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: VOC | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fill in Spaces with Bottles per Test | | | | | |
| 11/6/19 | 1210 | S | G | | DPT-010 (28-29) | | X | 4 | | 356201 |
| 11/6/19 | 1220 | S | G | | DPT-010 (32-33) | | X | 4 | | 356202 |
| 11/6/19 | 0800 | S | G | | DUP-003 | | X | 4 | | 356203 |
| 11/6/19 | 1340 | S | G | | DPT-011 (22-23) | | X | 4 | | 356204 |
| 11/6/19 | 1350 | S | G | | DPT-011 (27-28) | | X | 4 | | 356205 |
| 11/6/19 | 1400 | S | G | | DPT-011 (31-32) | | X | 4 | | 356206 |
| 11/6/19 | 1420 | GW | G | | DPT-002 | | X | 3 | | 356207 |
| 11/6/19 | 1420 | GW | G | | DPT-002 MS | | X | 3 | | 356207 |
| 11/6/19 | 1420 | GW | G | | DPT-002 MSD | | X | 3 | | 356207 |
| 11/6/19 | 0830 | GW | G | | DUP-004 | | X | 3 | | 356208 |
| 11/6/19 | 1500 | GW | G | | DPT-003 | | X | 3 | | 356209 |
| 11/6/19 | 1515 | GW | G | | DPT-004 | | X | 3 | | 356210 |

| Relinquished By: | Date/Time | Received By: | Date/Time | Lab Use Only |
|---|---|---|---|---|
| BRUCE NORTH | 11/08/2019 1600 | Fedex | | Ice Present (Yes) No |
| Received by: | Date/Time | Received for Laboratory by: | Date/Time | Temp 2.9 IR Gun 28 |
| for ATJ | 11/9/19 1140 | | 11/11/19 MS | Cooler # 5 Coolers |

E-2897

01014022

Rev. 02/2017

# CHAIN OF CUSTODY

Page 5 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*
149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:* SAME
EMAIL:
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**
DPT-007 expected to be hot

**Matrix:**
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

**Turnaround Time**
Normal RUSH*
Date Needed: _____
*Rush analysis requires prior CT Laboratories' approval*
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | VOC | 1,4-Dioxane | TCLP VOC | TCLP SVOC | TCLP Metals/Hg | TCLP Herbicides | TCLP Pesticides | Ignitability | Corrosivity | Reactivity | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | | | | | | | | | | | |
| 11/6/19 | 1525 | GW | G | | DPT-009 | | X | | | | | | | | | | 3 | | 356211 |
| 11/6/19 | 1540 | GW | G | | DPT-006 | | X | | | | | | | | | | 3 | | 356212 |
| 11/6/19 | 1550 | GW | G | | DPT-007 | | X | | | | | | | | | | 3 | | 356213 |
| 11/7/19 | 0720 | GW | G | | DPT-001 | | X | X | | | | | | | | | 5 | | 356214 |
| 11/7/19 | 0800 | GW | G | | DPT-005 | | X | X | | | | | | | | | 5 | | 356215 |
| 11/7/19 | 0830 | GW | G | | DPT-008 | | X | | | | | | | | | | 3 | | 356216 |
| 11/7/19 | 0840 | GW | G | | DPT-010 | | X | X | | | | | | | | | 5 | | 356217 |
| 11/7/19 | 1030 | S | C | | 46ADPT-TCLP | | | | X | X | X | X | X | X | X | X | 3 | | 356218/219 |
| 11/6/19 | 1600 | W | — | | EB-002 | | X | | | | | | | | | | 3 | | 356220 |
| 11/7/19 | 0915 | GW | G | | DPT-011 | | X | | | | | | | | | | 3 | | 356221 |
| 11/7/19 | 1525 | GW | G | | 47WW09 | | | X | | | | | | | | | 2 | | 356222 |
| 11/8/19 | 0700 | W | — | | EB-003 | | X | X | | | | | | | | | 5 | | 356223 |

Relinquished By: ERIC NORTH
Date/Time: 11/08/2019 1600

Received by: for ATL
Date/Time: 11/9/19 1140

Received By:
Date/Time:

Received for Laboratory by:
Date/Time: 11/11/19 1215

*Lab Use Only*
Ice Present (Yes) No
Temp 2.7 IR Gun 28
Cooler # SCCooler

E-2898

01014023

Rev. 02/2017

# CHAIN OF CUSTODY

Page 6 of 6

Company: HDR
Project Contact: LYNN LUTZ
Telephone: —
Project Name: LHAAP Bldg 46A
Project #: 10097916
Location: LHAAP
Sampled By: EN

CT LABORATORIES
1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

*Lab Use Only*
*Place Header Sticker Here:*
149511

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To:
EMAIL: LYNN.LUTZ@HDRINC.COM
Company: HDR
Address: —

Invoice To:*
EMAIL: SAMB
Company:
Address:

**Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions*

**Client Special Instructions**
47WW25R expected to be hot

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

| Collection Date | Collection Time | Matrix | Grab/ Comp | Sample # | Sample ID Description | Filtered? Y/N | ANALYSES REQUESTED: Voc | ANALYSES REQUESTED: 1,4-Dioxane | Total # Containers | Designated MS/MSD | CT Lab ID # (Lab use only) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Fill in Spaces with Bottles per Test | | | | |
| 11/5/19 | 0915 | GW | G | | 47WW37 | | X | | 3 | | 356224 |
| 11/8/19 | 0800 | GW | G | | DUP-005 | | X | | 3 | | 356225 |
| 11/8/19 | 0830 | GW | G | | DUP-006 | | | X | 2 | | 356226 |
| 11/8/19 | 1040 | GW | G | | 47WW25R-35 | | X | X | 5 | | 356227 |
| 11/8/19 | 1040 | GW | G | | 47WW25R-35MS | | | X | 2 | | 356227 |
| 11/8/19 | 1040 | GW | G | | 47WW25R-35MSD | | | X | 2 | | 356227 |
| 11/8/19 | 1130 | GW | G | | 47WW25R-38 | | X | X | 5 | | 356228 |
| 11/4/19 | 0800 | TB | — | | TB-002 | | X | | 2 | | 356229 |
| 11/4/19 | 0800 | TB | — | | TB-003 | | X | | 2 | | 356230 |

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| ERIC NORTH | 11/08/2019 1600 | | |
| Received by: | Date/Time | Received for Laboratory by: | Date/Time |
| | 11/9/19 1140 | | 11/11/19 1215 |

*Lab Use Only*
Ice Present (Yes) No
Temp 2.9 IR Gun 28
Cooler # 5 coolers

E-2899

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
Page 1 of 1

# Cooler Receipt Form

Ice Present YES NO

Temperature 0.6

IR Gun # 28

Initials AMS

Date 11-9-19 Time 11:40

Cooler #: 6309

# Cooler Receipt Form

Ice Present (YES) NO

Temperature 2.9

IR Gun # 28

Initials ATC

Date 11-9-19 Time 12:30

Cooler #: 5602

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
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# Cooler Receipt Form

Ice Present (YES) NO

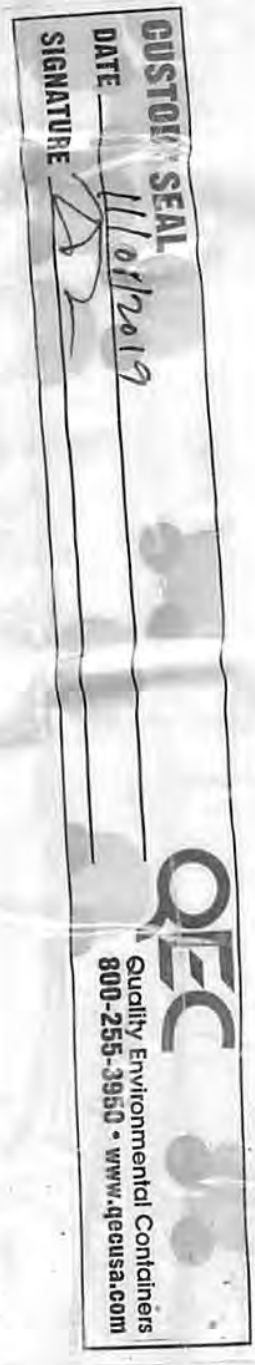
Temperature 2-3

IR Gun # 26

Initials AFS

Date 11-9-19 Time 12:30

Cooler #: G335



01014027

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
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# Cooler Receipt Form

Ice Present (YES) NO

Temperature 1.2

IR Gun # 28

Initials AJS

Date 11-1-19 Time 11:50

Cooler #: 6178

01014028

FORM #: FPM3-02
Rev. #: 1.0
Effective Date: 05/27/2014
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# Cooler Receipt Form

Ice Present (YES) NO

Temperature 1

IR Gun # 28

Initials AHS

Date 11-9-19 Time 11:50

Cooler #: 6310

# DATA VALIDATION REPORT

Volatile Organic Compounds (VOCs) by USEPA SW-846 Method 8260B

**Project:** USACE Longhorn Army Ammunition Plant (LHAAP), Texas Soils – June 2020 – on-site analysis
**Project/Task Number:** 10097916 8.0
**Sample Data Package:** 2908
**Laboratory:** Pace Analytical Mobile Lab Services, Madison, Wisconsin
**Sample Matrix:** Soil and Groundwater
**Sampling Dates:** 02-16 June 2020
**Validation Guidelines:** Project QAPP *(Final Quality Assurance Project Plan for Longhorn Army Ammunition Plant, Karnack, Texas [July 2014]*); United States Environmental Protection Agency (USEPA) *Test Methods for Evaluating Solid Waste, Physical/Chemical Meth*ods, *3rd edition* (SW-846); *National Functional Guidelines for Organic Superfund Data Review (USEPA, September 2016)* and professional judgment
**Validation Level:** Stage 2BVM (100% of data), Stage 3VM (10% of data)
**Data Reviewer:** Lynn K. Lutz, HDR

| Sample ID | Lab ID | Date | Matrix | VOCs |
|---|---|---|---|---|
| 47WW13 | R202301-02 | 5/28/20 | GW | X |
| 47WW14 | R202301-01 | 5/28/20 | GW | X |
| 47WW24 | R202301-06 | 5/29/20 | GW | X |
| 47WW25R | R202301-04 | 5/28/20 | GW | X |
| 47WW37 | R202301-03 | 5/28/20 | GW | X |
| LHSMW50 | R202301-05 | 5/29/20 | GW | X |
| DPT-012 (3-4) | R202309-05 | 6/04/20 | Soil | X |
| DPT-012 (3-4) MS | R202309-05 MS | 6/04/20 | Soil | X |
| DPT-012 (3-4) MSD | R202309-05 MSD | 6/04/20 | Soil | X |
| DPT-012 (7-8) | R202309-08 | 6/04/20 | Soil | X |
| DPT-012 (11-12) | R202309-06 | 6/04/20 | Soil | X |
| DPT-012 (17-18) | R202309-07 | 6/04/20 | Soil | X |
| DPT-012 (33) | R202404-03 | 6/09/20 | GW | X |
| DPT-013 (1-2) | R202309-01 | 6/04/20 | Soil | X |
| DPT-013 (11-12) | R202309-02 | 6/04/20 | Soil | X |
| DPT-013 (17-18) | R202309-03 | 6/04/20 | Soil | X |
| DPT-013 (20-21) | R202309-04 | 6/04/20 | Soil | X |
| DPT-013 (33) | R202404-02 | 6/09/20 | GW | X |
| DPT-014 (3-4) | R202306-10 | 6/03/20 | Soil | X |
| DPT-014 (10-11) | R202306-12 | 6/03/20 | Soil | X |
| DPT-014 (19-20) | R202306-11 | 6/03/20 | Soil | X |
| DPT-014 (25-26) | R202306-13 | 6/03/20 | Soil | X |
| DPT-015 (3-4) | R202306-01 | 6/03/20 | Soil | X |
| DPT-015 (15-16) | R202306-02 | 6/03/20 | Soil | X |
| DPT-015 (19-20) | R202306-03 | 6/03/20 | Soil | X |
| DPT-015 (23-24) | R202306-04 | 6/03/20 | Soil | X |
| DPT-015 (31) | R202308-03 | 6/04/20 | GW | X |
| DPT-015 (50) | R202308-01 | 6/04/20 | GW | X |
| DPT-015 (50) MS | R202308-01 MS | 6/04/20 | GW | X |
| DPT-015 (50) MSD | R202308-01 MSD | 6/04/20 | GW | X |
| DPT-016 (7-8) | R202305-01 | 6/02/20 | Soil | X |

| Sample ID | Lab ID | Date | Matrix | VOCs |
|---|---|---|---|---|
| DPT-016 (13-14) | R202305-02 | 6/02/20 | Soil | X |
| DPT-016 (21-22) | R202305-03 | 6/02/20 | Soil | X |
| DPT-016 (24-25) | R202305-04 | 6/02/20 | Soil | X |
| DPT-016 (24-25) MS | R202305-04 MS | 6/02/20 | Soil | X |
| DPT-016 (24-25) MSD | R202305-04 MSD | 6/02/20 | Soil | X |
| DPT-016 (33) | R202307-02 | 6/03/20 | GW | X |
| DPT-016 (42) | R202307-01 | 6/02/20 | GW | X |
| DPT-017 (10-11) | R202306-05 | 6/03/20 | Soil | X |
| DPT-017 (17-18) | R202306-06 | 6/03/20 | Soil | X |
| DPT-017 (19-20) | R202306-08 | 6/03/20 | Soil | X |
| DPT-017 (23-24) | R202306-07 | 6/03/20 | Soil | X |
| DPT-017 (32) | R202308-05 | 6/04/20 | GW | X |
| DPT-017 (42) | R202308-04 | 6/04/20 | GW | X |
| DPT-018 (7-8) | R202302-01 | 6/01/20 | Soil | X |
| DPT-018 (15-16) | R202302-02 | 6/01/20 | Soil | X |
| DPT-018 (21-22) | R202302-03 | 6/01/20 | Soil | X |
| DPT-018 (32-33) | R202302-04 | 6/01/20 | Soil | X |
| DPT-018 (40) | R202303-02 | 6/02/20 | GW | X |
| DPT-019 (4-5) | R202302-05 | 6/01/20 | Soil | X |
| DPT-019 (8-9) | R202302-06 | 6/01/20 | Soil | X |
| DPT-019 (14-15) | R202302-07 | 6/01/20 | Soil | X |
| DPT-019 (22-23) | R202302-08 | 6/01/20 | Soil | X |
| DPT-019 (36) | R202303-01 | 6/02/20 | GW | X |
| DPT-020 (5-6) | R202309-13 | 6/04/20 | Soil | X |
| DPT-020 (11-12) | R202309-09 | 6/04/20 | Soil | X |
| DPT-020 (14-15) | R202309-11 | 6/04/20 | Soil | X |
| DPT-020 (18-19) | R202309-10 | 6/04/20 | Soil | X |
| DPT-020 (44) | R202311-02 | 6/05/20 | GW | X |
| DPT-021 (6-7) | R202309-14 | 6/04/20 | Soil | X |
| DPT-021 (10-11) | R202309-15 | 6/04/20 | Soil | X |
| DPT-021 (19-20) | R202309-17 | 6/04/20 | Soil | X |
| DPT-021 (23-24) | R202309-18 | 6/04/20 | Soil | X |
| DPT-021 (36) | R202311-01 | 6/05/20 | GW | X |
| DPT-022 (5-6) | R202310-01 | 6/05/20 | Soil | X |
| DPT-022 (8-9) | R202310-03 | 6/05/20 | Soil | X |
| DPT-022 (14-15) | R202310-02 | 6/05/20 | Soil | X |
| DPT-022 (14-15) MS | R202310-02 MS | 6/05/20 | Soil | X |
| DPT-022 (14-15) MSD | R202310-02 MSD | 6/05/20 | Soil | X |
| DPT-022 (20-21) | R202310-04 | 6/05/20 | Soil | X |
| DPT-022 (36) | R202402-01 | 6/06/20 | GW | X |
| DPT-023 (2-3) | R202401-05 | 6/07/20 | Soil | X |
| DPT-023 (4-5) | R202401-06 | 6/07/20 | Soil | X |
| DPT-023 (7-8) | R202401-07 | 6/07/20 | Soil | X |
| DPT-023 (9-10) | R202401-08 | 6/07/20 | Soil | X |
| DPT-023 (42) | R202402-04 | 6/08/20 | GW | X |
| DPT-023 (33) | R202404-04 | 6/09/20 | GW | X |
| DPT-024 (9-10) | R202403-01 | 6/08/20 | Soil | X |
| DPT-024 (13-14) | R202403-03 | 6/08/20 | Soil | X |
| DPT-024 (17-18) | R202403-04 | 6/08/20 | Soil | X |
| DPT-024 (21-22) | R202403-05 | 6/08/20 | Soil | X |
| DPT-024 (33) | R202404-01 | 6/09/20 | GW | X |
| DPT-024 (44) | R202402-05 | 6/08/20 | GW | X |
| DPT-025 (6-7) | R202405-01 | 6/09/20 | Soil | X |
| DPT-025 (11-12) | R202405-02 | 6/09/20 | Soil | X |

| Sample ID | Lab ID | Date | Matrix | VOCs |
|---|---|---|---|---|
| DPT-025 (11-12) MS | R202405-02 MS | 6/09/20 | Soil | X |
| DPT-025 (11-12) MSD | R202405-02 MSD | 6/09/20 | Soil | X |
| DPT-025 (17-18) | R202405-03 | 6/09/20 | Soil | X |
| DPT-025 (22-23) | R202405-04 | 6/09/20 | Soil | X |
| DPT-025 (36) | R202406-01 | 6/10/20 | GW | X |
| DPT-025 (36) MS | R202406-01 MS | 6/10/20 | GW | X |
| DPT-025 (36) MSD | R202406-01 MSD | 6/10/20 | GW | X |
| DPT-026 (3-4) | R202401-01 | 6/07/20 | Soil | X |
| DPT-026 (16-17) | R202401-02 | 6/07/20 | Soil | X |
| DPT-026 (17-18) | R202401-03 | 6/07/20 | Soil | X |
| DPT-026 (26-27) | R202401-04 | 6/07/20 | Soil | X |
| DPT-026 (36) | R202402-03 | 6/08/20 | GW | X |
| DPT-026 (45) | R202402-02 | 6/08/20 | GW | X |
| DPT-027 (2-3) | R202310-07 | 6/05/20 | Soil | X |
| DPT-027 (5-6) | R202310-08 | 6/05/20 | Soil | X |
| DPT-027 (8-9) | R202310-05 | 6/05/20 | Soil | X |
| DPT-027 (11-12) | R202310-06 | 6/05/20 | Soil | X |
| DPT-027 (17-18) | R202408-12 | 6/11/20 | Soil | X |
| DPT-027 (22-23) | R202408-13 | 6/11/20 | Soil | X |
| DPT-027 (33) | R202409-10 | 6/12/20 | GW | X |
| DPT-028 (10-11) | R202407-01 | 6/10/20 | Soil | X |
| DPT-028 (10-11) MS | R202407-01 MS | 6/10/20 | Soil | X |
| DPT-028 (10-11) MSD | R202407-01 MSD | 6/10/20 | Soil | X |
| DPT-028 (13-14) | R202407-02 | 6/10/20 | Soil | X |
| DPT-028 (16-17) | R202407-03 | 6/10/20 | Soil | X |
| DPT-028 (21-22) | R202407-05 | 6/10/20 | Soil | X |
| DPT-028 (48) | R202406-03 | 6/10/20 | GW | X |
| DPT-029 (7-8) | R202408-01 | 6/11/20 | Soil | X |
| DPT-029 (7-8) MS | R202408-01 MS | 6/11/20 | Soil | X |
| DPT-029 (7-8) MSD | R202408-01 MSD | 6/11/20 | Soil | X |
| DPT-029 (13-14) | R202408-03 | 6/11/20 | Soil | X |
| DPT-029 (17-18) | R202408-04 | 6/11/20 | Soil | X |
| DPT-029 (21-22) | R202408-05 | 6/11/20 | Soil | X |
| DPT-029 (34) | R202409-07 | 6/12/20 | GW | X |
| DPT-029 (45) | R202409-05 | 6/12/20 | GW | X |
| DPT-029 (45) MS | R202409-05 MS | 6/12/20 | GW | X |
| DPT-029 (45) MSD | R202409-05 MSD | 6/12/20 | GW | X |
| DPT-030 (10-11) | R202408-07 | 6/11/20 | Soil | X |
| DPT-030 (15-16) | R202408-09 | 6/11/20 | Soil | X |
| DPT-030 (17-18) | R202408-10 | 6/11/20 | Soil | X |
| DPT-030 (19-20) | R202408-11 | 6/11/20 | Soil | X |
| DPT-030 (19-20) MS | R202408-11 MS | 6/11/20 | Soil | X |
| DPT-030 (19-20) MSD | R202408-11 MSD | 6/11/20 | Soil | X |
| DPT-031 (3-4) | R202410-02 | 6/12/20 | Soil | X |
| DPT-031 (12-13) | R202410-01 | 6/12/20 | Soil | X |
| DPT-031 (12-13) MS | R202410-01 MS | 6/12/20 | Soil | X |
| DPT-031 (12-13) MSD | R202410-01 MSD | 6/12/20 | Soil | X |
| DPT-031 (16-17) | R202410-03 | 6/12/20 | Soil | X |
| DPT-031 (21-22) | R202410-04 | 6/12/20 | Soil | X |
| DPT-031 (33) | R202409-09 | 6/12/20 | GW | X |
| DPT-032 (12-13) | R202411-01 | 6/13/20 | Soil | X |
| DPT-032 (15-16) | R202411-02 | 6/13/20 | Soil | X |
| DPT-032 (19-20) | R202411-03 | 6/13/20 | Soil | X |
| DPT-032 (21-22) | R202411-04 | 6/13/20 | Soil | X |

| Sample ID | Lab ID | Date | Matrix | VOCs |
|---|---|---|---|---|
| DPT-032 (35) | R202412-01 | 6/13/20 | GW | X |
| DPT-032 (49.5) | R202412-02 | 6/13/20 | GW | X |
| DPT-033 (8-9) | R202411-05 | 6/13/20 | Soil | X |
| DPT-033 (12-13) | R202411-06 | 6/13/20 | Soil | X |
| DPT-033 (19-20) | R202411-07 | 6/13/20 | Soil | X |
| DPT-033 (22-23) | R202411-08 | 6/13/20 | Soil | X |
| DPT-033 (33) | R202501-02 | 6/14/20 | GW | X |
| DPT-033 (49) | R202501-01 | 6/14/20 | GW | X |
| DPT-034 (8-9) | R202502-01 | 6/14/20 | Soil | X |
| DPT-034 (15-16) | R202502-02 | 6/14/20 | Soil | X |
| DPT-034 (18-19) | R202502-03 | 6/14/20 | Soil | X |
| DPT-034 (22-23) | R202502-04 | 6/14/20 | Soil | X |
| DPT-034 (33) | R202501-03 | 6/14/20 | GW | X |
| DPT-035 (10-11) | R202502-05 | 6/14/20 | Soil | X |
| DPT-035 (15-16) | R202502-06 | 6/14/20 | Soil | X |
| DPT-035 (18-19) | R202502-07 | 6/14/20 | Soil | X |
| DPT-035 (21-22) | R202502-08 | 6/14/20 | Soil | X |
| DPT-035 (33) | R202505-01 | 6/16/20 | GW | X |
| DPT-035 (49.5) | R202503-01 | 6/15/20 | GW | X |
| DPT-036 (11-12) | R202504-01 | 6/15/20 | Soil | X |
| DPT-036 (15-16) | R202504-02 | 6/15/20 | Soil | X |
| DPT-036 (18-19) | R202504-03 | 6/15/20 | Soil | X |
| DPT-036 (21-22) | R202504-04 | 6/15/20 | Soil | X |
| DPT-037 (11-12) | R202504-05 | 6/15/20 | Soil | X |
| DPT-037 (14-15) | R202504-06 | 6/15/20 | Soil | X |
| DPT-037 (18-19) | R202504-07 | 6/15/20 | Soil | X |
| DPT-037 (21-22) | R202504-08 | 6/15/20 | Soil | X |
| DPT-037 (33) | R202505-02 | 6/16/20 | GW | X |
| DPT-038 (11-12) | R202504-09 | 6/15/20 | Soil | X |
| DPT-038 (15-16) | R202504-10 | 6/15/20 | Soil | X |
| DPT-038 (18-19) | R202504-11 | 6/15/20 | Soil | X |
| DPT-038 (22-23) | R202504-12 | 6/15/20 | Soil | X |
| DUP-01 | R202305-05 | 6/02/20 | Soil | X |
| DUP-03 | R202306-09 | 6/03/20 | Soil | X |
| DUP-05 | R202308-02 | 6/04/20 | GW | X |
| DUP-06 | R202309-12 | 6/04/20 | Soil | X |
| DUP-07 | R202309-16 | 6/04/20 | Soil | X |
| DUP-08 | R202403-02 | 6/08/20 | Soil | X |
| DUP-09 | R202403-06 | 6/08/20 | Soil | X |
| DUP-10 | R202406-02 | 6/10/20 | GW | X |
| DUP-11 | R202407-04 | 6/10/20 | Soil | X |
| DUP-12 | R202408-02 | 6/11/20 | Soil | X |
| DUP-13 | R202408-06 | 6/11/20 | Soil | X |
| DUP-14 | R202408-08 | 6/11/20 | Soil | X |
| DUP-15 | R202409-06 | 6/12/20 | GW | X |
| DUP-16 | R202409-08 | 6/12/20 | GW | X |
| EB-01 | R202409-01 | 6/11/20 | QC Water | X |
| EB-02 | R202409-02 | 6/11/20 | QC Water | X |
| EB-03 | R202409-03 | 6/12/20 | QC Water | X |
| EB-04 | R202409-04 | 6/12/20 | QC Water | X |

**SUMMARY**

One hundred percent of the data underwent Stage 2BVM level validation. Ten percent of the data underwent Stage 3VM level validation.

Laboratory data were acceptable with qualification as noted below. No data were rejected. Completeness was 100%, which met the goal of 85% for the project.

## I. SAMPLE RECEIPT / CHAIN OF CUSTODY

The chains of custody (COC) were filled out and signed. Samples were stored in an on-site refrigerator between collection time and analysis time. No qualification was required.

## II. SAMPLES ANALYZED

All planned samples were collected and all scheduled analyses were performed by the on-site lab. Samples were analyzed by USEPA SW-846 Method 8260B. The correct analyte list of eight analytes was reported for soil samples. The analytes were:

| | | | |
|---|---|---|---|
| 1,1-Dichloroethene | cis-1,2-Dichloroethene | Methylene chloride | Trichloroethene |
| 1,1-Dichloroethane | trans-1,2-Dichloroethene | Tetrachloroethene | Vinyl chloride |

An incorrect analyte list of eight analytes was reported for water samples. The reported analytes were:

| | | | |
|---|---|---|---|
| 1,1-Dichloroethene | cis-1,2-Dichloroethene | Methylene chloride | Trichloroethene |
| 1,2-Dichloroethane | trans-1,2-Dichloroethene | Tetrachloroethene | Vinyl chloride |

1,2-Dichloroethane was reported instead of the intended 1,1-dichloroethane. The reported list was confirmed in the project kick-off meeting. This list was accepted.

## III. HOLDING TIMES AND PRESERVATION

All holding time criteria were met. Soil samples collected on June 01, 2020 did not have a separate fraction collected for percent solid determination, and these sample results were reported on a wet-weight basis and have been qualified as estimated with possible low bias (J-) or non-detect estimated (UJ). The other soils had percent solid results ranging from 79% to 95%, with the average of 87%. The results for the soils reported on a wet-weight basis could be 5% to 26.5% higher than reported if they were corrected for percent solid content. These were the samples reported on a wet-weight basis:

| | | | |
|---|---|---|---|
| DPT-018 (7-8) | DPT-018 (15-16) | DPT-018 (21-22) | DPT-018 (32-33) |
| DPT-019 (4-5) | DPT-019 (8-9) | DPT-019 (14-15) | DPT-019 (22-23) |

## IV. BLANKS

### *METHOD BLANKS (MBs)*

One MB had a detection of methylene chloride at 2.0 µg/L. This analyte was non-detect in all samples and no qualification was required.

### *TRIP BLANKS (TBs)*

TBs were not collected, as the samples were analyzed at an on-site lab.

***EQUIPMENT RINSE BLANK***
The eight target VOCs were not detected in the four EBs. No qualification was required.

## V. LABORATORY CONTROL SAMPLES / LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

Recoveries were generally within control limits. Some recoveries of vinyl chloride in the water LCS/LCSDs were 121-126%, above the control limits in the QAPP of 70-120% but within the lab's control limits of 66-141%. Vinyl chloride was non-detect in the samples with these higher recoveries, and no qualification was required.

## VI. MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS/MSD)

These samples were designated on the COCs for MS/MSD analysis:

| Soils | | GWs |
|---|---|---|
| DPT-012 (3-4) | DPT-028 (10-11) | DPT-015 (50) |
| DPT-016 (24-25) | DPT-029 (7-8) | DPT-025 (36) |
| DPT-022 (14-15) | DPT-030 (19-20) | DPT-029 (45) |
| DPT-025 (11-12) | DPT-031 (12-13) | |

Recoveries were generally within control limits. Some recoveries of vinyl chloride in the water sample MS/MSDs were 121-133%, above the control limits in the QAPP of 70-120% but within the lab's control limits of 64-147%. Vinyl chloride was non-detect in the parent samples with these higher recoveries, and no qualification was required.

Trichloroethene in the parent sample DPT-028 (10-11) was greater than four times the spike amount, therefore recoveries were not evaluated. The RPD of 9% was within the control limit of 50% and no qualification was required.

Trichloroethene in MS spike of sample DPT-031 (12-13) was recovered at 151%, above the control limits of 75-125% in the QAPP and the lab's control limits of 63-112%. Trichloroethene in this parent sample has been qualified as estimated (J).

## VII. FIELD DUPLICATES

Field duplicate (FD) samples were collected as shown in the table below. Control limits listed in the QAPP (RPDs less than 25% for waters and less than 50% for soils) were used.

| Field Duplicate Sample | Parent Sample | Field Duplicate Sample | Parent Sample |
|---|---|---|---|
| DUP-01 | DPT-16 (24-25) | DUP-10 | DPT-25 (36) |
| DUP-03 | DPT-17 (19-20) | DUP-11 | DPT-28 (16-17) |
| DUP-05 | DPT-15 (50) | DUP-12 | DPT-29 (7-8) |
| DUP-06 | DPT-20 (14-15) | DUP-13 | DPT-29 (21-22) |
| DUP-07 | DPT-21 (19-20) | DUP-14 | DPT-30 (10-11) |
| DUP-08 | DPT-24 (9-10) | DUP-15 | DPT-29 (45) |
| DUP-09 | DPT-24 (21-22) | DUP-16 | DPT-29 (34) |

*VOCs:* Results were within the control limits except as shown in the table below.

| Parent / FD pair | Analyte | Concentrations | RPD | RPD Control Limit | Qualifier |
|---|---|---|---|---|---|
| DPT-25 (36) DUP-10 | cis-1,2-Dichloroethene | 8.1 / 26 µg/L | 105% | 25% | J / J |
| | Trichloroethene | 660 / 1600 µg/L | 83% | 25% | J / J |

## VIII. LABORATORY DUPLICATES

Laboratory duplicate (LD) analyses were not performed on any samples from this project.

## IX. INSTRUMENT CALIBRATION

### *INITIAL CALIBRATION*

*VOCs:* The calibration curve included a standard at or below the LOQ. Calibration requirements were met. No qualification was required.

### *INITIAL CALIBRATION VERIFICATION (ICV)*

*VOCs:* Vinyl chloride in the ICVs had percent difference (%D) values of +21% to +25%, above the required limit of 20%. Vinyl chloride was non-detect in the samples and no qualification was required.

### *CONTINUING CALIBRATION VERIFICATION (CCV)*

*VOCs:* Some analytes had percent difference (%D) values above the required limit of 20% and the associated samples required qualification as shown in the table below.

| CCV | Analyte | %D | Associated samples | Qualification |
|---|---|---|---|---|
| 6/3/2020 05:14 | Methylene chloride | +41% | -- | None - ND |
| 6/3/2020 09:26 | Methylene chloride | +23% | -- | None - ND |
| 6/14/2020 08:33 | Vinyl chloride | +34% | -- | None - ND |

## X. SURROGATES AND INTERNAL STANDARDS

*VOCs:* Internal standard areas and retention times were within required limits. No qualification was required.

Some surrogate recoveries were within the lab's control limits but outside the narrower limits listed in the QAPP, and sample results were qualified as shown in the table below. Other samples had one surrogate recovery outside control limits and three recoveries within control limits; in these cases, no qualification was required.

| Sample | Surrogate | Recovery | Control Limits | Qualifier |
|---|---|---|---|---|
| DPT-018 (7-8) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 74%<br>83%<br>81% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ / J- |
| DPT-013 (17-18) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 67%<br>77%<br>77% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ / J- |

| Sample | Surrogate | Recovery | Control Limits | Qualifier |
|---|---|---|---|---|
| DPT-012 (17-18) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 70%<br>80%<br>82% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ |
| DPT-020 (11-12) | BFB<br>Toluene-d8 | 75%<br>84% | 85-120%<br>85-115% | All analytes<br>UJ |
| DPT-020 (18-19) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 69%<br>81%<br>84% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ |
| DPT-020 (14-15) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 70%<br>80%<br>81% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ |
| DUP-06 | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 73%<br>83%<br>85% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ / J- |
| DPT-020 (5-6) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 71%<br>79%<br>85% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ |
| DPT-021 (19-20) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 65%<br>71%<br>71% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ |
| DPT-027 (2-3) | BFB<br>Toluene-d8 | 74%<br>84% | 85-120%<br>85-115% | All analytes<br>UJ |
| DPT-026 (17-18) | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 74%<br>82%<br>86% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ |
| DUP-09 | BFB<br>Toluene-d8<br>1,2-DCB-d4 | 57%<br>68%<br>67% | 85-120%<br>85-115%<br>Not listed | All analytes<br>UJ |

## XI. SAMPLE LIMITS OF QUANTITATION (LOQs)

Limits of quantitation (LOQs) should be less than the applicable project action levels (PALs) as listed in the project QAPP.

*VOCs:* Nominal LOQs (before dilutions) were below the PALs listed in the QAPP.

## XII. SAMPLE RESULTS / TRANSCRIPTION VERIFICATION

Transcription between the data package and the EDDs was verified. Results were reported at or above the LOQs.

*VOCs:* No issues.

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July 1, 2020

Lynn Lutz
HDR
9781 S. Meridian Blvd., Suite 400
Englewood, CO 80112

RE: Longhorn Army Ammunition Plant (AAP)

Enclosed are the analytical results for the samples received by the laboratory on the dates listed on the following page(s).

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Ben Claas

Project Manager

| Certification List | | | Expires |
|---|---|---|---|
| DODELAP | DOD ELAP Accreditation (A2LA) | 3269.01 | 03/31/2021 |
| ILEPA | Illinois Secondary NELAP Accreditation | 004366 | 04/30/2021 |
| KDHE | Kansas Secondary NELAP Accreditation | E-10384 | 04/30/2021 |
| LELAP | Louisiana Primary NELAP Accreditation | 04165 | 06/30/2021 |
| NJDEP | New Jersey Secondary NELAP Accreditation | WI004 | 06/30/2020 |
| TCEQ | Texas Secondary NELAP Accreditation | T104704504-16-7 | 11/30/2020 |
| WDNR | Wisconsin Certification under NR 149 | 113289110 | 08/31/2020 |

# Case Narrative

**Data Quality Objectives**
Pace Mobile Lab provided onsite services to support HDR for a soil and groundwater investigation from June 1 through 15, 2020. Water samples were delivered in unpreserved 40 mL VOA vials. Soil samples were delivered in Lock-n-Load sampling containers, with extra volume supplied for total solids determination. HDR requested a custom list of chlorinated volatile organic compounds for each matrix.

**Sample Receipt Information:**
The samples were hand delivered to the on-site mobile laboratory and were received in acceptable condition.

Please see the chain of custodies (COC) document at the end of this report for additional information.

**Hold Time:**
The samples were extracted and analyzed within the method required hold time.

**Sample Preparation and Analysis:**
The samples were prepared and analyzed in accordance with applicable method SOP, ENV-SOP-MAD1-0033.

**Initial Calibration:**
All criteria were within method requirements.

**Continuing Calibration Verification (CCV):**
All criteria were within method requirements.

**Method Blanks:**
The method blanks had no detects, except where noted.

**Laboratory Control Samples (LCSs):**
The LCS had acceptable recoveries for all analytes.

**Matrix Spike / Matrix Spike Duplicates (MS/MSDs):**
The MS/MSDs had acceptable recoveries for all analytes, except where noted.

**Additional Comments:**
The client sample names were modified in the peer review process to achieve a consistent format throughout the project. These changes will be reflected in the final report.

No additional soil volume was provided for the total solids analysis for soils collected on 06/01/2020. These results are reported on an as-is (wet weight) basis.

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| 47WW14 | R202301-01 | Water | 05/28/2020 | 06/02/2020 |
| 47WW13 | R202301-02 | Water | 05/28/2020 | 06/02/2020 |
| 47WW37 | R202301-03 | Water | 05/28/2020 | 06/02/2020 |
| 47WW25R | R202301-04 | Water | 05/28/2020 | 06/02/2020 |
| LHSMW50 | R202301-05 | Water | 05/29/2020 | 06/02/2020 |
| 47WW24 | R202301-06 | Water | 05/29/2020 | 06/02/2020 |
| DPT-018 (7-8) | R202302-01 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-018 (15-16) | R202302-02 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-018 (21-22) | R202302-03 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-018 (32-33) | R202302-04 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-019 (4-5) | R202302-05 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-019 (8-9) | R202302-06 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-019 (14-15) | R202302-07 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-019 (22-23) | R202302-08 | Soil | 06/01/2020 | 06/02/2020 |
| DPT-019 (36) | R202303-01 | Water | 06/02/2020 | 06/02/2020 |
| DPT-018 (40) | R202303-02 | Water | 06/02/2020 | 06/02/2020 |
| DPT-016 (7-8) | R202305-01 | Soil | 06/02/2020 | 06/02/2020 |
| DPT-016 (13-14) | R202305-02 | Soil | 06/02/2020 | 06/02/2020 |
| DPT-016 (21-22) | R202305-03 | Soil | 06/02/2020 | 06/02/2020 |
| DPT-016 (24-25) | R202305-04 | Soil | 06/02/2020 | 06/02/2020 |
| DUP-01 | R202305-05 | Soil | 06/02/2020 | 06/02/2020 |
| DPT-015 (3-4) | R202306-01 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-015 (15-16) | R202306-02 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-015 (19-20) | R202306-03 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-015 (23-24) | R202306-04 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-017 (10-11) | R202306-05 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-017 (17-18) | R202306-06 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-017 (23-24) | R202306-07 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-017 (19-20) | R202306-08 | Soil | 06/03/2020 | 06/03/2020 |
| DUP-03 | R202306-09 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-014 (3-4) | R202306-10 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-014 (19-20) | R202306-11 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-014 (10-11) | R202306-12 | Soil | 06/03/2020 | 06/03/2020 |
| DPT-014 (25-26) | R202306-13 | Soil | 06/03/2020 | 06/03/2020 |

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Project Number: 10097916
Project Manager: Lynn Lutz

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| DPT-016 (42) | R202307-01 | Water | 06/02/2020 | 06/03/2020 |
| DPT-016 (33) | R202307-02 | Water | 06/03/2020 | 06/03/2020 |
| DPT-015 (50) | R202308-01 | Water | 06/04/2020 | 06/04/2020 |
| DUP-05 | R202308-02 | Water | 06/04/2020 | 06/04/2020 |
| DPT-015 (31) | R202308-03 | Water | 06/04/2020 | 06/04/2020 |
| DPT-017 (42) | R202308-04 | Water | 06/04/2020 | 06/04/2020 |
| DPT-017 (32) | R202308-05 | Water | 06/04/2020 | 06/04/2020 |
| DPT-013 (1-2) | R202309-01 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-013 (11-12) | R202309-02 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-013 (17-18) | R202309-03 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-013 (20-21) | R202309-04 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-012 (3-4) | R202309-05 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-012 (11-12) | R202309-06 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-012 (17-18) | R202309-07 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-012 (7-8) | R202309-08 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-020 (11-12) | R202309-09 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-020 (18-19) | R202309-10 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-020 (14-15) | R202309-11 | Soil | 06/04/2020 | 06/04/2020 |
| DUP-06 | R202309-12 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-020 (5-6) | R202309-13 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-021 (6-7) | R202309-14 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-021 (10-11) | R202309-15 | Soil | 06/04/2020 | 06/04/2020 |
| DUP-07 | R202309-16 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-021 (19-20) | R202309-17 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-021 (23-24) | R202309-18 | Soil | 06/04/2020 | 06/04/2020 |
| DPT-022 (5-6) | R202310-01 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-022 (14-15) | R202310-02 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-022 (8-9) | R202310-03 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-022 (20-21) | R202310-04 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-027 (8-9) | R202310-05 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-027 (11-12) | R202310-06 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-027 (2-3) | R202310-07 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-027 (5-6) | R202310-08 | Soil | 06/05/2020 | 06/05/2020 |
| DPT-021 (36) | R202311-01 | Water | 06/05/2020 | 06/05/2020 |

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## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| DPT-020 (44) | R202311-02 | Water | 06/05/2020 | 06/05/2020 |
| DPT-026 (3-4) | R202401-01 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-026 (16-17) | R202401-02 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-026 (17-18) | R202401-03 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-026 (26-27) | R202401-04 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-023 (2-3) | R202401-05 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-023 (4-5) | R202401-06 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-023 (7-8) | R202401-07 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-023 (9-10) | R202401-08 | Soil | 06/07/2020 | 06/08/2020 |
| DPT-022 (36) | R202402-01 | Water | 06/06/2020 | 06/08/2020 |
| DPT-026 (45) | R202402-02 | Water | 06/08/2020 | 06/08/2020 |
| DPT-026 (36) | R202402-03 | Water | 06/08/2020 | 06/08/2020 |
| DPT-023 (42) | R202402-04 | Water | 06/08/2020 | 06/08/2020 |
| DPT-024 (44) | R202402-05 | Water | 06/08/2020 | 06/08/2020 |
| DPT-024 (9-10) | R202403-01 | Soil | 06/08/2020 | 06/08/2020 |
| DUP-08 | R202403-02 | Soil | 06/08/2020 | 06/08/2020 |
| DPT-024 (13-14) | R202403-03 | Soil | 06/08/2020 | 06/08/2020 |
| DPT-024 (17-18) | R202403-04 | Soil | 06/08/2020 | 06/08/2020 |
| DPT-024 (21-22) | R202403-05 | Soil | 06/08/2020 | 06/08/2020 |
| DUP-09 | R202403-06 | Soil | 06/08/2020 | 06/08/2020 |
| DPT-024 (33) | R202404-01 | Water | 06/09/2020 | 06/09/2020 |
| DPT-013 (33) | R202404-02 | Water | 06/09/2020 | 06/09/2020 |
| DPT-012 (33) | R202404-03 | Water | 06/09/2020 | 06/09/2020 |
| DPT-023 (33) | R202404-04 | Water | 06/09/2020 | 06/09/2020 |
| DPT-025 (6-7) | R202405-01 | Soil | 06/09/2020 | 06/09/2020 |
| DPT-025 (11-12) | R202405-02 | Soil | 06/09/2020 | 06/09/2020 |
| DPT-025 (17-18) | R202405-03 | Soil | 06/09/2020 | 06/09/2020 |
| DPT-025 (22-23) | R202405-04 | Soil | 06/09/2020 | 06/09/2020 |
| DPT-025 (36) | R202406-01 | Water | 06/10/2020 | 06/10/2020 |
| DUP-10 | R202406-02 | Water | 06/10/2020 | 06/10/2020 |
| DPT-028 (48) | R202406-03 | Water | 06/10/2020 | 06/10/2020 |
| DPT-028 (10-11) | R202407-01 | Soil | 06/10/2020 | 06/10/2020 |
| DPT-028 (13-14) | R202407-02 | Soil | 06/10/2020 | 06/10/2020 |
| DPT-028 (16-17) | R202407-03 | Soil | 06/10/2020 | 06/10/2020 |

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## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| DUP-011 | R202407-04 | Soil | 06/10/2020 | 06/10/2020 |
| DPT-028 (21-22) | R202407-05 | Soil | 06/10/2020 | 06/10/2020 |
| DPT-029 (7-8) | R202408-01 | Soil | 06/11/2020 | 06/11/2020 |
| DUP-12 | R202408-02 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-029 (13-14) | R202408-03 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-029 (17-18) | R202408-04 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-029 (21-22) | R202408-05 | Soil | 06/11/2020 | 06/11/2020 |
| DUP-13 | R202408-06 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-030 (10-11) | R202408-07 | Soil | 06/11/2020 | 06/11/2020 |
| DUP-14 | R202408-08 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-030 (15-16) | R202408-09 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-030 (17-18) | R202408-10 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-030 (19-20) | R202408-11 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-027 (17-18) | R202408-12 | Soil | 06/11/2020 | 06/11/2020 |
| DPT-027 (22-23) | R202408-13 | Soil | 06/11/2020 | 06/11/2020 |
| EB-01 | R202409-01 | Water | 06/11/2020 | 06/11/2020 |
| EB-02 | R202409-02 | Water | 06/11/2020 | 06/11/2020 |
| EB-03 | R202409-03 | Water | 06/12/2020 | 06/12/2020 |
| EB-04 | R202409-04 | Water | 06/12/2020 | 06/12/2020 |
| DPT-029 (45) | R202409-05 | Water | 06/12/2020 | 06/12/2020 |
| DUP-15 | R202409-06 | Water | 06/12/2020 | 06/12/2020 |
| DPT-029 (34) | R202409-07 | Water | 06/12/2020 | 06/12/2020 |
| DUP-16 | R202409-08 | Water | 06/12/2020 | 06/12/2020 |
| DPT-031 (33) | R202409-09 | Water | 06/12/2020 | 06/12/2020 |
| DPT-027 (33) | R202409-10 | Water | 06/12/2020 | 06/12/2020 |
| DPT-031 (12-13) | R202410-01 | Soil | 06/12/2020 | 06/12/2020 |
| DPT-031 (3-4) | R202410-02 | Soil | 06/12/2020 | 06/12/2020 |
| DPT-031 (16-17) | R202410-03 | Soil | 06/12/2020 | 06/12/2020 |
| DPT-031 (21-22) | R202410-04 | Soil | 06/12/2020 | 06/12/2020 |
| DPT-032 (12-13) | R202411-01 | Soil | 06/13/2020 | 06/13/2020 |
| DPT-032 (15-16) | R202411-02 | Soil | 06/13/2020 | 06/13/2020 |
| DPT-032 (19-20) | R202411-03 | Soil | 06/13/2020 | 06/13/2020 |
| DPT-032 (21-22) | R202411-04 | Soil | 06/13/2020 | 06/13/2020 |
| DPT-033 (8-9) | R202411-05 | Soil | 06/13/2020 | 06/13/2020 |

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## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| DPT-033 (12-13) | R202411-06 | Soil | 06/13/2020 | 06/13/2020 |
| DPT-033 (19-20) | R202411-07 | Soil | 06/13/2020 | 06/13/2020 |
| DPT-033 (22-23) | R202411-08 | Soil | 06/13/2020 | 06/13/2020 |
| DPT-032 (35) | R202412-01 | Water | 06/13/2020 | 06/13/2020 |
| DPT-032 (49.5) | R202412-02 | Water | 06/13/2020 | 06/13/2020 |
| DPT-033 (049) | R202501-01 | Water | 06/14/2020 | 06/14/2020 |
| DPT-033 (033) | R202501-02 | Water | 06/14/2020 | 06/14/2020 |
| DPT-034 (033) | R202501-03 | Water | 06/14/2020 | 06/14/2020 |
| DPT-034 (8-9) | R202502-01 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-034 (15-16) | R202502-02 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-034 (18-19) | R202502-03 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-034 (22-23) | R202502-04 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-035 (10-11) | R202502-05 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-035 (15-16) | R202502-06 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-035 (18-19) | R202502-07 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-035 (21-22) | R202502-08 | Soil | 06/14/2020 | 06/14/2020 |
| DPT-035 (49.5) | R202503-01 | Water | 06/15/2020 | 06/15/2020 |
| DPT-036 (11-12) | R202504-01 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-036 (15-16) | R202504-02 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-036 (18-19) | R202504-03 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-036 (21-22) | R202504-04 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-037 (11-12) | R202504-05 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-037 (14-15) | R202504-06 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-037 (18-19) | R202504-07 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-037 (21-22) | R202504-08 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-038 (11-12) | R202504-09 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-038 (15-16) | R202504-10 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-038 (18-19) | R202504-11 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-038 (22-23) | R202504-12 | Soil | 06/15/2020 | 06/15/2020 |
| DPT-035 (33) | R202505-01 | Water | 06/16/2020 | 06/16/2020 |
| DPT-037 (33) | R202505-02 | Water | 06/16/2020 | 06/16/2020 |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**47WW14**

**R202301-01 (Water)**

**Date Sampled**
**05/28/2020 14:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Pace Analytical - Lab #20** | | | | | | | | |
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006002** | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:08 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:08 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **60** | 2.5 | ug/L | 5 | 06/02/2020 | 06/05/2020 16:43 | EPA 8260B | D |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:08 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:08 | EPA 8260B | |
| **trans-1,2-Dichloroethene** | **8.2** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:08 | EPA 8260B | |
| **Trichloroethene** | **37** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:08 | EPA 8260B | |
| **Vinyl chloride** | **0.80** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:08 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.9 %* | | *82.5-107* | *06/02/2020* | *06/04/2020 00:08* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.9 %* | | *78.3-109* | *06/02/2020* | *06/04/2020 00:08* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *100 %* | | *80-120* | *06/02/2020* | *06/04/2020 00:08* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**47WW13**

**R202301-02 (Water)**

**Date Sampled**
**05/28/2020 15:30**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **0.81** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:35 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:35 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **170** | 5.0 | ug/L | 10 | 06/02/2020 | 06/05/2020 17:14 | EPA 8260B | D |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:35 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:35 | EPA 8260B | |
| **trans-1,2-Dichloroethene** | **1.3** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:35 | EPA 8260B | |
| **Trichloroethene** | **120** | 5.0 | ug/L | 10 | 06/02/2020 | 06/05/2020 17:14 | EPA 8260B | D |
| **Vinyl chloride** | **4.0** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 00:35 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.2 %* | | *82.5-107* | *06/02/2020* | *06/04/2020 00:35* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.3 %* | | *78.3-109* | *06/02/2020* | *06/04/2020 00:35* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *98.8 %* | | *80-120* | *06/02/2020* | *06/04/2020 00:35* | *EPA 8260B* | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**47WW37**

**R202301-03 (Water)**

**Date Sampled**
**05/28/2020 16:30**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:02 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:02 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **12** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:02 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:02 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:02 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:02 | EPA 8260B | |
| **Trichloroethene** | **180** | 5.0 | ug/L | 10 | 06/02/2020 | 06/05/2020 17:45 | EPA 8260B | D |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:02 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.1 %* | | *82.5-107* | *06/02/2020* | *06/04/2020 01:02* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.7 %* | | *78.3-109* | *06/02/2020* | *06/04/2020 01:02* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *101 %* | | *80-120* | *06/02/2020* | *06/04/2020 01:02* | *EPA 8260B* | |

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**47WW25R**

**R202301-04 (Water)**

**Date Sampled**
**05/28/2020 17:20**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **14** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:29 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:29 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **2500** | 500 | ug/L | 1000 | 06/02/2020 | 06/05/2020 18:19 | EPA 8260B | D |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:29 | EPA 8260B | |
| **Tetrachloroethene** | **0.90** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:29 | EPA 8260B | |
| **trans-1,2-Dichloroethene** | **7.8** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:29 | EPA 8260B | |
| **Trichloroethene** | **120000** | 2500 | ug/L | 5000 | 06/02/2020 | 06/07/2020 12:08 | EPA 8260B | D |
| **Vinyl chloride** | **25** | 0.50 | ug/L | 1 | 06/02/2020 | 06/04/2020 01:29 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.2 %* | | *82.5-107* | *06/02/2020* | *06/04/2020 01:29* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.7 %* | | *78.3-109* | *06/02/2020* | *06/04/2020 01:29* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.5 %* | | *80-120* | *06/02/2020* | *06/04/2020 01:29* | *EPA 8260B* | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**LHSMW50**

**R202301-05 (Water)**

**Date Sampled**
**05/29/2020 07:35**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| **Trichloroethene** | **0.60** | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:21 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.5 %* | | *82.5-107* | *06/02/2020* | *06/05/2020 12:21* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.2 %* | | *78.3-109* | *06/02/2020* | *06/05/2020 12:21* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.0 %* | | *80-120* | *06/02/2020* | *06/05/2020 12:21* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**47WW24**

**R202301-06 (Water)**

**Date Sampled**
**05/29/2020 08:35**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/05/2020 12:49 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.7 %* | | *82.5-107* | *06/02/2020* | *06/05/2020 12:49* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.7 %* | | *78.3-109* | *06/02/2020* | *06/05/2020 12:49* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.9 %* | | *80-120* | *06/02/2020* | *06/05/2020 12:49* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-018 (7-8)**

**R202302-01 (Soil)**

**Date Sampled**
**06/01/2020 15:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006001** | | | |
| 1,1-Dichloroethane | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| Methylene chloride | ND | 96 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| Tetrachloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| **Trichloroethene** | **210** | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| Vinyl chloride | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 19:36 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *83.4 %* | | *61.9-110* | *06/02/2020* | *06/02/2020 19:36* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *74.3 %* | | *59.1-115* | *06/02/2020* | *06/02/2020 19:36* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *80.6 %* | | *80-120* | *06/02/2020* | *06/02/2020 19:36* | *EPA 8260B* | |

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**DPT-018 (15-16)**

**R202302-02 (Soil)**

**Date Sampled**
**06/01/2020 15:15**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006001**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | 30 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| **Trichloroethene** | **470** | 30 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:27 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.2 %* | | *61.9-110* | *06/02/2020* | *06/02/2020 21:27* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.4 %* | | *59.1-115* | *06/02/2020* | *06/02/2020 21:27* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.8 %* | | *80-120* | *06/02/2020* | *06/02/2020 21:27* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-018 (21-22)**

**R202302-03 (Soil)**

**Date Sampled**
**06/01/2020 15:25**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006001** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| **Trichloroethene** | **58** | 31 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 21:55 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.9 %* | | *61.9-110* | *06/02/2020* | *06/02/2020 21:55* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.6 %* | | *59.1-115* | *06/02/2020* | *06/02/2020 21:55* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.7 %* | | *80-120* | *06/02/2020* | *06/02/2020 21:55* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-018 (32-33)**

**R202302-04 (Soil)**

**Date Sampled**
**06/01/2020 16:05**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006001**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | 27 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:23 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:23 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **480** | 27 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:23 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:23 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:23 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:23 | EPA 8260B | |
| **Trichloroethene** | **15000** | 540 | ug/kg wet | 20 | 06/02/2020 | 06/03/2020 13:46 | EPA 8260B | D |
| Vinyl chloride | ND | 27 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:23 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.2 %* | | *61.9-110* | *06/02/2020* | *06/02/2020 22:23* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.4 %* | | *59.1-115* | *06/02/2020* | *06/02/2020 22:23* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.9 %* | | *80-120* | *06/02/2020* | *06/02/2020 22:23* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-019 (4-5)**

**R202302-05 (Soil)**

**Date Sampled**
**06/01/2020 09:55**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006001**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | 29 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| **Trichloroethene** | **30** | 29 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 22:50 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.2 %* | | *61.9-110* | *06/02/2020* | *06/02/2020 22:50* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.3 %* | | *59.1-115* | *06/02/2020* | *06/02/2020 22:50* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.9 %* | | *80-120* | *06/02/2020* | *06/02/2020 22:50* | *EPA 8260B* | |

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**DPT-019 (8-9)**

**R202302-06 (Soil)**

**Date Sampled**
**06/01/2020 10:15**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006001** | | | |
| 1,1-Dichloroethane | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| Methylene chloride | ND | 97 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| Tetrachloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| **Trichloroethene** | **48** | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| Vinyl chloride | ND | 24 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:17 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.9 %* | | *61.9-110* | *06/02/2020* | *06/02/2020 23:17* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.2 %* | | *59.1-115* | *06/02/2020* | *06/02/2020 23:17* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.4 %* | | *80-120* | *06/02/2020* | *06/02/2020 23:17* | *EPA 8260B* | |

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**DPT-019 (14-15)**

**R202302-07 (Soil)**

**Date Sampled**
**06/01/2020 10:55**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006001**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | 26 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| **Trichloroethene** | **70** | 26 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg wet | 1 | 06/02/2020 | 06/02/2020 23:45 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.5 %* | | *61.9-110* | *06/02/2020* | *06/02/2020 23:45* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.7 %* | | *59.1-115* | *06/02/2020* | *06/02/2020 23:45* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.1 %* | | *80-120* | *06/02/2020* | *06/02/2020 23:45* | *EPA 8260B* | |

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**DPT-019 (22-23)**

**R202302-08 (Soil)**

**Date Sampled**
**06/01/2020 13:05**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006001**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | 32 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 32 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| Trichloroethene | ND | 32 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| Vinyl chloride | ND | 32 | ug/kg wet | 1 | 06/02/2020 | 06/03/2020 00:12 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.7 %* | | *61.9-110* | *06/02/2020* | *06/03/2020 00:12* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.4 %* | | *59.1-115* | *06/02/2020* | *06/03/2020 00:12* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *98.6 %* | | *80-120* | *06/02/2020* | *06/03/2020 00:12* | *EPA 8260B* | |

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**DPT-019 (36)**

**R202303-01 (Water)**

**Date Sampled**
**06/02/2020 06:50**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/03/2020 18:08 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/03/2020 18:08 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **3.1** | 0.50 | ug/L | 1 | 06/02/2020 | 06/03/2020 18:08 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/02/2020 | 06/03/2020 18:08 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/03/2020 18:08 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/03/2020 18:08 | EPA 8260B | |
| **Trichloroethene** | **170** | 5.0 | ug/L | 10 | 06/02/2020 | 06/05/2020 00:45 | EPA 8260B | D |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/02/2020 | 06/03/2020 18:08 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.3 %* | | *82.5-107* | *06/02/2020* | *06/03/2020 18:08* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.7 %* | | *78.3-109* | *06/02/2020* | *06/03/2020 18:08* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.0 %* | | *80-120* | *06/02/2020* | *06/03/2020 18:08* | *EPA 8260B* | |

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**DPT-018 (40)**

**R202303-02 (Water)**

**Date Sampled**
**06/02/2020 07:10**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/02/2020 | 06/03/2020 18:36 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/02/2020 | 06/03/2020 18:36 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **1400** | 100 | ug/L | 200 | 06/02/2020 | 06/03/2020 18:36 | EPA 8260B | D |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/02/2020 | 06/03/2020 18:36 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/02/2020 | 06/03/2020 18:36 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/02/2020 | 06/03/2020 18:36 | EPA 8260B | |
| **Trichloroethene** | **41000** | 1000 | ug/L | 2000 | 06/02/2020 | 06/05/2020 05:46 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/02/2020 | 06/03/2020 18:36 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.3 %* | | *82.5-107* | *06/02/2020* | *06/03/2020 18:36* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.4 %* | | *78.3-109* | *06/02/2020* | *06/03/2020 18:36* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.3 %* | | *80-120* | *06/02/2020* | *06/03/2020 18:36* | *EPA 8260B* | |

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**DPT-016 (7-8)**

**R202305-01 (Soil)**

**Date Sampled**
**06/02/2020 10:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006001** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:02 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *103 %* | | *61.9-110* | *06/02/2020* | *06/03/2020 02:02* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *95.2 %* | | *59.1-115* | *06/02/2020* | *06/03/2020 02:02* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *105 %* | | *80-120* | *06/02/2020* | *06/03/2020 02:02* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006003** | | | |
| **% Solids** | **88.0** | 0.00 | % by Weight | 1 | 06/02/2020 | 06/03/2020 07:45 | SM 2540B | |

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**DPT-016 (13-14)**

**R202305-02 (Soil)**

**Date Sampled**
**06/02/2020 10:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006001** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:30 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *85.0 %* | | *61.9-110* | *06/02/2020* | *06/03/2020 02:30* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *77.4 %* | | *59.1-115* | *06/02/2020* | *06/03/2020 02:30* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.8 %* | | *80-120* | *06/02/2020* | *06/03/2020 02:30* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006003** | | | |
| **% Solids** | **84.9** | 0.00 | % by Weight | 1 | 06/02/2020 | 06/03/2020 07:45 | SM 2540B | |

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**DPT-016 (21-22)**

**R202305-03 (Soil)**

**Date Sampled**
**06/02/2020 10:15**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Pace Analytical - Lab #20** | | | | | | | | |
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | | **Preparation Batch: R006001** | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 02:57 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *104 %* | | *61.9-110* | *06/02/2020* | *06/03/2020 12:48* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *90.1 %* | | *59.1-115* | *06/02/2020* | *06/03/2020 12:48* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *105 %* | | *80-120* | *06/02/2020* | *06/03/2020 12:48* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | | **Preparation Batch: R006003** | | |
| **% Solids** | **90.0** | 0.00 | % by Weight | 1 | 06/02/2020 | 06/03/2020 07:45 | SM 2540B | |

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**DPT-016 (24-25)**

**R202305-04 (Soil)**

**Date Sampled**
**06/02/2020 10:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006001** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 03:25 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *101 %* | | *61.9-110* | *06/02/2020* | *06/03/2020 03:25* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *93.9 %* | | *59.1-115* | *06/02/2020* | *06/03/2020 03:25* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *106 %* | | *80-120* | *06/02/2020* | *06/03/2020 03:25* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006003** | | | |
| **% Solids** | **83.1** | 0.00 | % by Weight | 1 | 06/02/2020 | 06/03/2020 07:45 | SM 2540B | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DUP-01**

**R202305-05 (Soil)**

**Date Sampled**
**06/02/2020 10:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006001** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/02/2020 | 06/03/2020 01:35 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *108 %* | | *61.9-110* | *06/02/2020* | *06/03/2020 01:35* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *98.6 %* | | *59.1-115* | *06/02/2020* | *06/03/2020 01:35* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *112 %* | | *80-120* | *06/02/2020* | *06/03/2020 01:35* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006003** | | | |
| **% Solids** | **82.8** | 0.00 | % by Weight | 1 | 06/02/2020 | 06/03/2020 07:45 | SM 2540B | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-015 (3-4)**

**R202306-01 (Soil)**

**Date Sampled**
**06/03/2020 07:40**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| **Trichloroethene** | **100** | 29 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 15:42 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.0 %* | | *61.9-110* | *06/03/2020* | *06/03/2020 15:42* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *90.1 %* | | *59.1-115* | *06/03/2020* | *06/03/2020 15:42* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.5 %* | | *80-120* | *06/03/2020* | *06/03/2020 15:42* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **83.3** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-015 (15-16)**

**R202306-02 (Soil)**

**Date Sampled**
**06/03/2020 07:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:11 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *98.9 %* | | *61.9-110* | *06/03/2020* | *06/03/2020 16:11* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.8 %* | | *59.1-115* | *06/03/2020* | *06/03/2020 16:11* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.8 %* | | *80-120* | *06/03/2020* | *06/03/2020 16:11* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **88.7** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-015 (19-20)**

**R202306-03 (Soil)**

**Date Sampled**
**06/03/2020 08:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 16:40 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *109 %* | | *61.9-110* | *06/03/2020* | *06/03/2020 16:40* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *96.8 %* | | *59.1-115* | *06/03/2020* | *06/03/2020 16:40* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *110 %* | | *80-120* | *06/03/2020* | *06/03/2020 16:40* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **91.5** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-015 (23-24)**

**R202306-04 (Soil)**

**Date Sampled**
**06/03/2020 09:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| **Trichloroethene** | **210** | 30 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 17:10 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *87.2 %* | | *61.9-110* | *06/03/2020* | *06/03/2020 17:10* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *74.9 %* | | *59.1-115* | *06/03/2020* | *06/03/2020 17:10* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.0 %* | | *80-120* | *06/03/2020* | *06/03/2020 17:10* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **80.9** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-017 (10-11)**
**R202306-05 (Soil)**

**Date Sampled**
**06/03/2020 13:40**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 21:51 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *121 %* | | *61.9-110* | *06/03/2020* | *06/03/2020 21:51* | *EPA 8260B* | *S* |
| *Surrogate: 4-Bromofluorobenzene* | | *104 %* | | *59.1-115* | *06/03/2020* | *06/03/2020 21:51* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *120 %* | | *80-120* | *06/03/2020* | *06/03/2020 21:51* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **92.1** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-017 (17-18)**

**R202306-06 (Soil)**

**Date Sampled**
**06/03/2020 13:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 09:34 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.8 %* | | *61.9-110* | *06/03/2020* | *06/04/2020 09:34* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.9 %* | | *59.1-115* | *06/03/2020* | *06/04/2020 09:34* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.0 %* | | *80-120* | *06/03/2020* | *06/04/2020 09:34* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **92.9** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-017 (23-24)**

**R202306-07 (Soil)**

**Date Sampled**
**06/03/2020 14:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **32** | 27 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| **Trichloroethene** | **730** | 27 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 22:46 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.8 %* | | *61.9-110* | *06/03/2020* | *06/03/2020 22:46* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.3 %* | | *59.1-115* | *06/03/2020* | *06/03/2020 22:46* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.0 %* | | *80-120* | *06/03/2020* | *06/03/2020 22:46* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **85.9** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-017 (19-20)**

**R202306-08 (Soil)**

**Date Sampled**
**06/03/2020 14:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:02 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *98.4 %* | | *61.9-110* | *06/03/2020* | *06/04/2020 10:02* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.1 %* | | *59.1-115* | *06/03/2020* | *06/04/2020 10:02* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.2 %* | | *80-120* | *06/03/2020* | *06/04/2020 10:02* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **92.7** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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**DUP-03**

**R202306-09 (Soil)**

**Date Sampled**
**06/03/2020 08:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/03/2020 | 06/03/2020 23:40 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *98.2 %* | | *61.9-110* | *06/03/2020* | *06/03/2020 23:40* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.9 %* | | *59.1-115* | *06/03/2020* | *06/03/2020 23:40* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.3 %* | | *80-120* | *06/03/2020* | *06/03/2020 23:40* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **92.1** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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**DPT-014 (3-4)**

**R202306-10 (Soil)**

**Date Sampled**
**06/03/2020 15:40**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 37 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 37 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 37 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| Methylene chloride | ND | 150 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| Tetrachloroethene | ND | 37 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 37 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| Trichloroethene | ND | 37 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| Vinyl chloride | ND | 37 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:30 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.0 %* | | *61.9-110* | *06/03/2020* | *06/04/2020 10:30* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.5 %* | | *59.1-115* | *06/03/2020* | *06/04/2020 10:30* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.4 %* | | *80-120* | *06/03/2020* | *06/04/2020 10:30* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **80.7** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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**DPT-014 (19-20)**

**R202306-11 (Soil)**

**Date Sampled**
**06/03/2020 15:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 10:58 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *98.8 %* | | *61.9-110* | *06/03/2020* | *06/04/2020 10:58* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.9 %* | | *59.1-115* | *06/03/2020* | *06/04/2020 10:58* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.7 %* | | *80-120* | *06/03/2020* | *06/04/2020 10:58* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **90.1** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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**DPT-014 (10-11)**

**R202306-12 (Soil)**

**Date Sampled**
**06/03/2020 16:20**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| Trichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:27 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.5 %* | | *61.9-110* | *06/03/2020* | *06/04/2020 11:27* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.4 %* | | *59.1-115* | *06/03/2020* | *06/04/2020 11:27* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *101 %* | | *80-120* | *06/03/2020* | *06/04/2020 11:27* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **89.9** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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**DPT-014 (25-26)**

**R202306-13 (Soil)**

**Date Sampled**
**06/03/2020 16:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006004** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **41** | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| **Trichloroethene** | **630** | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/03/2020 | 06/04/2020 11:55 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *99.4 %* | | *61.9-110* | *06/03/2020* | *06/04/2020 11:55* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.6 %* | | *59.1-115* | *06/03/2020* | *06/04/2020 11:55* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.1 %* | | *80-120* | *06/03/2020* | *06/04/2020 11:55* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006005** | | | |
| **% Solids** | **91.4** | 0.00 | % by Weight | 1 | 06/03/2020 | 06/04/2020 07:38 | SM 2540B | |

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**DPT-016 (42)**

**R202307-01 (Water)**

**Date Sampled**
**06/02/2020 14:40**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 14:15 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.6 %* | | *82.5-107* | *06/03/2020* | *06/03/2020 14:15* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.2 %* | | *78.3-109* | *06/03/2020* | *06/03/2020 14:15* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.2 %* | | *80-120* | *06/03/2020* | *06/03/2020 14:15* | *EPA 8260B* | |

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**DPT-016 (33)**

**R202307-02 (Water)**

**Date Sampled**
**06/03/2020 07:00**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006002**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/03/2020 | 06/03/2020 17:39 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.2 %* | | *82.5-107* | *06/03/2020* | *06/03/2020 17:39* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.0 %* | | *78.3-109* | *06/03/2020* | *06/03/2020 17:39* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *98.6 %* | | *80-120* | *06/03/2020* | *06/03/2020 17:39* | *EPA 8260B* | |

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**DPT-015 (50)**

**R202308-01 (Water)**

**Date Sampled**
**06/04/2020 06:30**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006006**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| **Trichloroethene** | **1.4** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:24 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.7 %* | | *82.5-107* | *06/04/2020* | *06/04/2020 12:24* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.2 %* | | *78.3-109* | *06/04/2020* | *06/04/2020 12:24* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.8 %* | | *80-120* | *06/04/2020* | *06/04/2020 12:24* | *EPA 8260B* | |

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**DUP-05**

**R202308-02 (Water)**

**Date Sampled**
**06/04/2020 07:05**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006006**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| **Trichloroethene** | **1.5** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 17:18 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.6 %* | | *82.5-107* | *06/04/2020* | *06/04/2020 17:18* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.1 %* | | *78.3-109* | *06/04/2020* | *06/04/2020 17:18* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.9 %* | | *80-120* | *06/04/2020* | *06/04/2020 17:18* | *EPA 8260B* | |

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**DPT-015 (31)**

**R202308-03 (Water)**

**Date Sampled**
**06/04/2020 07:10**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006006**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:54 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:54 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **5.0** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:54 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:54 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:54 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:54 | EPA 8260B | |
| **Trichloroethene** | **240** | 5.0 | ug/L | 10 | 06/04/2020 | 06/05/2020 13:18 | EPA 8260B | D |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 12:54 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.0 %* | | *82.5-107* | *06/04/2020* | *06/04/2020 12:54* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.4 %* | | *78.3-109* | *06/04/2020* | *06/04/2020 12:54* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.0 %* | | *80-120* | *06/04/2020* | *06/04/2020 12:54* | *EPA 8260B* | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-017 (42)**

**R202308-04 (Water)**

**Date Sampled**
**06/04/2020 07:15**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006006**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **7.8** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:23 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:23 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **680** | 500 | ug/L | 1000 | 06/04/2020 | 06/05/2020 13:47 | EPA 8260B | D |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:23 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:23 | EPA 8260B | |
| **trans-1,2-Dichloroethene** | **1.8** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:23 | EPA 8260B | |
| **Trichloroethene** | **6300** | 500 | ug/L | 1000 | 06/04/2020 | 06/05/2020 13:47 | EPA 8260B | D |
| **Vinyl chloride** | **2.4** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:23 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.8 %* | | *82.5-107* | *06/04/2020* | *06/04/2020 13:23* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.4 %* | | *78.3-109* | *06/04/2020* | *06/04/2020 13:23* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.3 %* | | *80-120* | *06/04/2020* | *06/04/2020 13:23* | *EPA 8260B* | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-017 (32)**

**R202308-05 (Water)**

**Date Sampled**
**06/04/2020 07:20**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006006**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **20** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:52 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:52 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **2200** | 500 | ug/L | 1000 | 06/04/2020 | 06/05/2020 14:16 | EPA 8260B | D |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:52 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:52 | EPA 8260B | |
| **trans-1,2-Dichloroethene** | **5.4** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:52 | EPA 8260B | |
| **Trichloroethene** | **23000** | 500 | ug/L | 1000 | 06/04/2020 | 06/05/2020 14:16 | EPA 8260B | D |
| **Vinyl chloride** | **37** | 0.50 | ug/L | 1 | 06/04/2020 | 06/04/2020 13:52 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.0 %* | | *82.5-107* | *06/04/2020* | *06/04/2020 13:52* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.5 %* | | *78.3-109* | *06/04/2020* | *06/04/2020 13:52* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.4 %* | | *80-120* | *06/04/2020* | *06/04/2020 13:52* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-013 (1-2)**

**R202309-01 (Soil)**

**Date Sampled**
**06/04/2020 07:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| Trichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:27 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.2 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 10:27* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *78.4 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 10:27* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *91.6 %* | | *80-120* | *06/04/2020* | *06/05/2020 10:27* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **81.7** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-013 (11-12)**

**R202309-02 (Soil)**

**Date Sampled**
**06/04/2020 08:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 23 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| Methylene chloride | ND | 93 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| Tetrachloroethene | ND | 23 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| **Trichloroethene** | **56** | 23 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| Vinyl chloride | ND | 23 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 10:55 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.2 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 10:55* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.0 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 10:55* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.4 %* | | *80-120* | *06/04/2020* | *06/05/2020 10:55* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **88.6** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-013 (17-18)**

**R202309-03 (Soil)**

**Date Sampled**
**06/04/2020 08:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| **Trichloroethene** | **41** | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:24 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *77.1 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 11:24* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *67.2 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 11:24* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *76.8 %* | | *80-120* | *06/04/2020* | *06/05/2020 11:24* | *EPA 8260B* | *S* |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **87.4** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-013 (20-21)**

**R202309-04 (Soil)**

**Date Sampled**
**06/04/2020 08:35**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **62** | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| **Trichloroethene** | **500** | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 11:52 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.8 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 11:52* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.4 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 11:52* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *99.5 %* | | *80-120* | *06/04/2020* | *06/05/2020 11:52* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **79.4** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-012 (3-4)**

**R202309-05 (Soil)**

**Date Sampled**
**06/04/2020 09:20**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 17:49 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *87.1 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 17:49* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *78.5 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 17:49* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.5 %* | | *80-120* | *06/04/2020* | *06/04/2020 17:49* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **86.2** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-012 (11-12)**

**R202309-06 (Soil)**

**Date Sampled**
**06/04/2020 09:25**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| Tetrachloroethene | ND | 25 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| Trichloroethene | ND | 25 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| Vinyl chloride | ND | 25 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:18 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *87.4 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 18:18* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *78.9 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 18:18* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.9 %* | | *80-120* | *06/04/2020* | *06/04/2020 18:18* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **85.6** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-012 (17-18)**

**R202309-07 (Soil)**

**Date Sampled**
**06/04/2020 09:40**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| Trichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| Vinyl chloride | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 18:46 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *80.0 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 18:46* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *70.4 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 18:46* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *82.3 %* | | *80-120* | *06/04/2020* | *06/04/2020 18:46* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **79.5** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-012 (7-8)**

**R202309-08 (Soil)**

**Date Sampled**
**06/04/2020 09:45**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Pace Analytical - Lab #20** | | | | | | | | |
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 36 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 36 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 36 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| Methylene chloride | ND | 140 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| Tetrachloroethene | ND | 36 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 36 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| Trichloroethene | ND | 36 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| Vinyl chloride | ND | 36 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:14 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.1 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 19:14* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.7 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 19:14* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.1 %* | | *80-120* | *06/04/2020* | *06/04/2020 19:14* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **87.2** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-020 (11-12)**

**R202309-09 (Soil)**

**Date Sampled**
**06/04/2020 10:25**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 19:42 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *84.4 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 19:42* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *74.5 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 19:42* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *87.2 %* | | *80-120* | *06/04/2020* | *06/04/2020 19:42* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **87.4** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-020 (18-19)**

**R202309-10 (Soil)**

**Date Sampled**
**06/04/2020 10:35**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:10 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *80.6 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 20:10* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *69.1 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 20:10* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *84.2 %* | | *80-120* | *06/04/2020* | *06/04/2020 20:10* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **89.6** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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**DPT-020 (14-15)**

**R202309-11 (Soil)**

**Date Sampled**
**06/04/2020 11:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 20:38 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *79.5 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 20:38* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *69.8 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 20:38* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *80.5 %* | | *80-120* | *06/04/2020* | *06/04/2020 20:38* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **90.5** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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**DUP-06**

**R202309-12 (Soil)**

**Date Sampled**
**06/04/2020 10:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| **Trichloroethene** | **32** | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:01 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *83.4 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 22:01* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *73.4 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 22:01* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *85.1 %* | | *80-120* | *06/04/2020* | *06/04/2020 22:01* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **90.5** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-020 (5-6)**

**R202309-13 (Soil)**

**Date Sampled**
**06/04/2020 11:20**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| Trichloroethene | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| Vinyl chloride | ND | 32 | ug/kg dry | 1 | 06/04/2020 | 06/04/2020 22:29 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *78.6 %* | | *61.9-110* | *06/04/2020* | *06/04/2020 22:29* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *71.1 %* | | *59.1-115* | *06/04/2020* | *06/04/2020 22:29* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *80.0 %* | | *80-120* | *06/04/2020* | *06/04/2020 22:29* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **82.5** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-021 (6-7)**

**R202309-14 (Soil)**

**Date Sampled**
**06/04/2020 14:15**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:30 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.4 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 03:30* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.6 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 03:30* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.9 %* | | *80-120* | *06/04/2020* | *06/05/2020 03:30* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **87.8** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-021 (10-11)**
**R202309-15 (Soil)**

**Date Sampled**
**06/04/2020 14:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 03:57 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.3 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 03:57* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.0 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 03:57* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.4 %* | | *80-120* | *06/04/2020* | *06/05/2020 03:57* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **89.2** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DUP-07**

**R202309-16 (Soil)**

**Date Sampled**
**06/04/2020 14:25**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 38 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 38 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 38 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| Methylene chloride | ND | 150 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| Tetrachloroethene | ND | 38 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 38 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| Trichloroethene | ND | 38 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| Vinyl chloride | ND | 38 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:24 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.6 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 04:24* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.2 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 04:24* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.4 %* | | *80-120* | *06/04/2020* | *06/05/2020 04:24* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **88.2** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-021 (19-20)**

**R202309-17 (Soil)**

**Date Sampled**
**06/04/2020 14:50**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Pace Analytical - Lab #20** | | | | | | | | |
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| Trichloroethene | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 04:51 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *71.1 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 04:51* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *65.2 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 04:51* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *70.9 %* | | *80-120* | *06/04/2020* | *06/05/2020 04:51* | *EPA 8260B* | *S* |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **88.2** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-021 (23-24)**

**R202309-18 (Soil)**

**Date Sampled**
**06/04/2020 14:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006007** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **37** | 31 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| **Trichloroethene** | **120** | 31 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/04/2020 | 06/05/2020 05:18 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.8 %* | | *61.9-110* | *06/04/2020* | *06/05/2020 05:18* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.9 %* | | *59.1-115* | *06/04/2020* | *06/05/2020 05:18* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *98.6 %* | | *80-120* | *06/04/2020* | *06/05/2020 05:18* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006008** | | | |
| **% Solids** | **81.4** | 0.00 | % by Weight | 1 | 06/04/2020 | 06/05/2020 08:13 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-022 (5-6)**

**R202310-01 (Soil)**

**Date Sampled**
**06/05/2020 09:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 22:31 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.5 %* | | *61.9-110* | *06/05/2020* | *06/05/2020 22:31* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *79.2 %* | | *59.1-115* | *06/05/2020* | *06/05/2020 22:31* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.4 %* | | *80-120* | *06/05/2020* | *06/05/2020 22:31* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **86.6** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-022 (14-15)**
**R202310-02 (Soil)**

**Date Sampled**
**06/05/2020 10:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/05/2020 | 06/07/2020 11:39 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.5 %* | | *61.9-110* | *06/05/2020* | *06/07/2020 11:39* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.9 %* | | *59.1-115* | *06/05/2020* | *06/07/2020 11:39* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.5 %* | | *80-120* | *06/05/2020* | *06/07/2020 11:39* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **86.9** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-022 (8-9)**

**R202310-03 (Soil)**

**Date Sampled**
**06/05/2020 10:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| **Trichloroethene** | **29** | 28 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:26 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.5 %* | | *61.9-110* | *06/05/2020* | *06/05/2020 23:26* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.3 %* | | *59.1-115* | *06/05/2020* | *06/05/2020 23:26* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.3 %* | | *80-120* | *06/05/2020* | *06/05/2020 23:26* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **88.8** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-022 (20-21)**

**R202310-04 (Soil)**

**Date Sampled**
**06/05/2020 10:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| Methylene chloride | ND | 99 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| Tetrachloroethene | ND | 25 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| **Trichloroethene** | **100** | 25 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| Vinyl chloride | ND | 25 | ug/kg dry | 1 | 06/05/2020 | 06/05/2020 23:54 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.2 %* | | *61.9-110* | *06/05/2020* | *06/05/2020 23:54* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *75.9 %* | | *59.1-115* | *06/05/2020* | *06/05/2020 23:54* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.9 %* | | *80-120* | *06/05/2020* | *06/05/2020 23:54* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **86.7** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-027 (8-9)**

**R202310-05 (Soil)**

**Date Sampled**
**06/05/2020 13:20**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 35 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 35 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 35 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| Methylene chloride | ND | 140 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| Tetrachloroethene | ND | 35 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 35 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| Trichloroethene | ND | 35 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| Vinyl chloride | ND | 35 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:21 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.9 %* | | *61.9-110* | *06/05/2020* | *06/06/2020 00:21* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.6 %* | | *59.1-115* | *06/05/2020* | *06/06/2020 00:21* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.1 %* | | *80-120* | *06/05/2020* | *06/06/2020 00:21* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **89.6** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-027 (11-12)**
**R202310-06 (Soil)**

**Date Sampled**
**06/05/2020 13:25**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 34 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| Methylene chloride | ND | 140 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| Tetrachloroethene | ND | 34 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| Trichloroethene | ND | 34 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| Vinyl chloride | ND | 34 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 00:48 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *99.3 %* | | *61.9-110* | *06/05/2020* | *06/06/2020 00:48* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.2 %* | | *59.1-115* | *06/05/2020* | *06/06/2020 00:48* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *101 %* | | *80-120* | *06/05/2020* | *06/06/2020 00:48* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **93.6** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-027 (2-3)**

**R202310-07 (Soil)**

**Date Sampled**
**06/05/2020 13:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:15 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *84.3 %* | | *61.9-110* | *06/05/2020* | *06/06/2020 01:15* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *73.6 %* | | *59.1-115* | *06/05/2020* | *06/06/2020 01:15* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *86.0 %* | | *80-120* | *06/05/2020* | *06/06/2020 01:15* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **82.9** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-027 (5-6)**

**R202310-08 (Soil)**

**Date Sampled**
**06/05/2020 14:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006010** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| Trichloroethene | ND | 30 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/05/2020 | 06/06/2020 01:42 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.6 %* | | *61.9-110* | *06/05/2020* | *06/06/2020 01:42* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.0 %* | | *59.1-115* | *06/05/2020* | *06/06/2020 01:42* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *100 %* | | *80-120* | *06/05/2020* | *06/06/2020 01:42* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006011** | | | |
| **% Solids** | **87.9** | 0.00 | % by Weight | 1 | 06/05/2020 | 06/07/2020 09:18 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-021 (36)**

**R202311-01 (Water)**

**Date Sampled**
**06/05/2020 07:15**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006009**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **410** | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | D |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | |
| **Trichloroethene** | **5200** | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:48 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.6 %* | | *82.5-107* | *06/05/2020* | *06/06/2020 05:48* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.8 %* | | *78.3-109* | *06/05/2020* | *06/06/2020 05:48* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.8 %* | | *80-120* | *06/05/2020* | *06/06/2020 05:48* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-020 (44)**

**R202311-02 (Water)**

**Date Sampled**
**06/05/2020 08:25**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006009**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **570** | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | D |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | |
| **Trichloroethene** | **7400** | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/05/2020 | 06/06/2020 05:21 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.3 %* | | *82.5-107* | *06/05/2020* | *06/06/2020 05:21* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.1 %* | | *78.3-109* | *06/05/2020* | *06/06/2020 05:21* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.5 %* | | *80-120* | *06/05/2020* | *06/06/2020 05:21* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-026 (3-4)**

**R202401-01 (Soil)**

**Date Sampled**
**06/07/2020 07:35**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 35 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 35 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 35 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| Methylene chloride | ND | 140 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| Tetrachloroethene | ND | 35 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 35 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| Trichloroethene | ND | 35 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| Vinyl chloride | ND | 35 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 14:07 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.4 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 14:07* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.2 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 14:07* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.5 %* | | *80-120* | *06/08/2020* | *06/08/2020 14:07* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **80.4** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-026 (16-17)**
**R202401-02 (Soil)**

**Date Sampled**
**06/07/2020 07:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:38 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.1 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 13:38* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.3 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 13:38* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.7 %* | | *80-120* | *06/08/2020* | *06/08/2020 13:38* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **84.9** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-026 (17-18)**
**R202401-03 (Soil)**

**Date Sampled**
**06/07/2020 07:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| Tetrachloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| Trichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| Vinyl chloride | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 16:35 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *82.3 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 16:35* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *73.7 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 16:35* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *85.6 %* | | *80-120* | *06/08/2020* | *06/08/2020 16:35* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **86.7** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-026 (26-27)**

**R202401-04 (Soil)**

**Date Sampled**
**06/07/2020 08:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **37** | 30 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| **Trichloroethene** | **69** | 30 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 11:17 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.8 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 11:17* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.1 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 11:17* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.5 %* | | *80-120* | *06/08/2020* | *06/08/2020 11:17* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **82.3** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-023 (2-3)**

**R202401-05 (Soil)**

**Date Sampled**
**06/07/2020 12:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 17:05 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.7 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 17:05* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.3 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 17:05* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.9 %* | | *80-120* | *06/08/2020* | *06/08/2020 17:05* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **92.0** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-023 (4-5)**

**R202401-06 (Soil)**

**Date Sampled**
**06/07/2020 13:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 07:49 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *122 %* | | *61.9-110* | *06/08/2020* | *06/09/2020 07:49* | *EPA 8260B* | *S* |
| *Surrogate: 4-Bromofluorobenzene* | | *102 %* | | *59.1-115* | *06/08/2020* | *06/09/2020 07:49* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *112 %* | | *80-120* | *06/08/2020* | *06/09/2020 07:49* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **90.4** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-023 (7-8)**

**R202401-07 (Soil)**

**Date Sampled**
**06/07/2020 13:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| Tetrachloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| Trichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| Vinyl chloride | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 13:10 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.7 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 13:10* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *76.9 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 13:10* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.8 %* | | *80-120* | *06/08/2020* | *06/08/2020 13:10* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **93.6** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-023 (9-10)**

**R202401-08 (Soil)**

**Date Sampled**
**06/07/2020 14:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| Trichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 10:49 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.5 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 10:49* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.9 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 10:49* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.6 %* | | *80-120* | *06/08/2020* | *06/08/2020 10:49* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **94.5** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-022 (36)**

**R202402-01 (Water)**

**Date Sampled**
**06/06/2020 08:45**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006013**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 11:45 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 11:45 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **1500** | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 11:45 | EPA 8260B | D |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/08/2020 | 06/08/2020 11:45 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 11:45 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 11:45 | EPA 8260B | |
| **Trichloroethene** | **66000** | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 10:08 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 11:45 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.0 %* | | *82.5-107* | *06/08/2020* | *06/08/2020 11:45* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *78.7 %* | | *78.3-109* | *06/08/2020* | *06/08/2020 11:45* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.3 %* | | *80-120* | *06/08/2020* | *06/08/2020 11:45* | *EPA 8260B* | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-026 (45)**

**R202402-02 (Water)**

**Date Sampled**
**06/08/2020 06:25**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006013**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 12:13 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 12:13 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **340** | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 12:13 | EPA 8260B | D |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/08/2020 | 06/08/2020 12:13 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 12:13 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 12:13 | EPA 8260B | |
| **Trichloroethene** | **40000** | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:40 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 12:13 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.1 %* | | *82.5-107* | *06/08/2020* | *06/08/2020 12:13* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *77.8 %* | | *78.3-109* | *06/08/2020* | *06/08/2020 12:13* | *EPA 8260B* | *S* |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.8 %* | | *80-120* | *06/08/2020* | *06/08/2020 12:13* | *EPA 8260B* | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-026 (36)**

**R202402-03 (Water)**

**Date Sampled**
**06/08/2020 06:35**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006013**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **1400** | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | D |
| Methylene chloride | ND | 4000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | |
| Tetrachloroethene | ND | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | |
| **Trichloroethene** | **14000** | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | D |
| Vinyl chloride | ND | 1000 | ug/L | 2000 | 06/08/2020 | 06/09/2020 09:12 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.1 %* | | *82.5-107* | *06/08/2020* | *06/09/2020 09:12* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.4 %* | | *78.3-109* | *06/08/2020* | *06/09/2020 09:12* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *100 %* | | *80-120* | *06/08/2020* | *06/09/2020 09:12* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-023 (42)**

**R202402-04 (Water)**

**Date Sampled**
**06/08/2020 16:35**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006013**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | |
| **Trichloroethene** | **4400** | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/08/2020 | 06/08/2020 18:03 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.4 %* | | *82.5-107* | *06/08/2020* | *06/08/2020 18:03* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *79.1 %* | | *78.3-109* | *06/08/2020* | *06/08/2020 18:03* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.9 %* | | *80-120* | *06/08/2020* | *06/08/2020 18:03* | *EPA 8260B* | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-024 (44)**

**R202402-05 (Water)**

**Date Sampled**
**06/08/2020 16:45**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006013**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/08/2020 | 06/08/2020 18:32 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.1 %* | | *82.5-107* | *06/08/2020* | *06/08/2020 18:32* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.0 %* | | *78.3-109* | *06/08/2020* | *06/08/2020 18:32* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.9 %* | | *80-120* | *06/08/2020* | *06/08/2020 18:32* | *EPA 8260B* | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-024 (9-10)**

**R202403-01 (Soil)**

**Date Sampled**
**06/08/2020 11:45**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:16 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.7 %* | | *61.9-110* | *06/08/2020* | *06/09/2020 08:16* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.8 %* | | *59.1-115* | *06/08/2020* | *06/09/2020 08:16* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *101 %* | | *80-120* | *06/08/2020* | *06/09/2020 08:16* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **93.3** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DUP-08**

**R202403-02 (Soil)**

**Date Sampled**
**06/08/2020 11:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 38 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 38 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 38 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| Methylene chloride | ND | 150 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| Tetrachloroethene | ND | 38 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 38 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| Trichloroethene | ND | 38 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| Vinyl chloride | ND | 38 | ug/kg dry | 1 | 06/08/2020 | 06/09/2020 08:44 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.8 %* | | *61.9-110* | *06/08/2020* | *06/09/2020 08:44* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.1 %* | | *59.1-115* | *06/08/2020* | *06/09/2020 08:44* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *100 %* | | *80-120* | *06/08/2020* | *06/09/2020 08:44* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **92.7** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-024 (13-14)**
**R202403-03 (Soil)**

**Date Sampled**
**06/08/2020 12:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:04 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.8 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 19:04* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.1 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 19:04* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.3 %* | | *80-120* | *06/08/2020* | *06/08/2020 19:04* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **92.7** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-024 (17-18)**
**R202403-04 (Soil)**

**Date Sampled**
**06/08/2020 12:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| Tetrachloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| Trichloroethene | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| Vinyl chloride | ND | 33 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 19:32 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.2 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 19:32* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.0 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 19:32* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.7 %* | | *80-120* | *06/08/2020* | *06/08/2020 19:32* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **93.4** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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**2525 Advance Road**
**Madison, WI 53718**
**608.221.8700 Phone**
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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-024 (21-22)**

**R202403-05 (Soil)**

**Date Sampled**
**06/08/2020 12:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| Trichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:00 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.2 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 20:00* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *79.8 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 20:00* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.3 %* | | *80-120* | *06/08/2020* | *06/08/2020 20:00* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **92.6** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DUP-09**

**R202403-06 (Soil)**

**Date Sampled**
**06/08/2020 12:15**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006012** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| Trichloroethene | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/08/2020 | 06/08/2020 20:28 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *67.6 %* | | *61.9-110* | *06/08/2020* | *06/08/2020 20:28* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *57.2 %* | | *59.1-115* | *06/08/2020* | *06/08/2020 20:28* | *EPA 8260B* | *S* |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *66.5 %* | | *80-120* | *06/08/2020* | *06/08/2020 20:28* | *EPA 8260B* | *S* |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006014** | | | |
| **% Solids** | **85.5** | 0.00 | % by Weight | 1 | 06/08/2020 | 06/09/2020 07:45 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-024 (33)**

**R202404-01 (Water)**

**Date Sampled**
**06/09/2020 07:10**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006015**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/09/2020 | 06/09/2020 10:37 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.3 %* | | *82.5-107* | *06/09/2020* | *06/09/2020 10:37* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.7 %* | | *78.3-109* | *06/09/2020* | *06/09/2020 10:37* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.2 %* | | *80-120* | *06/09/2020* | *06/09/2020 10:37* | *EPA 8260B* | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-013 (33)**

**R202404-02 (Water)**

**Date Sampled**
**06/09/2020 07:20**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006015**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | |
| Methylene chloride | ND | 4000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | |
| Tetrachloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | |
| **Trichloroethene** | **57000** | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | D |
| Vinyl chloride | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:06 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.2 %* | | *82.5-107* | *06/09/2020* | *06/09/2020 11:06* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *79.6 %* | | *78.3-109* | *06/09/2020* | *06/09/2020 11:06* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.1 %* | | *80-120* | *06/09/2020* | *06/09/2020 11:06* | *EPA 8260B* | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-012 (33)**

**R202404-03 (Water)**

**Date Sampled**
**06/09/2020 07:30**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006015**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | |
| Methylene chloride | ND | 4000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | |
| Tetrachloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | |
| **Trichloroethene** | **21000** | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | D |
| Vinyl chloride | ND | 1000 | ug/L | 2000 | 06/09/2020 | 06/09/2020 11:34 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.7 %* | | *82.5-107* | *06/09/2020* | *06/09/2020 11:34* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *78.9 %* | | *78.3-109* | *06/09/2020* | *06/09/2020 11:34* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.1 %* | | *80-120* | *06/09/2020* | *06/09/2020 11:34* | *EPA 8260B* | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-023 (33)**

**R202404-04 (Water)**

**Date Sampled**
**06/09/2020 06:50**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006015**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | |
| **Trichloroethene** | **2500** | 100 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/09/2020 | 06/09/2020 12:03 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.6 %* | | *82.5-107* | *06/09/2020* | *06/09/2020 12:03* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.7 %* | | *78.3-109* | *06/09/2020* | *06/09/2020 12:03* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *98.5 %* | | *80-120* | *06/09/2020* | *06/09/2020 12:03* | *EPA 8260B* | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-025 (6-7)**

**R202405-01 (Soil)**

**Date Sampled**
**06/09/2020 11:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006016** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 20:53 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.9 %* | | *61.9-110* | *06/09/2020* | *06/09/2020 20:53* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.3 %* | | *59.1-115* | *06/09/2020* | *06/09/2020 20:53* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.3 %* | | *80-120* | *06/09/2020* | *06/09/2020 20:53* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006017** | | | |
| **% Solids** | **91.2** | 0.00 | % by Weight | 1 | 06/09/2020 | 06/10/2020 07:40 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-025 (11-12)**
**R202405-02 (Soil)**

**Date Sampled**
**06/09/2020 12:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006016** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| Trichloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 22:16 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.7 %* | | *61.9-110* | *06/09/2020* | *06/09/2020 22:16* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.2 %* | | *59.1-115* | *06/09/2020* | *06/09/2020 22:16* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.3 %* | | *80-120* | *06/09/2020* | *06/09/2020 22:16* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006017** | | | |
| **% Solids** | **89.8** | 0.00 | % by Weight | 1 | 06/09/2020 | 06/10/2020 07:40 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-025 (17-18)**
**R202405-03 (Soil)**

**Date Sampled**
**06/09/2020 12:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | | **Preparation Batch: R006016** | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| **Trichloroethene** | **38** | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:21 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.2 %* | | *61.9-110* | *06/09/2020* | *06/09/2020 21:21* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *78.7 %* | | *59.1-115* | *06/09/2020* | *06/09/2020 21:21* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *91.7 %* | | *80-120* | *06/09/2020* | *06/09/2020 21:21* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | | **Preparation Batch: R006017** | | |
| **% Solids** | **84.0** | 0.00 | % by Weight | 1 | 06/09/2020 | 06/10/2020 07:40 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-025 (22-23)**

**R202405-04 (Soil)**

**Date Sampled**
**06/09/2020 12:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006016** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| **Trichloroethene** | **52** | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/09/2020 | 06/09/2020 21:49 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.2 %* | | *61.9-110* | *06/09/2020* | *06/09/2020 21:49* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.2 %* | | *59.1-115* | *06/09/2020* | *06/09/2020 21:49* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *97.0 %* | | *80-120* | *06/09/2020* | *06/09/2020 21:49* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006017** | | | |
| **% Solids** | **85.1** | 0.00 | % by Weight | 1 | 06/09/2020 | 06/10/2020 07:40 | SM 2540B | |

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**2525 Advance Road**
**Madison, WI 53718**
**608.221.8700 Phone**
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HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-025 (36)**

**R202406-01 (Water)**

**Date Sampled**
**06/10/2020 06:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006018** | | | |
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 21:42 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 21:42 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **8.1** | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 21:42 | EPA 8260B | D |
| Methylene chloride | ND | 20 | ug/L | 10 | 06/10/2020 | 06/10/2020 21:42 | EPA 8260B | |
| Tetrachloroethene | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 21:42 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 21:42 | EPA 8260B | |
| **Trichloroethene** | **660** | 50 | ug/L | 100 | 06/10/2020 | 06/11/2020 11:20 | EPA 8260B | M, D |
| Vinyl chloride | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 21:42 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.8 %* | | *82.5-107* | *06/10/2020* | *06/10/2020 21:42* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *74.9 %* | | *78.3-109* | *06/10/2020* | *06/10/2020 21:42* | *EPA 8260B* | *S* |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *91.8 %* | | *80-120* | *06/10/2020* | *06/10/2020 21:42* | *EPA 8260B* | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DUP-10**

**R202406-02 (Water)**

**Date Sampled**
**06/10/2020 07:00**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006018**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 14:15 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 14:15 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **26** | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 14:15 | EPA 8260B | D |
| Methylene chloride | ND | 20 | ug/L | 10 | 06/10/2020 | 06/10/2020 14:15 | EPA 8260B | |
| Tetrachloroethene | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 14:15 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 14:15 | EPA 8260B | |
| **Trichloroethene** | **1600** | 50 | ug/L | 100 | 06/10/2020 | 06/10/2020 22:10 | EPA 8260B | D |
| Vinyl chloride | ND | 5.0 | ug/L | 10 | 06/10/2020 | 06/10/2020 14:15 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.5 %* | | *82.5-107* | *06/10/2020* | *06/10/2020 14:15* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *75.2 %* | | *78.3-109* | *06/10/2020* | *06/10/2020 14:15* | *EPA 8260B* | *S* |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.4 %* | | *80-120* | *06/10/2020* | *06/10/2020 14:15* | *EPA 8260B* | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-028 (48)**

**R202406-03 (Water)**

**Date Sampled**
**06/10/2020 16:05**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006018**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 250 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 250 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **520** | 250 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | D |
| Methylene chloride | ND | 1000 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | |
| Tetrachloroethene | ND | 250 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 250 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | |
| **Trichloroethene** | **11000** | 250 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | D |
| Vinyl chloride | ND | 250 | ug/L | 500 | 06/10/2020 | 06/10/2020 22:37 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.2 %* | | *82.5-107* | *06/10/2020* | *06/10/2020 22:37* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *77.0 %* | | *78.3-109* | *06/10/2020* | *06/10/2020 22:37* | *EPA 8260B* | *S* |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.1 %* | | *80-120* | *06/10/2020* | *06/10/2020 22:37* | *EPA 8260B* | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-028 (10-11)**

**R202407-01 (Soil)**

**Date Sampled**
**06/10/2020 07:40**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006019** | | | |
| 1,1-Dichloroethane | ND | 23 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | |
| Methylene chloride | ND | 92 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | |
| Tetrachloroethene | ND | 23 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | |
| **Trichloroethene** | **410** | 23 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | M |
| Vinyl chloride | ND | 23 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 11:55 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.5 %* | | *61.9-110* | *06/10/2020* | *06/10/2020 11:55* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *74.3 %* | | *59.1-115* | *06/10/2020* | *06/10/2020 11:55* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.5 %* | | *80-120* | *06/10/2020* | *06/10/2020 11:55* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006020** | | | |
| **% Solids** | **89.7** | 0.00 | % by Weight | 1 | 06/10/2020 | 06/11/2020 07:20 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-028 (13-14)**

**R202407-02 (Soil)**

**Date Sampled**
**06/10/2020 07:45**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006019** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| **Trichloroethene** | **220** | 29 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:22 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.7 %* | | *61.9-110* | *06/10/2020* | *06/10/2020 12:22* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *76.9 %* | | *59.1-115* | *06/10/2020* | *06/10/2020 12:22* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.4 %* | | *80-120* | *06/10/2020* | *06/10/2020 12:22* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006020** | | | |
| **% Solids** | **90.1** | 0.00 | % by Weight | 1 | 06/10/2020 | 06/11/2020 07:20 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-028 (16-17)**
**R202407-03 (Soil)**

**Date Sampled**
**06/10/2020 07:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006019** | | | |
| 1,1-Dichloroethane | ND | 32 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| **Trichloroethene** | **1300** | 32 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| Vinyl chloride | ND | 32 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 12:50 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.6 %* | | *61.9-110* | *06/10/2020* | *06/10/2020 12:50* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *76.4 %* | | *59.1-115* | *06/10/2020* | *06/10/2020 12:50* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.0 %* | | *80-120* | *06/10/2020* | *06/10/2020 12:50* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006020** | | | |
| **% Solids** | **85.7** | 0.00 | % by Weight | 1 | 06/10/2020 | 06/11/2020 07:20 | SM 2540B | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DUP-011**

**R202407-04 (Soil)**

**Date Sampled**
**06/10/2020 07:35**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006019** | | | |
| 1,1-Dichloroethane | ND | 37 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 37 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 37 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| Methylene chloride | ND | 150 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| Tetrachloroethene | ND | 37 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 37 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| **Trichloroethene** | **790** | 37 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| Vinyl chloride | ND | 37 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:18 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.4 %* | | *61.9-110* | *06/10/2020* | *06/10/2020 13:18* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *75.7 %* | | *59.1-115* | *06/10/2020* | *06/10/2020 13:18* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.0 %* | | *80-120* | *06/10/2020* | *06/10/2020 13:18* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006020** | | | |
| **% Solids** | **85.4** | 0.00 | % by Weight | 1 | 06/10/2020 | 06/11/2020 07:20 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-028 (21-22)**
**R202407-05 (Soil)**

**Date Sampled**
**06/10/2020 08:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006019** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:47 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:47 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **38** | 28 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:47 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:47 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:47 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:47 | EPA 8260B | |
| **Trichloroethene** | **3300** | 110 | ug/kg dry | 4 | 06/10/2020 | 06/10/2020 18:02 | EPA 8260B | D |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/10/2020 | 06/10/2020 13:47 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *81.3 %* | | *61.9-110* | *06/10/2020* | *06/10/2020 13:47* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *67.6 %* | | *59.1-115* | *06/10/2020* | *06/10/2020 13:47* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *87.5 %* | | *80-120* | *06/10/2020* | *06/10/2020 13:47* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006020** | | | |
| **% Solids** | **88.1** | 0.00 | % by Weight | 1 | 06/10/2020 | 06/11/2020 07:20 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-029 (7-8)**

**R202408-01 (Soil)**

**Date Sampled**
**06/11/2020 07:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 11:48 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *88.9 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 11:48* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.4 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 11:48* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *84.3 %* | | *80-120* | *06/11/2020* | *06/11/2020 11:48* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **93.6** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DUP-12**

**R202408-02 (Soil)**

**Date Sampled**
**06/11/2020 07:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 14:09 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.7 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 14:09* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.4 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 14:09* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.6 %* | | *80-120* | *06/11/2020* | *06/11/2020 14:09* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **94.1** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-029 (13-14)**
**R202408-03 (Soil)**

**Date Sampled**
**06/11/2020 08:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:16 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.5 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 12:16* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *90.6 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 12:16* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.5 %* | | *80-120* | *06/11/2020* | *06/11/2020 12:16* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **88.4** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-029 (17-18)**
**R202408-04 (Soil)**

**Date Sampled**
**06/11/2020 08:15**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 12:44 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.2 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 12:44* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.4 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 12:44* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.3 %* | | *80-120* | *06/11/2020* | *06/11/2020 12:44* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **93.2** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-029 (21-22)**
**R202408-05 (Soil)**

**Date Sampled**
**06/11/2020 08:20**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| Trichloroethene | ND | 31 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:12 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.4 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 13:12* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.9 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 13:12* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *91.3 %* | | *80-120* | *06/11/2020* | *06/11/2020 13:12* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **92.0** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DUP-13**

**R202408-06 (Soil)**

**Date Sampled**
**06/11/2020 08:25**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 13:41 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.0 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 13:41* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *91.0 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 13:41* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *95.2 %* | | *80-120* | *06/11/2020* | *06/11/2020 13:41* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **94.7** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-030 (10-11)**

**R202408-07 (Soil)**

**Date Sampled**
**06/11/2020 13:45**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 20:40 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 20:40 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **160** | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 20:40 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 20:40 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 20:40 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 20:40 | EPA 8260B | |
| **Trichloroethene** | **16000** | 280 | ug/kg dry | 10 | 06/11/2020 | 06/12/2020 10:26 | EPA 8260B | D |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 20:40 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.8 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 20:40* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *93.6 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 20:40* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.6 %* | | *80-120* | *06/11/2020* | *06/11/2020 20:40* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **86.2** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DUP-14**

**R202408-08 (Soil)**

**Date Sampled**
**06/11/2020 14:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:07 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:07 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **170** | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:07 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:07 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:07 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:07 | EPA 8260B | |
| **Trichloroethene** | **17000** | 280 | ug/kg dry | 10 | 06/11/2020 | 06/12/2020 10:54 | EPA 8260B | D |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:07 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *88.8 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 21:07* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.6 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 21:07* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *86.2 %* | | *80-120* | *06/11/2020* | *06/11/2020 21:07* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **86.5** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-030 (15-16)**
**R202408-09 (Soil)**

**Date Sampled**
**06/11/2020 13:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:35 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:35 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **74** | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:35 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:35 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:35 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:35 | EPA 8260B | |
| **Trichloroethene** | **7900** | 160 | ug/kg dry | 5 | 06/11/2020 | 06/12/2020 09:59 | EPA 8260B | D |
| Vinyl chloride | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 21:35 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.0 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 21:35* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.9 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 21:35* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *87.5 %* | | *80-120* | *06/11/2020* | *06/11/2020 21:35* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **79.5** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-030 (17-18)**

**R202408-10 (Soil)**

**Date Sampled**
**06/11/2020 14:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| Trichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| Vinyl chloride | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:02 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.0 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 22:02* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.2 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 22:02* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.9 %* | | *80-120* | *06/11/2020* | *06/11/2020 22:02* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **91.2** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-030 (19-20)**
**R202408-11 (Soil)**

**Date Sampled**
**06/11/2020 14:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| Trichloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:29 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.1 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 22:29* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.6 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 22:29* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.0 %* | | *80-120* | *06/11/2020* | *06/11/2020 22:29* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **90.8** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-027 (17-18)**

**R202408-12 (Soil)**

**Date Sampled**
**06/11/2020 17:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| **Trichloroethene** | **100** | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 22:56 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *84.4 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 22:56* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.2 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 22:56* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *79.9 %* | | *80-120* | *06/11/2020* | *06/11/2020 22:56* | *EPA 8260B* | *S* |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **80.2** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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**DPT-027 (22-23)**

**R202408-13 (Soil)**

**Date Sampled**
**06/11/2020 17:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006022** | | | |
| 1,1-Dichloroethane | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| Trichloroethene | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| Vinyl chloride | ND | 32 | ug/kg dry | 1 | 06/11/2020 | 06/11/2020 23:23 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.9 %* | | *61.9-110* | *06/11/2020* | *06/11/2020 23:23* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *90.7 %* | | *59.1-115* | *06/11/2020* | *06/11/2020 23:23* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.2 %* | | *80-120* | *06/11/2020* | *06/11/2020 23:23* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006023** | | | |
| **% Solids** | **93.4** | 0.00 | % by Weight | 1 | 06/11/2020 | 06/12/2020 07:54 | SM 2540B | |

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**EB-01**

**R202409-01 (Water)**

**Date Sampled**
**06/11/2020 07:20**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 10:39 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.3 %* | | *82.5-107* | *06/12/2020* | *06/13/2020 10:39* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.5 %* | | *78.3-109* | *06/12/2020* | *06/13/2020 10:39* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *87.0 %* | | *80-120* | *06/12/2020* | *06/13/2020 10:39* | *EPA 8260B* | |

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**EB-02**

**R202409-02 (Water)**

**Date Sampled**
**06/11/2020 07:45**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:07 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.4 %* | | *82.5-107* | *06/12/2020* | *06/13/2020 11:07* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *93.9 %* | | *78.3-109* | *06/12/2020* | *06/13/2020 11:07* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.5 %* | | *80-120* | *06/12/2020* | *06/13/2020 11:07* | *EPA 8260B* | |

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**EB-03**

**R202409-03 (Water)**

**Date Sampled**
**06/12/2020 06:50**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 11:35 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.2 %* | | *82.5-107* | *06/12/2020* | *06/13/2020 11:35* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *90.8 %* | | *78.3-109* | *06/12/2020* | *06/13/2020 11:35* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *98.3 %* | | *80-120* | *06/12/2020* | *06/13/2020 11:35* | *EPA 8260B* | |

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**EB-04**

**R202409-04 (Water)**

**Date Sampled**
**06/12/2020 06:55**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/12/2020 | 06/13/2020 08:20 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.1 %* | | *82.5-107* | *06/12/2020* | *06/13/2020 08:20* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *91.7 %* | | *78.3-109* | *06/12/2020* | *06/13/2020 08:20* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.0 %* | | *80-120* | *06/12/2020* | *06/13/2020 08:20* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-029 (45)**

**R202409-05 (Water)**

**Date Sampled**
**06/12/2020 07:10**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 10 | ug/L | 20 | 06/12/2020 | 06/12/2020 09:31 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 10 | ug/L | 20 | 06/12/2020 | 06/12/2020 09:31 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **700** | 10 | ug/L | 20 | 06/12/2020 | 06/12/2020 09:31 | EPA 8260B | D |
| Methylene chloride | ND | 40 | ug/L | 20 | 06/12/2020 | 06/12/2020 09:31 | EPA 8260B | |
| Tetrachloroethene | ND | 10 | ug/L | 20 | 06/12/2020 | 06/12/2020 09:31 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 10 | ug/L | 20 | 06/12/2020 | 06/12/2020 09:31 | EPA 8260B | |
| **Trichloroethene** | **11000** | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:22 | EPA 8260B | D |
| Vinyl chloride | ND | 10 | ug/L | 20 | 06/12/2020 | 06/12/2020 09:31 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.3 %* | | *82.5-107* | *06/12/2020* | *06/12/2020 09:31* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.4 %* | | *78.3-109* | *06/12/2020* | *06/12/2020 09:31* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.5 %* | | *80-120* | *06/12/2020* | *06/12/2020 09:31* | *EPA 8260B* | |

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**DUP-15**

**R202409-06 (Water)**

**Date Sampled**
**06/12/2020 07:00**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **730** | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | D |
| Methylene chloride | ND | 1000 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | |
| Tetrachloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | |
| **Trichloroethene** | **13000** | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | D |
| Vinyl chloride | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:17 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.1 %* | | *82.5-107* | *06/12/2020* | *06/12/2020 12:17* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.4 %* | | *78.3-109* | *06/12/2020* | *06/12/2020 12:17* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.9 %* | | *80-120* | *06/12/2020* | *06/12/2020 12:17* | *EPA 8260B* | |

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**DPT-029 (34)**

**R202409-07 (Water)**

**Date Sampled**
**06/12/2020 07:25**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **1200** | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | D |
| Methylene chloride | ND | 1000 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | |
| Tetrachloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | |
| **Trichloroethene** | **22000** | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | D |
| Vinyl chloride | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 11:49 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.4 %* | | *82.5-107* | *06/12/2020* | *06/12/2020 11:49* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.2 %* | | *78.3-109* | *06/12/2020* | *06/12/2020 11:49* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *86.0 %* | | *80-120* | *06/12/2020* | *06/12/2020 11:49* | *EPA 8260B* | |

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**DUP-16**

**R202409-08 (Water)**

**Date Sampled**
**06/12/2020 07:15**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **1200** | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | D |
| Methylene chloride | ND | 1000 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | |
| Tetrachloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | |
| **Trichloroethene** | **21000** | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | D |
| Vinyl chloride | ND | 250 | ug/L | 500 | 06/12/2020 | 06/12/2020 12:45 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.6 %* | | *82.5-107* | *06/12/2020* | *06/12/2020 12:45* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.3 %* | | *78.3-109* | *06/12/2020* | *06/12/2020 12:45* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.6 %* | | *80-120* | *06/12/2020* | *06/12/2020 12:45* | *EPA 8260B* | |

Pace Analytical
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**2525 Advance Road**
**Madison, WI 53718**
**608.221.8700 Phone**
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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-031 (33)**

**R202409-09 (Water)**

**Date Sampled**
**06/12/2020 14:50**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 08:48 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 08:48 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **310** | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 08:48 | EPA 8260B | D |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/12/2020 | 06/13/2020 08:48 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 08:48 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 08:48 | EPA 8260B | |
| **Trichloroethene** | **41000** | 1000 | ug/L | 2000 | 06/12/2020 | 06/13/2020 10:11 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 08:48 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.6 %* | | *82.5-107* | *06/12/2020* | *06/13/2020 08:48* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *90.0 %* | | *78.3-109* | *06/12/2020* | *06/13/2020 08:48* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.0 %* | | *80-120* | *06/12/2020* | *06/13/2020 08:48* | *EPA 8260B* | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-027 (33)**

**R202409-10 (Water)**

**Date Sampled**
**06/12/2020 15:05**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006021**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | |
| Methylene chloride | ND | 400 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | |
| Tetrachloroethene | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | |
| **Trichloroethene** | **3500** | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | D |
| Vinyl chloride | ND | 100 | ug/L | 200 | 06/12/2020 | 06/13/2020 09:15 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.9 %* | | *82.5-107* | *06/12/2020* | *06/13/2020 09:15* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *92.0 %* | | *78.3-109* | *06/12/2020* | *06/13/2020 09:15* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.9 %* | | *80-120* | *06/12/2020* | *06/13/2020 09:15* | *EPA 8260B* | |

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HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-031 (12-13)**
**R202410-01 (Soil)**

**Date Sampled**
**06/12/2020 10:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006024** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | |
| **Trichloroethene** | **27** | 27 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | M, X |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 13:13 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.3 %* | | *61.9-110* | *06/12/2020* | *06/12/2020 13:13* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *80.9 %* | | *59.1-115* | *06/12/2020* | *06/12/2020 13:13* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *85.0 %* | | *80-120* | *06/12/2020* | *06/12/2020 13:13* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006025** | | | |
| **% Solids** | **89.0** | 0.00 | % by Weight | 1 | 06/12/2020 | 06/13/2020 07:33 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-031 (3-4)**

**R202410-02 (Soil)**

**Date Sampled**
**06/12/2020 10:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006024** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| **Trichloroethene** | **65** | 28 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 14:38 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *81.9 %* | | *61.9-110* | *06/12/2020* | *06/12/2020 14:38* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *74.4 %* | | *59.1-115* | *06/12/2020* | *06/12/2020 14:38* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *80.7 %* | | *80-120* | *06/12/2020* | *06/12/2020 14:38* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006025** | | | |
| **% Solids** | **84.5** | 0.00 | % by Weight | 1 | 06/12/2020 | 06/13/2020 07:33 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-031 (16-17)**

**R202410-03 (Soil)**

**Date Sampled**
**06/12/2020 11:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006024** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| **Trichloroethene** | **560** | 26 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:06 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.0 %* | | *61.9-110* | *06/12/2020* | *06/12/2020 15:06* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.5 %* | | *59.1-115* | *06/12/2020* | *06/12/2020 15:06* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *91.4 %* | | *80-120* | *06/12/2020* | *06/12/2020 15:06* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006025** | | | |
| **% Solids** | **86.2** | 0.00 | % by Weight | 1 | 06/12/2020 | 06/13/2020 07:33 | SM 2540B | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-031 (21-22)**

**R202410-04 (Soil)**

**Date Sampled**
**06/12/2020 12:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006024** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **34** | 29 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| **Trichloroethene** | **2000** | 29 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/12/2020 | 06/12/2020 15:34 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.9 %* | | *61.9-110* | *06/12/2020* | *06/12/2020 15:34* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.8 %* | | *59.1-115* | *06/12/2020* | *06/12/2020 15:34* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *92.9 %* | | *80-120* | *06/12/2020* | *06/12/2020 15:34* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006025** | | | |
| **% Solids** | **83.5** | 0.00 | % by Weight | 1 | 06/12/2020 | 06/13/2020 07:33 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-032 (12-13)**
**R202411-01 (Soil)**

**Date Sampled**
**06/13/2020 09:15**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:03 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.1 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 12:03* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.9 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 12:03* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.0 %* | | *80-120* | *06/13/2020* | *06/13/2020 12:03* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **93.6** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-032 (15-16)**

**R202411-02 (Soil)**

**Date Sampled**
**06/13/2020 09:20**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 12:31 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.2 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 12:31* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.3 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 12:31* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *86.0 %* | | *80-120* | *06/13/2020* | *06/13/2020 12:31* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **92.9** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-032 (19-20)**

**R202411-03 (Soil)**

**Date Sampled**
**06/13/2020 09:25**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 13:56 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.2 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 13:56* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.4 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 13:56* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *86.2 %* | | *80-120* | *06/13/2020* | *06/13/2020 13:56* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **87.9** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-032 (21-22)**

**R202411-04 (Soil)**

**Date Sampled**
**06/13/2020 09:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 32 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| Tetrachloroethene | ND | 32 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 32 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| Trichloroethene | ND | 32 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| Vinyl chloride | ND | 32 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:24 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.7 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 14:24* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.7 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 14:24* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.7 %* | | *80-120* | *06/13/2020* | *06/13/2020 14:24* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **89.3** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-033 (8-9)**

**R202411-05 (Soil)**

**Date Sampled**
**06/13/2020 12:20**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 14:52 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *101 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 14:52* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *93.8 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 14:52* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.3 %* | | *80-120* | *06/13/2020* | *06/13/2020 14:52* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **92.7** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-033 (12-13)**

**R202411-06 (Soil)**

**Date Sampled**
**06/13/2020 12:30**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| Tetrachloroethene | ND | 25 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| Trichloroethene | ND | 25 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| Vinyl chloride | ND | 25 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:20 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.3 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 15:20* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.1 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 15:20* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.2 %* | | *80-120* | *06/13/2020* | *06/13/2020 15:20* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **91.5** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-033 (19-20)**
**R202411-07 (Soil)**

**Date Sampled**
**06/13/2020 12:35**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| **Trichloroethene** | **520** | 27 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 15:48 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.7 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 15:48* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.0 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 15:48* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.0 %* | | *80-120* | *06/13/2020* | *06/13/2020 15:48* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **88.1** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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**DPT-033 (22-23)**

**R202411-08 (Soil)**

**Date Sampled**
**06/13/2020 12:40**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006026** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **39** | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| **Trichloroethene** | **1700** | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/13/2020 | 06/13/2020 16:17 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *90.0 %* | | *61.9-110* | *06/13/2020* | *06/13/2020 16:17* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.3 %* | | *59.1-115* | *06/13/2020* | *06/13/2020 16:17* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.2 %* | | *80-120* | *06/13/2020* | *06/13/2020 16:17* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006027** | | | |
| **% Solids** | **87.9** | 0.00 | % by Weight | 1 | 06/13/2020 | 06/14/2020 07:22 | SM 2540B | |

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**DPT-032 (35)**

**R202412-01 (Water)**

**Date Sampled**
**06/13/2020 15:50**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006028**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| **Trichloroethene** | **6.6** | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 16:04 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.4 %* | | *82.5-107* | *06/14/2020* | *06/14/2020 16:04* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.2 %* | | *78.3-109* | *06/14/2020* | *06/14/2020 16:04* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.8 %* | | *80-120* | *06/14/2020* | *06/14/2020 16:04* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-032 (49.5)**

**R202412-02 (Water)**

**Date Sampled**
**06/13/2020 16:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006028** | | | |
| 1,1-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 2.5 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **7.4** | 2.5 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | D |
| Methylene chloride | ND | 10 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | |
| Tetrachloroethene | ND | 2.5 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | |
| **Trichloroethene** | **61** | 2.5 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | D |
| Vinyl chloride | ND | 2.5 | ug/L | 5 | 06/14/2020 | 06/14/2020 10:24 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.7 %* | | *82.5-107* | *06/14/2020* | *06/14/2020 10:24* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.4 %* | | *78.3-109* | *06/14/2020* | *06/14/2020 10:24* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.5 %* | | *80-120* | *06/14/2020* | *06/14/2020 10:24* | *EPA 8260B* | |

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**DPT-033 (049)**

**R202501-01 (Water)**

**Date Sampled**
**06/14/2020 07:00**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006028**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | |
| Methylene chloride | ND | 2000 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | |
| Tetrachloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | |
| **Trichloroethene** | **3300** | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | D |
| Vinyl chloride | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:28 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.8 %* | | *82.5-107* | *06/14/2020* | *06/14/2020 09:28* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.7 %* | | *78.3-109* | *06/14/2020* | *06/14/2020 09:28* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *85.2 %* | | *80-120* | *06/14/2020* | *06/14/2020 09:28* | *EPA 8260B* | |

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**DPT-033 (033)**

**R202501-02 (Water)**

**Date Sampled**
**06/14/2020 07:05**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006028**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | |
| Methylene chloride | ND | 2000 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | |
| Tetrachloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | |
| **Trichloroethene** | **5700** | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | D |
| Vinyl chloride | ND | 500 | ug/L | 1000 | 06/14/2020 | 06/14/2020 09:56 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.7 %* | | *82.5-107* | *06/14/2020* | *06/14/2020 09:56* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.6 %* | | *78.3-109* | *06/14/2020* | *06/14/2020 09:56* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.5 %* | | *80-120* | *06/14/2020* | *06/14/2020 09:56* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-034 (033)**

**R202501-03 (Water)**

**Date Sampled**
**06/14/2020 09:50**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006028**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| Trichloroethene | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/14/2020 | 06/14/2020 15:35 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.5 %* | | *82.5-107* | *06/14/2020* | *06/14/2020 15:35* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.7 %* | | *78.3-109* | *06/14/2020* | *06/14/2020 15:35* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *86.4 %* | | *80-120* | *06/14/2020* | *06/14/2020 15:35* | *EPA 8260B* | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-034 (8-9)**

**R202502-01 (Soil)**

**Date Sampled**
**06/14/2020 08:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| Tetrachloroethene | ND | 25 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| Trichloroethene | ND | 25 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| Vinyl chloride | ND | 25 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 12:17 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.9 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 12:17* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.1 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 12:17* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *85.8 %* | | *80-120* | *06/14/2020* | *06/14/2020 12:17* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **86.9** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-034 (15-16)**

**R202502-02 (Soil)**

**Date Sampled**
**06/14/2020 08:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| Methylene chloride | ND | 140 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| Tetrachloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| Trichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| Vinyl chloride | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:49 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *96.3 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 11:49* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *91.2 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 11:49* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *93.7 %* | | *80-120* | *06/14/2020* | *06/14/2020 11:49* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **86.4** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-034 (18-19)**

**R202502-03 (Soil)**

**Date Sampled**
**06/14/2020 08:15**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 11:20 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.5 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 11:20* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *84.5 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 11:20* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.1 %* | | *80-120* | *06/14/2020* | *06/14/2020 11:20* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **84.0** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-034 (22-23)**

**R202502-04 (Soil)**

**Date Sampled**
**06/14/2020 08:20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Pace Analytical - Lab #20** | | | | | | | | |
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 30 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| Tetrachloroethene | ND | 30 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 30 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| Trichloroethene | ND | 30 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| Vinyl chloride | ND | 30 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 10:52 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.0 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 10:52* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *82.4 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 10:52* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *86.8 %* | | *80-120* | *06/14/2020* | *06/14/2020 10:52* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **87.7** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-035 (10-11)**

**R202502-05 (Soil)**

**Date Sampled**
**06/14/2020 12:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:16 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.3 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 20:16* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *91.7 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 20:16* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *91.7 %* | | *80-120* | *06/14/2020* | *06/14/2020 20:16* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **84.8** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-035 (15-16)**
**R202502-06 (Soil)**

**Date Sampled**
**06/14/2020 12:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| Methylene chloride | ND | 140 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| Tetrachloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| Trichloroethene | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| Vinyl chloride | ND | 34 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 20:43 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.9 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 20:43* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.6 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 20:43* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.1 %* | | *80-120* | *06/14/2020* | *06/14/2020 20:43* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **89.6** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-035 (18-19)**
**R202502-07 (Soil)**

**Date Sampled**
**06/14/2020 13:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:10 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.1 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 21:10* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *89.5 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 21:10* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *91.7 %* | | *80-120* | *06/14/2020* | *06/14/2020 21:10* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **88.0** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-035 (21-22)**
**R202502-08 (Soil)**

**Date Sampled**
**06/14/2020 13:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006029** | | | |
| 1,1-Dichloroethane | ND | 33 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| Methylene chloride | ND | 130 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| Tetrachloroethene | ND | 33 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 33 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| Trichloroethene | ND | 33 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| Vinyl chloride | ND | 33 | ug/kg dry | 1 | 06/14/2020 | 06/14/2020 21:38 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *88.8 %* | | *61.9-110* | *06/14/2020* | *06/14/2020 21:38* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.1 %* | | *59.1-115* | *06/14/2020* | *06/14/2020 21:38* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.9 %* | | *80-120* | *06/14/2020* | *06/14/2020 21:38* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006030** | | | |
| **% Solids** | **89.1** | 0.00 | % by Weight | 1 | 06/14/2020 | 06/15/2020 07:21 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-035 (49.5)**

**R202503-01 (Water)**

**Date Sampled**
**06/15/2020 07:10**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006031**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **2.2** | 0.50 | ug/L | 1 | 06/15/2020 | 06/15/2020 09:29 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | 1 | 06/15/2020 | 06/15/2020 09:29 | EPA 8260B | |
| **cis-1,2-Dichloroethene** | **78** | 50 | ug/L | 100 | 06/15/2020 | 06/15/2020 11:22 | EPA 8260B | D |
| Methylene chloride | ND | 2.0 | ug/L | 1 | 06/15/2020 | 06/15/2020 09:29 | EPA 8260B | |
| Tetrachloroethene | ND | 0.50 | ug/L | 1 | 06/15/2020 | 06/15/2020 09:29 | EPA 8260B | |
| **trans-1,2-Dichloroethene** | **0.94** | 0.50 | ug/L | 1 | 06/15/2020 | 06/15/2020 09:29 | EPA 8260B | |
| **Trichloroethene** | **2400** | 50 | ug/L | 100 | 06/15/2020 | 06/15/2020 11:22 | EPA 8260B | D |
| Vinyl chloride | ND | 0.50 | ug/L | 1 | 06/15/2020 | 06/15/2020 09:29 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.0 %* | | *82.5-107* | *06/15/2020* | *06/15/2020 09:29* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.1 %* | | *78.3-109* | *06/15/2020* | *06/15/2020 09:29* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.6 %* | | *80-120* | *06/15/2020* | *06/15/2020 09:29* | *EPA 8260B* | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-036 (11-12)**

**R202504-01 (Soil)**

**Date Sampled**
**06/15/2020 11:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 28 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| Tetrachloroethene | ND | 28 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 28 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| Trichloroethene | ND | 28 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| Vinyl chloride | ND | 28 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 13:58 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *93.6 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 13:58* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.1 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 13:58* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *87.9 %* | | *80-120* | *06/15/2020* | *06/15/2020 13:58* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **89.4** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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608.221.8700 Phone
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HDR
9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-036 (15-16)**
**R202504-02 (Soil)**

**Date Sampled**
**06/15/2020 12:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 14:25 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *85.6 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 14:25* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *81.5 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 14:25* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *83.3 %* | | *80-120* | *06/15/2020* | *06/15/2020 14:25* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **85.1** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-036 (18-19)**

**R202504-03 (Soil)**

**Date Sampled**
**06/15/2020 12:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 31 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| Tetrachloroethene | ND | 31 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 31 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| Trichloroethene | ND | 31 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| Vinyl chloride | ND | 31 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:22 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *85.2 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 16:22* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *78.0 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 16:22* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *81.9 %* | | *80-120* | *06/15/2020* | *06/15/2020 16:22* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **82.7** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-036 (21-22)**
**R202504-04 (Soil)**

**Date Sampled**
**06/15/2020 12:10**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 16:51 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *88.4 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 16:51* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *83.7 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 16:51* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.0 %* | | *80-120* | *06/15/2020* | *06/15/2020 16:51* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **92.1** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-037 (11-12)**
**R202504-05 (Soil)**

**Date Sampled**
**06/15/2020 13:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 26 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| Tetrachloroethene | ND | 26 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 26 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| Trichloroethene | ND | 26 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| Vinyl chloride | ND | 26 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:13 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *97.9 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 19:13* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *93.9 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 19:13* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *96.8 %* | | *80-120* | *06/15/2020* | *06/15/2020 19:13* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **88.9** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-037 (14-15)**

**R202504-06 (Soil)**

**Date Sampled**
**06/15/2020 13:55**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| Methylene chloride | ND | 120 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| Tetrachloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| Trichloroethene | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| Vinyl chloride | ND | 29 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 19:41 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.7 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 19:41* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *87.7 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 19:41* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *90.3 %* | | *80-120* | *06/15/2020* | *06/15/2020 19:41* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **87.3** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| | |
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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-037 (18-19)**

**R202504-07 (Soil)**

**Date Sampled**
**06/15/2020 14:00**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 23 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| Methylene chloride | ND | 92 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| Tetrachloroethene | ND | 23 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 23 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| Trichloroethene | ND | 23 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| Vinyl chloride | ND | 23 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 20:08 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.5 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 20:08* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.8 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 20:08* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.5 %* | | *80-120* | *06/15/2020* | *06/15/2020 20:08* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **92.4** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-037 (21-22)**

**R202504-08 (Soil)**

**Date Sampled**
**06/15/2020 14:05**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| Methylene chloride | ND | 100 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| Tetrachloroethene | ND | 25 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| Trichloroethene | ND | 25 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| Vinyl chloride | ND | 25 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:30 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *89.9 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 21:30* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.6 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 21:30* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.6 %* | | *80-120* | *06/15/2020* | *06/15/2020 21:30* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **88.4** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-038 (11-12)**

**R202504-09 (Soil)**

**Date Sampled**
**06/15/2020 15:40**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| Methylene chloride | ND | 97 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| Tetrachloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| Trichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| Vinyl chloride | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 21:58 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *88.3 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 21:58* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.2 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 21:58* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.9 %* | | *80-120* | *06/15/2020* | *06/15/2020 21:58* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **91.6** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| | |
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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-038 (15-16)**

**R202504-10 (Soil)**

**Date Sampled**
**06/15/2020 15:45**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:25 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *95.1 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 22:25* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *95.0 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 22:25* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *94.0 %* | | *80-120* | *06/15/2020* | *06/15/2020 22:25* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **89.7** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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HDR
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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

**DPT-038 (18-19)**
**R202504-11 (Soil)**

**Date Sampled**
**06/15/2020 15:50**

**Pace Analytical - Lab #20**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| Methylene chloride | ND | 110 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| Tetrachloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| Trichloroethene | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| Vinyl chloride | ND | 27 | ug/kg dry | 1 | 06/15/2020 | 06/15/2020 22:52 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *91.7 %* | | *61.9-110* | *06/15/2020* | *06/15/2020 22:52* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *88.8 %* | | *59.1-115* | *06/15/2020* | *06/15/2020 22:52* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *87.5 %* | | *80-120* | *06/15/2020* | *06/15/2020 22:52* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **88.6** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-038 (22-23)**

**R202504-12 (Soil)**

**Date Sampled**
**06/15/2020 15:55**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| **Pace Analytical - Lab #20** | | | | | | | | |
| **Volatile Organic Compounds by Method 8260 - Purge and Trap** | | | | | **Preparation Batch: R006032** | | | |
| 1,1-Dichloroethane | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| 1,1-Dichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| Methylene chloride | ND | 98 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| Tetrachloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| Trichloroethene | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| Vinyl chloride | ND | 24 | ug/kg dry | 1 | 06/15/2020 | 06/16/2020 12:22 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *115 %* | | *61.9-110* | *06/15/2020* | *06/16/2020 12:22* | *EPA 8260B* | *S* |
| *Surrogate: 4-Bromofluorobenzene* | | *108 %* | | *59.1-115* | *06/15/2020* | *06/16/2020 12:22* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *106 %* | | *80-120* | *06/15/2020* | *06/16/2020 12:22* | *EPA 8260B* | |
| **Classical Chemistry Parameters** | | | | | **Preparation Batch: R006033** | | | |
| **% Solids** | **88.0** | 0.00 | % by Weight | 1 | 06/15/2020 | 06/16/2020 08:00 | SM 2540B | |

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| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-035 (33)**

**R202505-01 (Water)**

**Date Sampled**
**06/16/2020 06:50**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006034**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | |
| Methylene chloride | ND | 10 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | |
| Tetrachloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | |
| **Trichloroethene** | **59** | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | D |
| Vinyl chloride | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 11:54 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *92.1 %* | | *82.5-107* | *06/16/2020* | *06/16/2020 11:54* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *85.3 %* | | *78.3-109* | *06/16/2020* | *06/16/2020 11:54* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *89.4 %* | | *80-120* | *06/16/2020* | *06/16/2020 11:54* | *EPA 8260B* | |

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|---|---|
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| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

**DPT-037 (33)**

**R202505-02 (Water)**

**Date Sampled**
**06/16/2020 07:20**

**Pace Analytical - Lab #20**

**Volatile Organic Compounds by Method 8260 - Purge and Trap** — **Preparation Batch: R006034**

| Analyte | Result | Reporting Limit | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| 1,2-Dichloroethane | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| cis-1,2-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| Methylene chloride | ND | 10 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| Tetrachloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| trans-1,2-Dichloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| Trichloroethene | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| Vinyl chloride | ND | 2.5 | ug/L | 5 | 06/16/2020 | 06/16/2020 12:50 | EPA 8260B | |
| *Surrogate: Toluene-d8* | | *94.0 %* | | *82.5-107* | *06/16/2020* | *06/16/2020 12:50* | *EPA 8260B* | |
| *Surrogate: 4-Bromofluorobenzene* | | *86.4 %* | | *78.3-109* | *06/16/2020* | *06/16/2020 12:50* | *EPA 8260B* | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | | *88.0 %* | | *80-120* | *06/16/2020* | *06/16/2020 12:50* | *EPA 8260B* | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006001 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006001-BLK1)** | | | | Prepared: 06/02/2020 Analyzed: 06/02/2020 19:08 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *501.0* | | *99.6* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *501.0* | | *89.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *517* | | *ug/kg wet* | *501.0* | | *103* | *80-120* | | | |
| **LCS (R006001-BS1)** | | | | Prepared: 06/02/2020 Analyzed: 06/02/2020 14:34 | | | | | | |
| 1,1-Dichloroethane | 247 | 25 | ug/kg wet | 250.0 | | 98.8 | 73-123 | | | |
| 1,1-Dichloroethene | 245 | 25 | ug/kg wet | 250.0 | | 97.8 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 249 | 25 | ug/kg wet | 250.0 | | 99.4 | 76-115 | | | |
| Methylene chloride | 343 | 100 | ug/kg wet | 250.0 | | 137 | 62.2-132 | | | |
| Tetrachloroethene | 249 | 25 | ug/kg wet | 250.0 | | 99.6 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 235 | 25 | ug/kg wet | 250.0 | | 93.8 | 73.5-116 | | | |
| Trichloroethene | 246 | 25 | ug/kg wet | 250.0 | | 98.2 | 79.5-110 | | | |
| Vinyl chloride | 207 | 25 | ug/kg wet | 250.0 | | 82.6 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *251* | | *ug/kg wet* | *250.0* | | *100* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *235* | | *ug/kg wet* | *250.0* | | *93.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *252* | | *ug/kg wet* | *250.0* | | *101* | *80-120* | | | |
| **Matrix Spike (R006001-MS1)** | | **Source: R202305-04** | | Prepared: 06/02/2020 Analyzed: 06/03/2020 03:52 | | | | | | |
| 1,1-Dichloroethane | 294 | 29 | ug/kg dry | 286.1 | ND | 103 | 64.5-113 | | | |
| 1,1-Dichloroethene | 268 | 29 | ug/kg dry | 286.1 | ND | 93.8 | 42-122 | | | |
| cis-1,2-Dichloroethene | 304 | 29 | ug/kg dry | 286.1 | ND | 106 | 65.9-108 | | | |
| Methylene chloride | 320 | 110 | ug/kg dry | 286.1 | ND | 112 | 56.7-120 | | | |
| Tetrachloroethene | 291 | 29 | ug/kg dry | 286.1 | ND | 102 | 54-121 | | | |
| trans-1,2-Dichloroethene | 279 | 29 | ug/kg dry | 286.1 | ND | 97.4 | 61.1-110 | | | |
| Trichloroethene | 299 | 29 | ug/kg dry | 286.1 | ND | 104 | 63.1-112 | | | |
| Vinyl chloride | 246 | 29 | ug/kg dry | 286.1 | ND | 86.0 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *310* | | *ug/kg dry* | *286.1* | | *108* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *286* | | *ug/kg dry* | *286.1* | | *99.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *326* | | *ug/kg dry* | *286.1* | | *114* | *80-120* | | | |
| **Matrix Spike Dup (R006001-MSD1)** | | **Source: R202305-04** | | Prepared: 06/02/2020 Analyzed: 06/03/2020 04:20 | | | | | | |
| 1,1-Dichloroethane | 282 | 28 | ug/kg dry | 280.7 | ND | 100 | 64.5-113 | 4.24 | 20 | |
| 1,1-Dichloroethene | 262 | 28 | ug/kg dry | 280.7 | ND | 93.2 | 42-122 | 2.52 | 20 | |
| cis-1,2-Dichloroethene | 282 | 28 | ug/kg dry | 280.7 | ND | 101 | 65.9-108 | 7.49 | 20 | |
| Methylene chloride | 303 | 110 | ug/kg dry | 280.7 | ND | 108 | 56.7-120 | 5.34 | 20 | |
| Tetrachloroethene | 270 | 28 | ug/kg dry | 280.7 | ND | 96.0 | 54-121 | 7.55 | 20 | |
| trans-1,2-Dichloroethene | 254 | 28 | ug/kg dry | 280.7 | ND | 90.6 | 61.1-110 | 9.11 | 20 | |
| Trichloroethene | 278 | 28 | ug/kg dry | 280.7 | ND | 99.2 | 63.1-112 | 6.99 | 20 | |
| Vinyl chloride | 233 | 28 | ug/kg dry | 280.7 | ND | 83.0 | 30.4-112 | 5.43 | 20 | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006001 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006001-MSD1)** | **Source: R202305-04** | | | Prepared: 06/02/2020 Analyzed: 06/03/2020 04:20 | | | | | | |
| *Surrogate: Toluene-d8* | *281* | | *ug/kg dry* | *280.7* | | *100* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *268* | | *ug/kg dry* | *280.7* | | *95.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *284* | | *ug/kg dry* | *280.7* | | *101* | *80-120* | | | |
| **Batch R006002 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006002-BLK1)** | | | | Prepared: 06/02/2020 Analyzed: 06/03/2020 12:19 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | 2.0 | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.69* | | *ug/L* | *10.00* | | *96.9* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.18* | | *ug/L* | *10.00* | | *81.8* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.44* | | *ug/L* | *10.00* | | *94.4* | *80-120* | | | |
| **LCS (R006002-BS1)** | | | | Prepared: 06/02/2020 Analyzed: 06/03/2020 09:55 | | | | | | |
| 1,1-Dichloroethene | 4.86 | 0.50 | ug/L | 5.000 | | 97.2 | 60.6-148 | | | |
| 1,2-Dichloroethane | 4.78 | 0.50 | ug/L | 5.000 | | 95.6 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 4.95 | 0.50 | ug/L | 5.000 | | 99.0 | 86.4-119 | | | |
| Methylene chloride | 5.37 | 2.0 | ug/L | 5.000 | | 107 | 74-136 | | | B |
| Tetrachloroethene | 5.11 | 0.50 | ug/L | 5.000 | | 102 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.89 | 0.50 | ug/L | 5.000 | | 97.8 | 80.8-125 | | | |
| Trichloroethene | 4.84 | 0.50 | ug/L | 5.000 | | 96.8 | 80-120 | | | |
| Vinyl chloride | 5.16 | 0.50 | ug/L | 5.000 | | 103 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.89* | | *ug/L* | *5.000* | | *97.8* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.36* | | *ug/L* | *5.000* | | *87.2* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.02* | | *ug/L* | *5.000* | | *100* | *80-120* | | | |
| **Matrix Spike (R006002-MS1)** | **Source: R202307-01** | | | Prepared: 06/02/2020 Analyzed: 06/04/2020 05:35 | | | | | | |
| 1,1-Dichloroethene | 4.88 | 0.50 | ug/L | 5.000 | ND | 97.6 | 35.8-173 | | | |
| 1,2-Dichloroethane | 5.05 | 0.50 | ug/L | 5.000 | ND | 101 | 71.8-143 | | | |
| cis-1,2-Dichloroethene | 5.16 | 0.50 | ug/L | 5.000 | ND | 103 | 81.7-124 | | | |
| Methylene chloride | 6.24 | 2.0 | ug/L | 5.000 | ND | 125 | 64.1-146 | | | B |
| Tetrachloroethene | 4.72 | 0.50 | ug/L | 5.000 | ND | 94.4 | 85.2-114 | | | |
| trans-1,2-Dichloroethene | 4.64 | 0.50 | ug/L | 5.000 | ND | 92.8 | 81.8-123 | | | |
| Trichloroethene | 5.61 | 0.50 | ug/L | 5.000 | ND | 112 | 80-120 | | | |
| Vinyl chloride | 6.14 | 0.50 | ug/L | 5.000 | ND | 123 | 64-147 | | | |
| *Surrogate: Toluene-d8* | *5.00* | | *ug/L* | *5.000* | | *100* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.72* | | *ug/L* | *5.000* | | *94.4* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.31* | | *ug/L* | *5.000* | | *106* | *80-120* | | | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006002 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006002-MSD1)** | **Source: R202307-01** | | | Prepared: 06/02/2020 Analyzed: 06/04/2020 06:02 | | | | | | |
| 1,1-Dichloroethene | 4.70 | 0.50 | ug/L | 5.000 | ND | 94.0 | 35.8-173 | 3.76 | 20 | |
| 1,2-Dichloroethane | 5.17 | 0.50 | ug/L | 5.000 | ND | 103 | 71.8-143 | 2.35 | 20 | |
| cis-1,2-Dichloroethene | 5.16 | 0.50 | ug/L | 5.000 | ND | 103 | 81.7-124 | 0.00 | 20 | |
| Methylene chloride | 5.79 | 2.0 | ug/L | 5.000 | ND | 116 | 64.1-146 | 7.48 | 20 | B |
| Tetrachloroethene | 4.92 | 0.50 | ug/L | 5.000 | ND | 98.4 | 85.2-114 | 4.15 | 20 | |
| trans-1,2-Dichloroethene | 4.50 | 0.50 | ug/L | 5.000 | ND | 90.0 | 81.8-123 | 3.06 | 20 | |
| Trichloroethene | 5.32 | 0.50 | ug/L | 5.000 | ND | 106 | 80-120 | 5.31 | 20 | |
| Vinyl chloride | 6.06 | 0.50 | ug/L | 5.000 | ND | 121 | 64-147 | 1.31 | 20 | |
| *Surrogate: Toluene-d8* | *4.92* | | *ug/L* | *5.000* | | *98.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.70* | | *ug/L* | *5.000* | | *94.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.29* | | *ug/L* | *5.000* | | *106* | *80-120* | | | |
| **Batch R006004 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006004-BLK1)** | | | | Prepared: 06/03/2020 Analyzed: 06/05/2020 09:58 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *500.5* | | *101* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *500.5* | | *88.3* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *516* | | *ug/kg wet* | *500.5* | | *103* | *80-120* | | | |
| **LCS (R006004-BS1)** | | | | Prepared: 06/03/2020 Analyzed: 06/04/2020 04:40 | | | | | | |
| 1,1-Dichloroethane | 252 | 25 | ug/kg wet | 249.5 | | 101 | 73-123 | | | |
| 1,1-Dichloroethene | 222 | 25 | ug/kg wet | 249.5 | | 88.8 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 250 | 25 | ug/kg wet | 249.5 | | 100 | 76-115 | | | |
| Methylene chloride | 276 | 100 | ug/kg wet | 249.5 | | 111 | 62.2-132 | | | |
| Tetrachloroethene | 235 | 25 | ug/kg wet | 249.5 | | 94.0 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 223 | 25 | ug/kg wet | 249.5 | | 89.4 | 73.5-116 | | | |
| Trichloroethene | 253 | 25 | ug/kg wet | 249.5 | | 102 | 79.5-110 | | | |
| Vinyl chloride | 245 | 25 | ug/kg wet | 249.5 | | 98.2 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *244* | | *ug/kg wet* | *249.5* | | *97.6* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *233* | | *ug/kg wet* | *249.5* | | *93.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *264* | | *ug/kg wet* | *249.5* | | *106* | *80-120* | | | |
| **LCS Dup (R006004-BSD1)** | | | | Prepared: 06/03/2020 Analyzed: 06/04/2020 05:07 | | | | | | |
| 1,1-Dichloroethane | 259 | 25 | ug/kg wet | 250.3 | | 104 | 73-123 | 2.84 | 20 | |
| 1,1-Dichloroethene | 257 | 25 | ug/kg wet | 250.3 | | 103 | 56.6-131 | 14.9 | 20 | |
| cis-1,2-Dichloroethene | 266 | 25 | ug/kg wet | 250.3 | | 106 | 76-115 | 6.31 | 20 | |
| Methylene chloride | 296 | 100 | ug/kg wet | 250.3 | | 118 | 62.2-132 | 6.94 | 20 | |
| Tetrachloroethene | 248 | 25 | ug/kg wet | 250.3 | | 99.2 | 73.7-114 | 5.68 | 20 | |
| trans-1,2-Dichloroethene | 241 | 25 | ug/kg wet | 250.3 | | 96.4 | 73.5-116 | 7.83 | 20 | |
| Trichloroethene | 269 | 25 | ug/kg wet | 250.3 | | 108 | 79.5-110 | 6.04 | 20 | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006004 - EPA 5030B** | | | | | | | | | | |
| **LCS Dup (R006004-BSD1)** | | | | Prepared: 06/03/2020 Analyzed: 06/04/2020 05:07 | | | | | | |
| Vinyl chloride | 268 | 25 | ug/kg wet | 250.3 | | 107 | 49.9-123 | 9.06 | 20 | |
| *Surrogate: Toluene-d8* | *265* | | *ug/kg wet* | *250.3* | | *106* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *249* | | *ug/kg wet* | *250.3* | | *99.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *289* | | *ug/kg wet* | *250.3* | | *116* | *80-120* | | | |
| **Batch R006006 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006006-BLK1)** | | | | Prepared: 06/04/2020 Analyzed: 06/04/2020 16:48 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.14* | | *ug/L* | *10.00* | | *91.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7.88* | | *ug/L* | *10.00* | | *78.8* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.44* | | *ug/L* | *10.00* | | *94.4* | *80-120* | | | |
| **LCS (R006006-BS1)** | | | | Prepared: 06/04/2020 Analyzed: 06/05/2020 02:08 | | | | | | |
| 1,1-Dichloroethene | 4.66 | 0.50 | ug/L | 5.000 | | 93.2 | 60.6-148 | | | |
| 1,2-Dichloroethane | 5.37 | 0.50 | ug/L | 5.000 | | 107 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.25 | 0.50 | ug/L | 5.000 | | 105 | 86.4-119 | | | |
| Methylene chloride | 5.79 | 2.0 | ug/L | 5.000 | | 116 | 74-136 | | | |
| Tetrachloroethene | 5.07 | 0.50 | ug/L | 5.000 | | 101 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.48 | 0.50 | ug/L | 5.000 | | 89.6 | 80.8-125 | | | |
| Trichloroethene | 5.08 | 0.50 | ug/L | 5.000 | | 102 | 80-120 | | | |
| Vinyl chloride | 6.19 | 0.50 | ug/L | 5.000 | | 124 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *5.04* | | *ug/L* | *5.000* | | *101* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.81* | | *ug/L* | *5.000* | | *96.2* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.38* | | *ug/L* | *5.000* | | *108* | *80-120* | | | |
| **Matrix Spike (R006006-MS1)** | | **Source: R202308-01** | | Prepared: 06/04/2020 Analyzed: 06/05/2020 01:13 | | | | | | |
| 1,1-Dichloroethene | 4.69 | 0.50 | ug/L | 5.000 | ND | 93.8 | 35.8-173 | | | |
| 1,2-Dichloroethane | 5.04 | 0.50 | ug/L | 5.000 | ND | 101 | 71.8-143 | | | |
| cis-1,2-Dichloroethene | 5.16 | 0.50 | ug/L | 5.000 | ND | 103 | 81.7-124 | | | |
| Methylene chloride | 5.63 | 2.0 | ug/L | 5.000 | ND | 113 | 64.1-146 | | | |
| Tetrachloroethene | 5.00 | 0.50 | ug/L | 5.000 | ND | 100 | 85.2-114 | | | |
| trans-1,2-Dichloroethene | 4.33 | 0.50 | ug/L | 5.000 | ND | 86.6 | 81.8-123 | | | |
| Trichloroethene | 6.41 | 0.50 | ug/L | 5.000 | 1.38 | 101 | 80-120 | | | |
| Vinyl chloride | 6.66 | 0.50 | ug/L | 5.000 | ND | 133 | 64-147 | | | |
| *Surrogate: Toluene-d8* | *4.96* | | *ug/L* | *5.000* | | *99.2* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.76* | | *ug/L* | *5.000* | | *95.2* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.52* | | *ug/L* | *5.000* | | *110* | *80-120* | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006006 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006006-MSD1)** | **Source: R202308-01** | | | Prepared: 06/04/2020 Analyzed: 06/05/2020 01:40 | | | | | | |
| 1,1-Dichloroethene | 5.13 | 0.50 | ug/L | 5.000 | ND | 103 | 35.8-173 | 8.96 | 20 | |
| 1,2-Dichloroethane | 5.22 | 0.50 | ug/L | 5.000 | ND | 104 | 71.8-143 | 3.51 | 20 | |
| cis-1,2-Dichloroethene | 5.10 | 0.50 | ug/L | 5.000 | ND | 102 | 81.7-124 | 1.17 | 20 | |
| Methylene chloride | 5.77 | 2.0 | ug/L | 5.000 | ND | 115 | 64.1-146 | 2.46 | 20 | |
| Tetrachloroethene | 4.91 | 0.50 | ug/L | 5.000 | ND | 98.2 | 85.2-114 | 1.82 | 20 | |
| trans-1,2-Dichloroethene | 4.72 | 0.50 | ug/L | 5.000 | ND | 94.4 | 81.8-123 | 8.62 | 20 | |
| Trichloroethene | 6.12 | 0.50 | ug/L | 5.000 | 1.38 | 94.8 | 80-120 | 4.63 | 20 | |
| Vinyl chloride | 6.54 | 0.50 | ug/L | 5.000 | ND | 131 | 64-147 | 1.82 | 20 | |
| *Surrogate: Toluene-d8* | *5.09* | | *ug/L* | *5.000* | | *102* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.55* | | *ug/L* | *5.000* | | *91.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.14* | | *ug/L* | *5.000* | | *103* | *80-120* | | | |
| **Batch R006007 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006007-BLK1)** | | | | Prepared: 06/04/2020 Analyzed: 06/05/2020 15:44 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *499.0* | | *97.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *499.0* | | *83.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *479* | | *ug/kg wet* | *499.0* | | *96.0* | *80-120* | | | |
| **LCS (R006007-BS1)** | | | | Prepared: 06/04/2020 Analyzed: 06/05/2020 19:44 | | | | | | |
| 1,1-Dichloroethane | 381 | 25 | ug/kg wet | 400.0 | | 95.3 | 73-123 | | | |
| 1,1-Dichloroethene | 357 | 25 | ug/kg wet | 400.0 | | 89.1 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 386 | 25 | ug/kg wet | 400.0 | | 96.4 | 76-115 | | | |
| Methylene chloride | 448 | 100 | ug/kg wet | 400.0 | | 112 | 62.2-132 | | | |
| Tetrachloroethene | 382 | 25 | ug/kg wet | 400.0 | | 95.4 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 350 | 25 | ug/kg wet | 400.0 | | 87.4 | 73.5-116 | | | |
| Trichloroethene | 377 | 25 | ug/kg wet | 400.0 | | 94.3 | 79.5-110 | | | |
| Vinyl chloride | 373 | 25 | ug/kg wet | 400.0 | | 93.1 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *369* | | *ug/kg wet* | *400.0* | | *92.1* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *359* | | *ug/kg wet* | *400.0* | | *89.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *414* | | *ug/kg wet* | *400.0* | | *103* | *80-120* | | | |
| **Matrix Spike (R006007-MS1)** | **Source: R202309-05** | | | Prepared: 06/04/2020 Analyzed: 06/05/2020 18:48 | | | | | | |
| 1,1-Dichloroethane | 227 | 26 | ug/kg dry | 261.6 | ND | 86.8 | 64.5-113 | | | |
| 1,1-Dichloroethene | 218 | 26 | ug/kg dry | 261.6 | ND | 83.2 | 42-122 | | | |
| cis-1,2-Dichloroethene | 236 | 26 | ug/kg dry | 261.6 | ND | 90.4 | 65.9-108 | | | |
| Methylene chloride | 254 | 100 | ug/kg dry | 261.6 | ND | 97.2 | 56.7-120 | | | |
| Tetrachloroethene | 244 | 26 | ug/kg dry | 261.6 | ND | 93.4 | 54-121 | | | |
| trans-1,2-Dichloroethene | 217 | 26 | ug/kg dry | 261.6 | ND | 82.8 | 61.1-110 | | | |
| Trichloroethene | 247 | 26 | ug/kg dry | 261.6 | 6.84 | 91.8 | 63.1-112 | | | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006007 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006007-MS1)** | | **Source: R202309-05** | | Prepared: 06/04/2020 Analyzed: 06/05/2020 18:48 | | | | | | |
| Vinyl chloride | 199 | 26 | ug/kg dry | 261.6 | ND | 76.0 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *235* | | *ug/kg dry* | *261.6* | | *90.0* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *223* | | *ug/kg dry* | *261.6* | | *85.2* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *252* | | *ug/kg dry* | *261.6* | | *96.4* | *80-120* | | | |
| **Matrix Spike Dup (R006007-MSD1)** | | **Source: R202309-05** | | Prepared: 06/04/2020 Analyzed: 06/05/2020 19:16 | | | | | | |
| 1,1-Dichloroethane | 229 | 27 | ug/kg dry | 272.6 | ND | 84.0 | 64.5-113 | 0.863 | 20 | |
| 1,1-Dichloroethene | 195 | 27 | ug/kg dry | 272.6 | ND | 71.6 | 42-122 | 10.9 | 20 | |
| cis-1,2-Dichloroethene | 232 | 27 | ug/kg dry | 272.6 | ND | 85.2 | 65.9-108 | 1.78 | 20 | |
| Methylene chloride | 249 | 110 | ug/kg dry | 272.6 | ND | 91.4 | 56.7-120 | 2.01 | 20 | |
| Tetrachloroethene | 231 | 27 | ug/kg dry | 272.6 | ND | 84.6 | 54-121 | 5.75 | 20 | |
| trans-1,2-Dichloroethene | 207 | 27 | ug/kg dry | 272.6 | ND | 75.8 | 61.1-110 | 4.69 | 20 | |
| Trichloroethene | 239 | 27 | ug/kg dry | 272.6 | 6.84 | 85.3 | 63.1-112 | 3.11 | 20 | |
| Vinyl chloride | 194 | 27 | ug/kg dry | 272.6 | ND | 71.0 | 30.4-112 | 2.66 | 20 | |
| *Surrogate: Toluene-d8* | *230* | | *ug/kg dry* | *272.6* | | *84.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *213* | | *ug/kg dry* | *272.6* | | *78.0* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *249* | | *ug/kg dry* | *272.6* | | *91.2* | *80-120* | | | |
| **Batch R006009 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006009-BLK1)** | | | | Prepared: 06/05/2020 Analyzed: 06/05/2020 21:36 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.43* | | *ug/L* | *10.00* | | *94.3* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.39* | | *ug/L* | *10.00* | | *83.9* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.75* | | *ug/L* | *10.00* | | *97.5* | *80-120* | | | |
| **LCS (R006009-BS1)** | | | | Prepared: 06/05/2020 Analyzed: 06/06/2020 07:11 | | | | | | |
| 1,1-Dichloroethene | 4.83 | 0.50 | ug/L | 5.000 | | 96.6 | 60.6-148 | | | |
| 1,2-Dichloroethane | 4.94 | 0.50 | ug/L | 5.000 | | 98.8 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.18 | 0.50 | ug/L | 5.000 | | 104 | 86.4-119 | | | |
| Methylene chloride | 5.75 | 2.0 | ug/L | 5.000 | | 115 | 74-136 | | | |
| Tetrachloroethene | 4.81 | 0.50 | ug/L | 5.000 | | 96.2 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.63 | 0.50 | ug/L | 5.000 | | 92.6 | 80.8-125 | | | |
| Trichloroethene | 4.80 | 0.50 | ug/L | 5.000 | | 96.0 | 80-120 | | | |
| Vinyl chloride | 6.25 | 0.50 | ug/L | 5.000 | | 125 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.85* | | *ug/L* | *5.000* | | *97.0* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.60* | | *ug/L* | *5.000* | | *92.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.11* | | *ug/L* | *5.000* | | *102* | *80-120* | | | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006009 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006009-MS1)** | **Source: R202311-01** | | | Prepared: 06/05/2020 Analyzed: 06/06/2020 06:16 | | | | | | |
| 1,1-Dichloroethene | 940 | 100 | ug/L | 1000 | ND | 94.0 | 35.8-173 | | | D |
| 1,2-Dichloroethane | 1020 | 100 | ug/L | 1000 | ND | 102 | 71.8-143 | | | D |
| cis-1,2-Dichloroethene | 1400 | 100 | ug/L | 1000 | 414 | 98.8 | 81.7-124 | | | D |
| Methylene chloride | 1130 | 400 | ug/L | 1000 | ND | 113 | 64.1-146 | | | D |
| Tetrachloroethene | 966 | 100 | ug/L | 1000 | ND | 96.6 | 85.2-114 | | | D |
| trans-1,2-Dichloroethene | 886 | 100 | ug/L | 1000 | ND | 88.6 | 81.8-123 | | | D |
| Trichloroethene | 6120 | 100 | ug/L | 1000 | 5150 | 96.8 | 80-120 | | | D |
| Vinyl chloride | 1190 | 100 | ug/L | 1000 | ND | 119 | 64-147 | | | D |
| *Surrogate: Toluene-d8* | *966* | | *ug/L* | *1000* | | *96.6* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *920* | | *ug/L* | *1000* | | *92.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *1050* | | *ug/L* | *1000* | | *105* | *80-120* | | | |
| **Matrix Spike Dup (R006009-MSD1)** | **Source: R202311-01** | | | Prepared: 06/05/2020 Analyzed: 06/06/2020 06:43 | | | | | | |
| 1,1-Dichloroethene | 942 | 100 | ug/L | 1000 | ND | 94.2 | 35.8-173 | 0.213 | 20 | D |
| 1,2-Dichloroethane | 1060 | 100 | ug/L | 1000 | ND | 106 | 71.8-143 | 4.04 | 20 | D |
| cis-1,2-Dichloroethene | 1470 | 100 | ug/L | 1000 | 414 | 106 | 81.7-124 | 4.74 | 20 | D |
| Methylene chloride | 1120 | 400 | ug/L | 1000 | ND | 112 | 64.1-146 | 1.07 | 20 | D |
| Tetrachloroethene | 972 | 100 | ug/L | 1000 | ND | 97.2 | 85.2-114 | 0.619 | 20 | D |
| trans-1,2-Dichloroethene | 948 | 100 | ug/L | 1000 | ND | 94.8 | 81.8-123 | 6.76 | 20 | D |
| Trichloroethene | 6300 | 100 | ug/L | 1000 | 5150 | 115 | 80-120 | 2.93 | 20 | D |
| Vinyl chloride | 1230 | 100 | ug/L | 1000 | ND | 123 | 64-147 | 3.47 | 20 | D |
| *Surrogate: Toluene-d8* | *988* | | *ug/L* | *1000* | | *98.8* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *938* | | *ug/L* | *1000* | | *93.8* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *1100* | | *ug/L* | *1000* | | *110* | *80-120* | | | |
| **Batch R006010 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006010-BLK1)** | | | | Prepared: 06/05/2020 Analyzed: 06/06/2020 03:04 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *500.5* | | *98.7* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *500.5* | | *89.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *515* | | *ug/kg wet* | *500.5* | | *103* | *80-120* | | | |
| **LCS (R006010-BS1)** | | | | Prepared: 06/05/2020 Analyzed: 06/06/2020 03:59 | | | | | | |
| 1,1-Dichloroethane | 221 | 25 | ug/kg wet | 249.8 | | 88.4 | 73-123 | | | |
| 1,1-Dichloroethene | 205 | 25 | ug/kg wet | 249.8 | | 82.2 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 226 | 25 | ug/kg wet | 249.8 | | 90.6 | 76-115 | | | |
| Methylene chloride | 245 | 100 | ug/kg wet | 249.8 | | 98.2 | 62.2-132 | | | |
| Tetrachloroethene | 198 | 25 | ug/kg wet | 249.8 | | 79.2 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 200 | 25 | ug/kg wet | 249.8 | | 80.0 | 73.5-116 | | | |
| Trichloroethene | 224 | 25 | ug/kg wet | 249.8 | | 89.6 | 79.5-110 | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006010 - EPA 5030B** | | | | | | | | | | |
| **LCS (R006010-BS1)** | | | | Prepared: 06/05/2020 Analyzed: 06/06/2020 03:59 | | | | | | |
| Vinyl chloride | 229 | 25 | ug/kg wet | 249.8 | | 91.6 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *220* | | *ug/kg wet* | *249.8* | | *88.0* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *215* | | *ug/kg wet* | *249.8* | | *86.2* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *241* | | *ug/kg wet* | *249.8* | | *96.4* | *80-120* | | | |
| **Matrix Spike (R006010-MS1)** | | **Source: R202310-02** | | Prepared: 06/05/2020 Analyzed: 06/06/2020 04:26 | | | | | | |
| 1,1-Dichloroethane | 271 | 28 | ug/kg dry | 284.6 | ND | 95.4 | 64.5-113 | | | |
| 1,1-Dichloroethene | 245 | 28 | ug/kg dry | 284.6 | ND | 86.0 | 42-122 | | | |
| cis-1,2-Dichloroethene | 262 | 28 | ug/kg dry | 284.6 | ND | 92.2 | 65.9-108 | | | |
| Methylene chloride | 286 | 110 | ug/kg dry | 284.6 | ND | 101 | 56.7-120 | | | |
| Tetrachloroethene | 252 | 28 | ug/kg dry | 284.6 | ND | 88.4 | 54-121 | | | |
| trans-1,2-Dichloroethene | 244 | 28 | ug/kg dry | 284.6 | ND | 85.6 | 61.1-110 | | | |
| Trichloroethene | 261 | 28 | ug/kg dry | 284.6 | ND | 91.8 | 63.1-112 | | | |
| Vinyl chloride | 265 | 28 | ug/kg dry | 284.6 | ND | 93.0 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *263* | | *ug/kg dry* | *284.6* | | *92.6* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *244* | | *ug/kg dry* | *284.6* | | *85.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *282* | | *ug/kg dry* | *284.6* | | *99.2* | *80-120* | | | |
| **Matrix Spike Dup (R006010-MSD1)** | | **Source: R202310-02** | | Prepared: 06/05/2020 Analyzed: 06/06/2020 04:54 | | | | | | |
| 1,1-Dichloroethane | 289 | 31 | ug/kg dry | 312.4 | ND | 92.4 | 64.5-113 | 6.13 | 20 | |
| 1,1-Dichloroethene | 261 | 31 | ug/kg dry | 312.4 | ND | 83.6 | 42-122 | 6.49 | 20 | |
| cis-1,2-Dichloroethene | 297 | 31 | ug/kg dry | 312.4 | ND | 95.0 | 65.9-108 | 12.3 | 20 | |
| Methylene chloride | 321 | 120 | ug/kg dry | 312.4 | ND | 103 | 56.7-120 | 11.5 | 20 | |
| Tetrachloroethene | 267 | 31 | ug/kg dry | 312.4 | ND | 85.4 | 54-121 | 5.87 | 20 | |
| trans-1,2-Dichloroethene | 264 | 31 | ug/kg dry | 312.4 | ND | 84.4 | 61.1-110 | 7.91 | 20 | |
| Trichloroethene | 285 | 31 | ug/kg dry | 312.4 | ND | 91.2 | 63.1-112 | 8.66 | 20 | |
| Vinyl chloride | 283 | 31 | ug/kg dry | 312.4 | ND | 90.6 | 30.4-112 | 6.71 | 20 | |
| *Surrogate: Toluene-d8* | *289* | | *ug/kg dry* | *312.4* | | *92.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *277* | | *ug/kg dry* | *312.4* | | *88.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *307* | | *ug/kg dry* | *312.4* | | *98.2* | *80-120* | | | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006012 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006012-BLK1)** | | | | Prepared: 06/08/2020 Analyzed: 06/08/2020 16:06 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *500.5* | | *79.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *500.5* | | *69.5* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *408* | | *ug/kg wet* | *500.5* | | *81.6* | *80-120* | | | |
| **LCS (R006012-BS1)** | | | | Prepared: 06/08/2020 Analyzed: 06/09/2020 13:30 | | | | | | |
| 1,1-Dichloroethane | 249 | 25 | ug/kg wet | 249.8 | | 99.8 | 73-123 | | | |
| 1,1-Dichloroethene | 215 | 25 | ug/kg wet | 249.8 | | 86.2 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 245 | 25 | ug/kg wet | 249.8 | | 98.0 | 76-115 | | | |
| Methylene chloride | 291 | 100 | ug/kg wet | 249.8 | | 116 | 62.2-132 | | | |
| Tetrachloroethene | 232 | 25 | ug/kg wet | 249.8 | | 92.8 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 217 | 25 | ug/kg wet | 249.8 | | 87.0 | 73.5-116 | | | |
| Trichloroethene | 227 | 25 | ug/kg wet | 249.8 | | 90.8 | 79.5-110 | | | |
| Vinyl chloride | 221 | 25 | ug/kg wet | 249.8 | | 88.4 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *239* | | *ug/kg wet* | *249.8* | | *95.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *243* | | *ug/kg wet* | *249.8* | | *97.2* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *280* | | *ug/kg wet* | *249.8* | | *112* | *80-120* | | | |
| **Matrix Spike (R006012-MS1)** | | **Source: R202403-01** | | Prepared: 06/08/2020 Analyzed: 06/09/2020 15:28 | | | | | | |
| 1,1-Dichloroethane | 255 | 27 | ug/kg dry | 267.7 | ND | 95.4 | 64.5-113 | | | |
| 1,1-Dichloroethene | 228 | 27 | ug/kg dry | 267.7 | ND | 85.0 | 42-122 | | | |
| cis-1,2-Dichloroethene | 255 | 27 | ug/kg dry | 267.7 | ND | 95.2 | 65.9-108 | | | |
| Methylene chloride | 270 | 110 | ug/kg dry | 267.7 | ND | 101 | 56.7-120 | | | |
| Tetrachloroethene | 239 | 27 | ug/kg dry | 267.7 | ND | 89.4 | 54-121 | | | |
| trans-1,2-Dichloroethene | 221 | 27 | ug/kg dry | 267.7 | ND | 82.4 | 61.1-110 | | | |
| Trichloroethene | 243 | 27 | ug/kg dry | 267.7 | ND | 90.6 | 63.1-112 | | | |
| Vinyl chloride | 233 | 27 | ug/kg dry | 267.7 | ND | 87.2 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *258* | | *ug/kg dry* | *267.7* | | *96.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *237* | | *ug/kg dry* | *267.7* | | *88.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *263* | | *ug/kg dry* | *267.7* | | *98.4* | *80-120* | | | |
| **Matrix Spike Dup (R006012-MSD1)** | | **Source: R202403-01** | | Prepared: 06/08/2020 Analyzed: 06/09/2020 16:01 | | | | | | |
| 1,1-Dichloroethane | 263 | 29 | ug/kg dry | 286.3 | ND | 91.8 | 64.5-113 | 2.87 | 20 | |
| 1,1-Dichloroethene | 238 | 29 | ug/kg dry | 286.3 | ND | 83.2 | 42-122 | 4.57 | 20 | |
| cis-1,2-Dichloroethene | 248 | 29 | ug/kg dry | 286.3 | ND | 86.6 | 65.9-108 | 2.75 | 20 | |
| Methylene chloride | 294 | 110 | ug/kg dry | 286.3 | ND | 103 | 56.7-120 | 8.28 | 20 | |
| Tetrachloroethene | 246 | 29 | ug/kg dry | 286.3 | ND | 85.8 | 54-121 | 2.60 | 20 | |
| trans-1,2-Dichloroethene | 233 | 29 | ug/kg dry | 286.3 | ND | 81.2 | 61.1-110 | 5.25 | 20 | |
| Trichloroethene | 238 | 29 | ug/kg dry | 286.3 | ND | 83.2 | 63.1-112 | 1.81 | 20 | |
| Vinyl chloride | 219 | 29 | ug/kg dry | 286.3 | ND | 76.6 | 30.4-112 | 6.24 | 20 | |
| *Surrogate: Toluene-d8* | *257* | | *ug/kg dry* | *286.3* | | *89.6* | *61.9-110* | | | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006012 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006012-MSD1)** | **Source: R202403-01** | | | Prepared: 06/08/2020 Analyzed: 06/09/2020 16:01 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *239* | | *ug/kg dry* | *286.3* | | *83.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *289* | | *ug/kg dry* | *286.3* | | *101* | *80-120* | | | |
| **Batch R006013 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006013-BLK1)** | | | | Prepared: 06/08/2020 Analyzed: 06/08/2020 10:21 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.45* | | *ug/L* | *10.00* | | *94.5* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.10* | | *ug/L* | *10.00* | | *81.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.54* | | *ug/L* | *10.00* | | *95.4* | *80-120* | | | |
| **LCS (R006013-BS1)** | | | | Prepared: 06/08/2020 Analyzed: 06/09/2020 13:59 | | | | | | |
| 1,1-Dichloroethene | 4.64 | 0.50 | ug/L | 5.000 | | 92.8 | 60.6-148 | | | |
| 1,2-Dichloroethane | 5.29 | 0.50 | ug/L | 5.000 | | 106 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 4.94 | 0.50 | ug/L | 5.000 | | 98.8 | 86.4-119 | | | |
| Methylene chloride | 5.56 | 2.0 | ug/L | 5.000 | | 111 | 74-136 | | | |
| Tetrachloroethene | 4.79 | 0.50 | ug/L | 5.000 | | 95.8 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.38 | 0.50 | ug/L | 5.000 | | 87.6 | 80.8-125 | | | |
| Trichloroethene | 4.78 | 0.50 | ug/L | 5.000 | | 95.6 | 80-120 | | | |
| Vinyl chloride | 5.96 | 0.50 | ug/L | 5.000 | | 119 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.94* | | *ug/L* | *5.000* | | *98.8* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.47* | | *ug/L* | *5.000* | | *89.4* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.35* | | *ug/L* | *5.000* | | *107* | *80-120* | | | |
| **Matrix Spike (R006013-MS1)** | **Source: R202402-01** | | | Prepared: 06/08/2020 Analyzed: 06/09/2020 14:28 | | | | | | |
| 1,1-Dichloroethene | 9100 | 1000 | ug/L | 10000 | ND | 91.0 | 35.8-173 | | | D |
| 1,2-Dichloroethane | 10600 | 1000 | ug/L | 10000 | ND | 106 | 71.8-143 | | | D |
| cis-1,2-Dichloroethene | 11900 | 1000 | ug/L | 10000 | 1510 | 104 | 81.7-124 | | | D |
| Methylene chloride | 10800 | 4000 | ug/L | 10000 | ND | 108 | 64.1-146 | | | D |
| Tetrachloroethene | 9180 | 1000 | ug/L | 10000 | ND | 91.8 | 85.2-114 | | | D |
| trans-1,2-Dichloroethene | 8500 | 1000 | ug/L | 10000 | ND | 85.0 | 81.8-123 | | | D |
| Trichloroethene | 77800 | 1000 | ug/L | 10000 | 66300 | 115 | 80-120 | | | D |
| Vinyl chloride | 12200 | 1000 | ug/L | 10000 | ND | 122 | 64-147 | | | D |
| *Surrogate: Toluene-d8* | *9880* | | *ug/L* | *10000* | | *98.8* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8620* | | *ug/L* | *10000* | | *86.2* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *10800* | | *ug/L* | *10000* | | *108* | *80-120* | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006013 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006013-MSD1)** | **Source: R202402-01** | | | Prepared: 06/08/2020 Analyzed: 06/09/2020 14:58 | | | | | | |
| 1,1-Dichloroethene | 9440 | 1000 | ug/L | 10000 | ND | 94.4 | 35.8-173 | 3.67 | 20 | D |
| 1,2-Dichloroethane | 10700 | 1000 | ug/L | 10000 | ND | 107 | 71.8-143 | 0.941 | 20 | D |
| cis-1,2-Dichloroethene | 11900 | 1000 | ug/L | 10000 | 1510 | 103 | 81.7-124 | 0.337 | 20 | D |
| Methylene chloride | 11100 | 4000 | ug/L | 10000 | ND | 111 | 64.1-146 | 2.93 | 20 | D |
| Tetrachloroethene | 9560 | 1000 | ug/L | 10000 | ND | 95.6 | 85.2-114 | 4.06 | 20 | D |
| trans-1,2-Dichloroethene | 8620 | 1000 | ug/L | 10000 | ND | 86.2 | 81.8-123 | 1.40 | 20 | D |
| Trichloroethene | 76300 | 1000 | ug/L | 10000 | 66300 | 100 | 80-120 | 1.95 | 20 | D |
| Vinyl chloride | 12500 | 1000 | ug/L | 10000 | ND | 125 | 64-147 | 1.94 | 20 | D |
| *Surrogate: Toluene-d8* | *9740* | | *ug/L* | *10000* | | *97.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *9220* | | *ug/L* | *10000* | | *92.2* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *10900* | | *ug/L* | *10000* | | *109* | *80-120* | | | |
| **Batch R006015 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006015-BLK1)** | | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 19:28 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.33* | | *ug/L* | *10.00* | | *93.3* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.08* | | *ug/L* | *10.00* | | *80.8* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.46* | | *ug/L* | *10.00* | | *94.6* | *80-120* | | | |
| **LCS (R006015-BS1)** | | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 17:33 | | | | | | |
| 1,1-Dichloroethene | 4.69 | 0.50 | ug/L | 5.000 | | 93.8 | 60.6-148 | | | |
| 1,2-Dichloroethane | 5.57 | 0.50 | ug/L | 5.000 | | 111 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.04 | 0.50 | ug/L | 5.000 | | 101 | 86.4-119 | | | |
| Methylene chloride | 5.50 | 2.0 | ug/L | 5.000 | | 110 | 74-136 | | | |
| Tetrachloroethene | 4.85 | 0.50 | ug/L | 5.000 | | 97.0 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.54 | 0.50 | ug/L | 5.000 | | 90.8 | 80.8-125 | | | |
| Trichloroethene | 4.93 | 0.50 | ug/L | 5.000 | | 98.6 | 80-120 | | | |
| Vinyl chloride | 6.05 | 0.50 | ug/L | 5.000 | | 121 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.88* | | *ug/L* | *5.000* | | *97.6* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.74* | | *ug/L* | *5.000* | | *94.8* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.39* | | *ug/L* | *5.000* | | *108* | *80-120* | | | |
| **Matrix Spike (R006015-MS1)** | **Source: R202404-01** | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 16:32 | | | | | | |
| 1,1-Dichloroethene | 4.84 | 0.50 | ug/L | 5.000 | ND | 96.8 | 35.8-173 | | | |
| 1,2-Dichloroethane | 5.25 | 0.50 | ug/L | 5.000 | ND | 105 | 71.8-143 | | | |
| cis-1,2-Dichloroethene | 5.04 | 0.50 | ug/L | 5.000 | ND | 101 | 81.7-124 | | | |
| Methylene chloride | 5.62 | 2.0 | ug/L | 5.000 | ND | 112 | 64.1-146 | | | |
| Tetrachloroethene | 4.88 | 0.50 | ug/L | 5.000 | ND | 97.6 | 85.2-114 | | | |
| trans-1,2-Dichloroethene | 4.62 | 0.50 | ug/L | 5.000 | ND | 92.4 | 81.8-123 | | | |
| Trichloroethene | 4.98 | 0.50 | ug/L | 5.000 | ND | 99.6 | 80-120 | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006015 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006015-MS1)** | **Source: R202404-01** | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 16:32 | | | | | | |
| Vinyl chloride | 5.88 | 0.50 | ug/L | 5.000 | ND | 118 | 64-147 | | | |
| *Surrogate: Toluene-d8* | *4.92* | | *ug/L* | *5.000* | | *98.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.59* | | *ug/L* | *5.000* | | *91.8* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.35* | | *ug/L* | *5.000* | | *107* | *80-120* | | | |
| **Matrix Spike Dup (R006015-MSD1)** | **Source: R202404-01** | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 17:03 | | | | | | |
| 1,1-Dichloroethene | 4.75 | 0.50 | ug/L | 5.000 | ND | 95.0 | 35.8-173 | 1.88 | 20 | |
| 1,2-Dichloroethane | 5.32 | 0.50 | ug/L | 5.000 | ND | 106 | 71.8-143 | 1.32 | 20 | |
| cis-1,2-Dichloroethene | 4.99 | 0.50 | ug/L | 5.000 | ND | 99.8 | 81.7-124 | 0.997 | 20 | |
| Methylene chloride | 5.74 | 2.0 | ug/L | 5.000 | ND | 115 | 64.1-146 | 2.11 | 20 | |
| Tetrachloroethene | 4.93 | 0.50 | ug/L | 5.000 | ND | 98.6 | 85.2-114 | 1.02 | 20 | |
| trans-1,2-Dichloroethene | 4.68 | 0.50 | ug/L | 5.000 | ND | 93.6 | 81.8-123 | 1.29 | 20 | |
| Trichloroethene | 4.89 | 0.50 | ug/L | 5.000 | ND | 97.8 | 80-120 | 1.82 | 20 | |
| Vinyl chloride | 5.90 | 0.50 | ug/L | 5.000 | ND | 118 | 64-147 | 0.340 | 20 | |
| *Surrogate: Toluene-d8* | *4.80* | | *ug/L* | *5.000* | | *96.0* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.53* | | *ug/L* | *5.000* | | *90.6* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *4.95* | | *ug/L* | *5.000* | | *99.0* | *80-120* | | | |
| **Batch R006016 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006016-BLK1)** | | | | Prepared: 06/09/2020 Analyzed: 06/10/2020 10:03 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *499.0* | | *95.3* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *499.0* | | *78.5* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *483* | | *ug/kg wet* | *499.0* | | *96.7* | *80-120* | | | |
| **LCS (R006016-BS1)** | | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 23:39 | | | | | | |
| 1,1-Dichloroethane | 252 | 25 | ug/kg wet | 250.8 | | 100 | 73-123 | | | |
| 1,1-Dichloroethene | 223 | 25 | ug/kg wet | 250.8 | | 89.0 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 245 | 25 | ug/kg wet | 250.8 | | 97.8 | 76-115 | | | |
| Methylene chloride | 280 | 100 | ug/kg wet | 250.8 | | 112 | 62.2-132 | | | |
| Tetrachloroethene | 241 | 25 | ug/kg wet | 250.8 | | 96.2 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 228 | 25 | ug/kg wet | 250.8 | | 90.8 | 73.5-116 | | | |
| Trichloroethene | 235 | 25 | ug/kg wet | 250.8 | | 93.6 | 79.5-110 | | | |
| Vinyl chloride | 252 | 25 | ug/kg wet | 250.8 | | 101 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *250* | | *ug/kg wet* | *250.8* | | *99.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *232* | | *ug/kg wet* | *250.8* | | *92.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *266* | | *ug/kg wet* | *250.8* | | *106* | *80-120* | | | |

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|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006016 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006016-MS1)** | **Source: R202405-02** | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 22:44 | | | | | | |
| 1,1-Dichloroethane | 235 | 26 | ug/kg dry | 259.6 | ND | 90.6 | 64.5-113 | | | |
| 1,1-Dichloroethene | 209 | 26 | ug/kg dry | 259.6 | ND | 80.4 | 42-122 | | | |
| cis-1,2-Dichloroethene | 250 | 26 | ug/kg dry | 259.6 | ND | 96.2 | 65.9-108 | | | |
| Methylene chloride | 277 | 100 | ug/kg dry | 259.6 | ND | 107 | 56.7-120 | | | |
| Tetrachloroethene | 229 | 26 | ug/kg dry | 259.6 | ND | 88.4 | 54-121 | | | |
| trans-1,2-Dichloroethene | 223 | 26 | ug/kg dry | 259.6 | ND | 85.8 | 61.1-110 | | | |
| Trichloroethene | 250 | 26 | ug/kg dry | 259.6 | ND | 96.4 | 63.1-112 | | | |
| Vinyl chloride | 227 | 26 | ug/kg dry | 259.6 | ND | 87.6 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *239* | | *ug/kg dry* | *259.6* | | *92.2* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *220* | | *ug/kg dry* | *259.6* | | *84.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *256* | | *ug/kg dry* | *259.6* | | *98.6* | *80-120* | | | |
| **Matrix Spike Dup (R006016-MSD1)** | **Source: R202405-02** | | | Prepared: 06/09/2020 Analyzed: 06/09/2020 23:12 | | | | | | |
| 1,1-Dichloroethane | 239 | 26 | ug/kg dry | 257.4 | ND | 92.8 | 64.5-113 | 1.56 | 20 | |
| 1,1-Dichloroethene | 205 | 26 | ug/kg dry | 257.4 | ND | 79.8 | 42-122 | 1.59 | 20 | |
| cis-1,2-Dichloroethene | 239 | 26 | ug/kg dry | 257.4 | ND | 92.8 | 65.9-108 | 4.43 | 20 | |
| Methylene chloride | 254 | 100 | ug/kg dry | 257.4 | ND | 98.8 | 56.7-120 | 8.62 | 20 | |
| Tetrachloroethene | 229 | 26 | ug/kg dry | 257.4 | ND | 89.0 | 54-121 | 0.160 | 20 | |
| trans-1,2-Dichloroethene | 214 | 26 | ug/kg dry | 257.4 | ND | 83.2 | 61.1-110 | 3.91 | 20 | |
| Trichloroethene | 254 | 26 | ug/kg dry | 257.4 | ND | 98.8 | 63.1-112 | 1.62 | 20 | |
| Vinyl chloride | 221 | 26 | ug/kg dry | 257.4 | ND | 85.8 | 30.4-112 | 2.91 | 20 | |
| *Surrogate: Toluene-d8* | *241* | | *ug/kg dry* | *257.4* | | *93.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *223* | | *ug/kg dry* | *257.4* | | *86.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *251* | | *ug/kg dry* | *257.4* | | *97.6* | *80-120* | | | |
| **Batch R006018 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006018-BLK1)** | | | | Prepared: 06/10/2020 Analyzed: 06/10/2020 16:37 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.08* | | *ug/L* | *10.00* | | *90.8* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *7.53* | | *ug/L* | *10.00* | | *75.3* | *78.3-109* | | | *S* |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.64* | | *ug/L* | *10.00* | | *96.4* | *80-120* | | | |
| **LCS (R006018-BS1)** | | | | Prepared: 06/10/2020 Analyzed: 06/10/2020 20:20 | | | | | | |
| 1,1-Dichloroethene | 4.59 | 0.50 | ug/L | 5.000 | | 91.8 | 60.6-148 | | | |
| 1,2-Dichloroethane | 4.92 | 0.50 | ug/L | 5.000 | | 98.4 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.00 | 0.50 | ug/L | 5.000 | | 100 | 86.4-119 | | | |
| Methylene chloride | 5.11 | 2.0 | ug/L | 5.000 | | 102 | 74-136 | | | |
| Tetrachloroethene | 5.17 | 0.50 | ug/L | 5.000 | | 103 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.57 | 0.50 | ug/L | 5.000 | | 91.4 | 80.8-125 | | | |
| Trichloroethene | 4.81 | 0.50 | ug/L | 5.000 | | 96.2 | 80-120 | | | |

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| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006018 - EPA 5030B** | | | | | | | | | | |
| **LCS (R006018-BS1)** | | | | Prepared: 06/10/2020 Analyzed: 06/10/2020 20:20 | | | | | | |
| Vinyl chloride | 6.14 | 0.50 | ug/L | 5.000 | | 123 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.91* | | *ug/L* | *5.000* | | *98.2* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.21* | | *ug/L* | *5.000* | | *84.2* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.19* | | *ug/L* | *5.000* | | *104* | *80-120* | | | |
| **Matrix Spike (R006018-MS1)** | | **Source: R202406-01RE1** | | Prepared: 06/10/2020 Analyzed: 06/10/2020 19:25 | | | | | | |
| 1,1-Dichloroethene | 47.1 | 5.0 | ug/L | 50.00 | ND | 94.2 | 35.8-173 | | | D |
| 1,2-Dichloroethane | 50.3 | 5.0 | ug/L | 50.00 | ND | 101 | 71.8-143 | | | D |
| cis-1,2-Dichloroethene | 53.0 | 5.0 | ug/L | 50.00 | 2.40 | 101 | 81.7-124 | | | D |
| Methylene chloride | 52.4 | 20 | ug/L | 50.00 | ND | 105 | 64.1-146 | | | D |
| Tetrachloroethene | 51.1 | 5.0 | ug/L | 50.00 | ND | 102 | 85.2-114 | | | D |
| trans-1,2-Dichloroethene | 46.8 | 5.0 | ug/L | 50.00 | ND | 93.6 | 81.8-123 | | | D |
| Trichloroethene | 205 | 5.0 | ug/L | 50.00 | 163 | 83.2 | 80-120 | | | D |
| Vinyl chloride | 61.9 | 5.0 | ug/L | 50.00 | ND | 124 | 64-147 | | | D |
| *Surrogate: Toluene-d8* | *48.8* | | *ug/L* | *50.00* | | *97.6* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *43.0* | | *ug/L* | *50.00* | | *86.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *53.3* | | *ug/L* | *50.00* | | *107* | *80-120* | | | |
| **Matrix Spike Dup (R006018-MSD1)** | | **Source: R202406-01RE1** | | Prepared: 06/10/2020 Analyzed: 06/10/2020 19:53 | | | | | | |
| 1,1-Dichloroethene | 48.1 | 5.0 | ug/L | 50.00 | ND | 96.2 | 35.8-173 | 2.10 | 20 | D |
| 1,2-Dichloroethane | 50.2 | 5.0 | ug/L | 50.00 | ND | 100 | 71.8-143 | 0.199 | 20 | D |
| cis-1,2-Dichloroethene | 52.1 | 5.0 | ug/L | 50.00 | 2.40 | 99.4 | 81.7-124 | 1.71 | 20 | D |
| Methylene chloride | 55.2 | 20 | ug/L | 50.00 | ND | 110 | 64.1-146 | 5.20 | 20 | D |
| Tetrachloroethene | 53.7 | 5.0 | ug/L | 50.00 | ND | 107 | 85.2-114 | 4.96 | 20 | D |
| trans-1,2-Dichloroethene | 45.7 | 5.0 | ug/L | 50.00 | ND | 91.4 | 81.8-123 | 2.38 | 20 | D |
| Trichloroethene | 201 | 5.0 | ug/L | 50.00 | 163 | 75.4 | 80-120 | 1.92 | 20 | M, D |
| Vinyl chloride | 60.9 | 5.0 | ug/L | 50.00 | ND | 122 | 64-147 | 1.63 | 20 | D |
| *Surrogate: Toluene-d8* | *48.7* | | *ug/L* | *50.00* | | *97.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *45.2* | | *ug/L* | *50.00* | | *90.4* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *52.6* | | *ug/L* | *50.00* | | *105* | *80-120* | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006019 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006019-BLK1)** | | | | Prepared: 06/10/2020 Analyzed: 06/10/2020 16:08 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *250.5* | | *108* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *250.5* | | *90.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *282* | | *ug/kg wet* | *250.5* | | *112* | *80-120* | | | |
| **LCS (R006019-BS1)** | | | | Prepared: 06/10/2020 Analyzed: 06/11/2020 17:55 | | | | | | |
| 1,1-Dichloroethane | 234 | 25 | ug/kg wet | 250.0 | | 93.4 | 73-123 | | | |
| 1,1-Dichloroethene | 232 | 25 | ug/kg wet | 250.0 | | 92.8 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 237 | 25 | ug/kg wet | 250.0 | | 94.6 | 76-115 | | | |
| Methylene chloride | 227 | 100 | ug/kg wet | 250.0 | | 90.6 | 62.2-132 | | | |
| Tetrachloroethene | 239 | 25 | ug/kg wet | 250.0 | | 95.4 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 240 | 25 | ug/kg wet | 250.0 | | 96.0 | 73.5-116 | | | |
| Trichloroethene | 227 | 25 | ug/kg wet | 250.0 | | 90.8 | 79.5-110 | | | |
| Vinyl chloride | 195 | 25 | ug/kg wet | 250.0 | | 77.8 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *237* | | *ug/kg wet* | *250.0* | | *94.6* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *234* | | *ug/kg wet* | *250.0* | | *93.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *238* | | *ug/kg wet* | *250.0* | | *95.0* | *80-120* | | | |
| **Matrix Spike (R006019-MS1)** | **Source: R202407-01** | | | Prepared: 06/10/2020 Analyzed: 06/10/2020 18:30 | | | | | | |
| 1,1-Dichloroethane | 248 | 28 | ug/kg dry | 278.6 | ND | 89.0 | 64.5-113 | | | |
| 1,1-Dichloroethene | 236 | 28 | ug/kg dry | 278.6 | ND | 84.6 | 42-122 | | | |
| cis-1,2-Dichloroethene | 262 | 28 | ug/kg dry | 278.6 | 13.3 | 89.2 | 65.9-108 | | | |
| Methylene chloride | 268 | 110 | ug/kg dry | 278.6 | ND | 96.2 | 56.7-120 | | | |
| Tetrachloroethene | 270 | 28 | ug/kg dry | 278.6 | ND | 97.0 | 54-121 | | | |
| trans-1,2-Dichloroethene | 234 | 28 | ug/kg dry | 278.6 | ND | 84.0 | 61.1-110 | | | |
| Trichloroethene | 507 | 28 | ug/kg dry | 278.6 | 405 | 36.6 | 63.1-112 | | | M |
| Vinyl chloride | 246 | 28 | ug/kg dry | 278.6 | ND | 88.4 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *250* | | *ug/kg dry* | *278.6* | | *89.6* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *226* | | *ug/kg dry* | *278.6* | | *81.2* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *282* | | *ug/kg dry* | *278.6* | | *101* | *80-120* | | | |
| **Matrix Spike Dup (R006019-MSD1)** | **Source: R202407-01** | | | Prepared: 06/10/2020 Analyzed: 06/10/2020 18:57 | | | | | | |
| 1,1-Dichloroethane | 240 | 26 | ug/kg dry | 263.1 | ND | 91.2 | 64.5-113 | 3.29 | 20 | |
| 1,1-Dichloroethene | 217 | 26 | ug/kg dry | 263.1 | ND | 82.6 | 42-122 | 8.12 | 20 | |
| cis-1,2-Dichloroethene | 261 | 26 | ug/kg dry | 263.1 | 13.3 | 94.1 | 65.9-108 | 0.348 | 20 | |
| Methylene chloride | 264 | 110 | ug/kg dry | 263.1 | ND | 100 | 56.7-120 | 1.66 | 20 | |
| Tetrachloroethene | 251 | 26 | ug/kg dry | 263.1 | ND | 95.6 | 54-121 | 7.18 | 20 | |
| trans-1,2-Dichloroethene | 234 | 26 | ug/kg dry | 263.1 | ND | 89.0 | 61.1-110 | 0.0494 | 20 | |
| Trichloroethene | 557 | 26 | ug/kg dry | 263.1 | 405 | 57.8 | 63.1-112 | 9.42 | 20 | M |
| Vinyl chloride | 236 | 26 | ug/kg dry | 263.1 | ND | 89.8 | 30.4-112 | 4.16 | 20 | |
| *Surrogate: Toluene-d8* | *247* | | *ug/kg dry* | *263.1* | | *93.8* | *61.9-110* | | | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006019 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006019-MSD1)** | | **Source: R202407-01** | | Prepared: 06/10/2020 Analyzed: 06/10/2020 18:57 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *229* | | *ug/kg dry* | *263.1* | | *87.0* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *269* | | *ug/kg dry* | *263.1* | | *102* | *80-120* | | | |
| **Batch R006021 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006021-BLK1)** | | | | Prepared: 06/12/2020 Analyzed: 06/12/2020 09:03 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.23* | | *ug/L* | *10.00* | | *92.3* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.50* | | *ug/L* | *10.00* | | *85.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *8.85* | | *ug/L* | *10.00* | | *88.5* | *80-120* | | | |
| **LCS (R006021-BS1)** | | | | Prepared: 06/12/2020 Analyzed: 06/13/2020 09:43 | | | | | | |
| 1,1-Dichloroethene | 5.05 | 0.50 | ug/L | 5.000 | | 101 | 60.6-148 | | | |
| 1,2-Dichloroethane | 4.93 | 0.50 | ug/L | 5.000 | | 98.6 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.03 | 0.50 | ug/L | 5.000 | | 101 | 86.4-119 | | | |
| Methylene chloride | 4.69 | 2.0 | ug/L | 5.000 | | 93.8 | 74-136 | | | |
| Tetrachloroethene | 4.92 | 0.50 | ug/L | 5.000 | | 98.4 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.64 | 0.50 | ug/L | 5.000 | | 92.8 | 80.8-125 | | | |
| Trichloroethene | 4.82 | 0.50 | ug/L | 5.000 | | 96.4 | 80-120 | | | |
| Vinyl chloride | 5.88 | 0.50 | ug/L | 5.000 | | 118 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.79* | | *ug/L* | *5.000* | | *95.8* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.79* | | *ug/L* | *5.000* | | *95.8* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.00* | | *ug/L* | *5.000* | | *100* | *80-120* | | | |
| **Matrix Spike (R006021-MS1)** | | **Source: R202409-05** | | Prepared: 06/12/2020 Analyzed: 06/12/2020 16:59 | | | | | | |
| 1,1-Dichloroethene | 2480 | 250 | ug/L | 2500 | ND | 99.2 | 35.8-173 | | | D |
| 1,2-Dichloroethane | 2590 | 250 | ug/L | 2500 | ND | 103 | 71.8-143 | | | D |
| cis-1,2-Dichloroethene | 3260 | 250 | ug/L | 2500 | 702 | 102 | 81.7-124 | | | D |
| Methylene chloride | 2420 | 1000 | ug/L | 2500 | ND | 96.6 | 64.1-146 | | | D |
| Tetrachloroethene | 2600 | 250 | ug/L | 2500 | ND | 104 | 85.2-114 | | | D |
| trans-1,2-Dichloroethene | 2410 | 250 | ug/L | 2500 | ND | 96.4 | 81.8-123 | | | D |
| Trichloroethene | 14400 | 250 | ug/L | 2500 | 11500 | 118 | 80-120 | | | D |
| Vinyl chloride | 3050 | 250 | ug/L | 2500 | ND | 122 | 64-147 | | | D |
| *Surrogate: Toluene-d8* | *2550* | | *ug/L* | *2500* | | *102* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2440* | | *ug/L* | *2500* | | *97.4* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *2490* | | *ug/L* | *2500* | | *99.6* | *80-120* | | | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006021 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006021-MSD1)** | **Source: R202409-05** | | | Prepared: 06/12/2020 Analyzed: 06/12/2020 17:27 | | | | | | |
| 1,1-Dichloroethene | 2430 | 250 | ug/L | 2500 | ND | 97.2 | 35.8-173 | 2.04 | 20 | D |
| 1,2-Dichloroethane | 2450 | 250 | ug/L | 2500 | ND | 98.0 | 71.8-143 | 5.36 | 20 | D |
| cis-1,2-Dichloroethene | 3140 | 250 | ug/L | 2500 | 702 | 97.3 | 81.7-124 | 3.91 | 20 | D |
| Methylene chloride | 2380 | 1000 | ug/L | 2500 | ND | 95.2 | 64.1-146 | 1.46 | 20 | D |
| Tetrachloroethene | 2640 | 250 | ug/L | 2500 | ND | 105 | 85.2-114 | 1.34 | 20 | D |
| trans-1,2-Dichloroethene | 2510 | 250 | ug/L | 2500 | ND | 100 | 81.8-123 | 3.87 | 20 | D |
| Trichloroethene | 14300 | 250 | ug/L | 2500 | 11500 | 114 | 80-120 | 0.730 | 20 | D |
| Vinyl chloride | 2960 | 250 | ug/L | 2500 | ND | 118 | 64-147 | 2.83 | 20 | D |
| *Surrogate: Toluene-d8* | *2500* | | *ug/L* | *2500* | | *100* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2440* | | *ug/L* | *2500* | | *97.4* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *2670* | | *ug/L* | *2500* | | *107* | *80-120* | | | |
| **Batch R006022 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006022-BLK1)** | | | | Prepared: 06/11/2020 Analyzed: 06/11/2020 16:30 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *499.5* | | *93.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *499.5* | | *88.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *439* | | *ug/kg wet* | *499.5* | | *87.8* | *80-120* | | | |
| **LCS (R006022-BS1)** | | | | Prepared: 06/11/2020 Analyzed: 06/11/2020 18:23 | | | | | | |
| 1,1-Dichloroethane | 246 | 25 | ug/kg wet | 250.0 | | 98.4 | 73-123 | | | |
| 1,1-Dichloroethene | 244 | 25 | ug/kg wet | 250.0 | | 97.6 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 247 | 25 | ug/kg wet | 250.0 | | 98.8 | 76-115 | | | |
| Methylene chloride | 236 | 100 | ug/kg wet | 250.0 | | 94.2 | 62.2-132 | | | |
| Tetrachloroethene | 240 | 25 | ug/kg wet | 250.0 | | 96.0 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 242 | 25 | ug/kg wet | 250.0 | | 96.6 | 73.5-116 | | | |
| Trichloroethene | 230 | 25 | ug/kg wet | 250.0 | | 92.0 | 79.5-110 | | | |
| Vinyl chloride | 215 | 25 | ug/kg wet | 250.0 | | 85.8 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *242* | | *ug/kg wet* | *250.0* | | *96.6* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *247* | | *ug/kg wet* | *250.0* | | *98.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *243* | | *ug/kg wet* | *250.0* | | *97.0* | *80-120* | | | |
| **Matrix Spike (R006022-MS1)** | **Source: R202408-01** | | | Prepared: 06/11/2020 Analyzed: 06/11/2020 18:51 | | | | | | |
| 1,1-Dichloroethane | 293 | 30 | ug/kg dry | 302.5 | ND | 96.8 | 64.5-113 | | | |
| 1,1-Dichloroethene | 283 | 30 | ug/kg dry | 302.5 | ND | 93.4 | 42-122 | | | |
| cis-1,2-Dichloroethene | 290 | 30 | ug/kg dry | 302.5 | ND | 96.0 | 65.9-108 | | | |
| Methylene chloride | 274 | 120 | ug/kg dry | 302.5 | ND | 90.6 | 56.7-120 | | | |
| Tetrachloroethene | 289 | 30 | ug/kg dry | 302.5 | ND | 95.4 | 54-121 | | | |
| trans-1,2-Dichloroethene | 282 | 30 | ug/kg dry | 302.5 | ND | 93.2 | 61.1-110 | | | |
| Trichloroethene | 284 | 30 | ug/kg dry | 302.5 | ND | 94.0 | 63.1-112 | | | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006022 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006022-MS1)** | **Source: R202408-01** | | | Prepared: 06/11/2020 Analyzed: 06/11/2020 18:51 | | | | | | |
| Vinyl chloride | 261 | 30 | ug/kg dry | 302.5 | ND | 86.4 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *284* | | *ug/kg dry* | *302.5* | | *94.0* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *281* | | *ug/kg dry* | *302.5* | | *93.0* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *275* | | *ug/kg dry* | *302.5* | | *91.0* | *80-120* | | | |
| **Matrix Spike Dup (R006022-MSD1)** | **Source: R202408-01** | | | Prepared: 06/11/2020 Analyzed: 06/11/2020 19:18 | | | | | | |
| 1,1-Dichloroethane | 303 | 32 | ug/kg dry | 321.5 | ND | 94.2 | 64.5-113 | 3.35 | 20 | |
| 1,1-Dichloroethene | 301 | 32 | ug/kg dry | 321.5 | ND | 93.6 | 42-122 | 6.28 | 20 | |
| cis-1,2-Dichloroethene | 309 | 32 | ug/kg dry | 321.5 | ND | 96.0 | 65.9-108 | 6.07 | 20 | |
| Methylene chloride | 293 | 130 | ug/kg dry | 321.5 | ND | 91.2 | 56.7-120 | 6.73 | 20 | |
| Tetrachloroethene | 296 | 32 | ug/kg dry | 321.5 | ND | 92.0 | 54-121 | 2.44 | 20 | |
| trans-1,2-Dichloroethene | 303 | 32 | ug/kg dry | 321.5 | ND | 94.4 | 61.1-110 | 7.35 | 20 | |
| Trichloroethene | 292 | 32 | ug/kg dry | 321.5 | ND | 90.8 | 63.1-112 | 2.61 | 20 | |
| Vinyl chloride | 275 | 32 | ug/kg dry | 321.5 | ND | 85.6 | 30.4-112 | 5.14 | 20 | |
| *Surrogate: Toluene-d8* | *307* | | *ug/kg dry* | *321.5* | | *95.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *303* | | *ug/kg dry* | *321.5* | | *94.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *298* | | *ug/kg dry* | *321.5* | | *92.8* | *80-120* | | | |
| **Batch R006024 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006024-BLK1)** | | | | Prepared: 06/12/2020 Analyzed: 06/13/2020 19:59 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *499.0* | | *95.7* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *499.0* | | *93.3* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *457* | | *ug/kg wet* | *499.0* | | *91.5* | *80-120* | | | |
| **LCS (R006024-BS1)** | | | | Prepared: 06/12/2020 Analyzed: 06/13/2020 18:09 | | | | | | |
| 1,1-Dichloroethane | 246 | 25 | ug/kg wet | 250.0 | | 98.4 | 73-123 | | | |
| 1,1-Dichloroethene | 240 | 25 | ug/kg wet | 250.0 | | 95.8 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 249 | 25 | ug/kg wet | 250.0 | | 99.6 | 76-115 | | | |
| Methylene chloride | 233 | 100 | ug/kg wet | 250.0 | | 93.2 | 62.2-132 | | | |
| Tetrachloroethene | 234 | 25 | ug/kg wet | 250.0 | | 93.6 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 237 | 25 | ug/kg wet | 250.0 | | 94.6 | 73.5-116 | | | |
| Trichloroethene | 236 | 25 | ug/kg wet | 250.0 | | 94.2 | 79.5-110 | | | |
| Vinyl chloride | 215 | 25 | ug/kg wet | 250.0 | | 85.8 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *243* | | *ug/kg wet* | *250.0* | | *97.2* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *250* | | *ug/kg wet* | *250.0* | | *100* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *242* | | *ug/kg wet* | *250.0* | | *96.6* | *80-120* | | | |

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Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006024 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006024-MS1)** | **Source: R202410-01** | | | Prepared: 06/12/2020 Analyzed: 06/12/2020 17:55 | | | | | | |
| 1,1-Dichloroethane | 4.95 | | ug/L | 5.000 | 0.00 | 99.0 | 64.5-113 | | | |
| 1,1-Dichloroethene | 4.82 | | ug/L | 5.000 | 0.00 | 96.4 | 42-122 | | | |
| cis-1,2-Dichloroethene | 5.15 | | ug/L | 5.000 | 0.00 | 103 | 65.9-108 | | | |
| Methylene chloride | 4.80 | | ug/L | 5.000 | 0.00 | 96.0 | 56.7-120 | | | |
| Tetrachloroethene | 5.31 | | ug/L | 5.000 | 0.00 | 106 | 54-121 | | | |
| trans-1,2-Dichloroethene | 4.94 | | ug/L | 5.000 | 0.00 | 98.8 | 61.1-110 | | | |
| Trichloroethene | 7.96 | | ug/L | 5.000 | 0.386 | 151 | 63.1-112 | | | M |
| Vinyl chloride | 4.45 | | ug/L | 5.000 | 0.00 | 89.0 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *4.91* | | *ug/L* | *5.000* | | *98.2* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.91* | | *ug/L* | *5.000* | | *98.2* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *4.83* | | *ug/L* | *5.000* | | *96.6* | *80-120* | | | |
| **Matrix Spike Dup (R006024-MSD1)** | **Source: R202410-01** | | | Prepared: 06/12/2020 Analyzed: 06/12/2020 18:23 | | | | | | |
| 1,1-Dichloroethane | 4.82 | | ug/L | 5.000 | 0.00 | 96.4 | 64.5-113 | | 20 | |
| 1,1-Dichloroethene | 4.74 | | ug/L | 5.000 | 0.00 | 94.8 | 42-122 | | 20 | |
| cis-1,2-Dichloroethene | 4.63 | | ug/L | 5.000 | 0.00 | 92.6 | 65.9-108 | | 20 | |
| Methylene chloride | 4.57 | | ug/L | 5.000 | 0.00 | 91.4 | 56.7-120 | | 20 | |
| Tetrachloroethene | 4.92 | | ug/L | 5.000 | 0.00 | 98.4 | 54-121 | | 20 | |
| trans-1,2-Dichloroethene | 4.76 | | ug/L | 5.000 | 0.00 | 95.2 | 61.1-110 | 3.71 | 20 | |
| Trichloroethene | 6.02 | | ug/L | 5.000 | 0.505 | 110 | 63.1-112 | 27.8 | 20 | X |
| Vinyl chloride | 4.10 | | ug/L | 5.000 | 0.00 | 82.0 | 30.4-112 | | 20 | |
| *Surrogate: Toluene-d8* | *4.67* | | *ug/L* | *5.000* | | *93.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.49* | | *ug/L* | *5.000* | | *89.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *4.71* | | *ug/L* | *5.000* | | *94.2* | *80-120* | | | |
| **Batch R006026 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006026-BLK1)** | | | | Prepared: 06/13/2020 Analyzed: 06/13/2020 19:32 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *501.0* | | *96.3* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *501.0* | | *91.7* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *460* | | *ug/kg wet* | *501.0* | | *91.9* | *80-120* | | | |
| **LCS (R006026-BS1)** | | | | Prepared: 06/13/2020 Analyzed: 06/13/2020 17:41 | | | | | | |
| 1,1-Dichloroethane | 235 | 25 | ug/kg wet | 250.5 | | 93.8 | 73-123 | | | |
| 1,1-Dichloroethene | 221 | 25 | ug/kg wet | 250.5 | | 88.2 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 245 | 25 | ug/kg wet | 250.5 | | 97.8 | 76-115 | | | |
| Methylene chloride | 228 | 100 | ug/kg wet | 250.5 | | 91.0 | 62.2-132 | | | |
| Tetrachloroethene | 239 | 25 | ug/kg wet | 250.5 | | 95.4 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 236 | 25 | ug/kg wet | 250.5 | | 94.4 | 73.5-116 | | | |
| Trichloroethene | 236 | 25 | ug/kg wet | 250.5 | | 94.4 | 79.5-110 | | | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006026 - EPA 5030B** | | | | | | | | | | |
| **LCS (R006026-BS1)** | | | | Prepared: 06/13/2020 Analyzed: 06/13/2020 17:41 | | | | | | |
| Vinyl chloride | 208 | 25 | ug/kg wet | 250.5 | | 83.0 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *235* | | *ug/kg wet* | *250.5* | | *93.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *235* | | *ug/kg wet* | *250.5* | | *94.0* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *233* | | *ug/kg wet* | *250.5* | | *93.2* | *80-120* | | | |
| **Matrix Spike (R006026-MS1)** | | **Source: R202411-01** | | Prepared: 06/13/2020 Analyzed: 06/14/2020 13:13 | | | | | | |
| 1,1-Dichloroethane | 256 | 31 | ug/kg dry | 307.9 | ND | 83.0 | 64.5-113 | | | |
| 1,1-Dichloroethene | 249 | 31 | ug/kg dry | 307.9 | ND | 80.8 | 42-122 | | | |
| cis-1,2-Dichloroethene | 259 | 31 | ug/kg dry | 307.9 | ND | 84.0 | 65.9-108 | | | |
| Methylene chloride | 249 | 120 | ug/kg dry | 307.9 | ND | 80.8 | 56.7-120 | | | |
| Tetrachloroethene | 279 | 31 | ug/kg dry | 307.9 | ND | 90.6 | 54-121 | | | |
| trans-1,2-Dichloroethene | 256 | 31 | ug/kg dry | 307.9 | ND | 83.0 | 61.1-110 | | | |
| Trichloroethene | 252 | 31 | ug/kg dry | 307.9 | ND | 81.8 | 63.1-112 | | | |
| Vinyl chloride | 225 | 31 | ug/kg dry | 307.9 | ND | 73.2 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *260* | | *ug/kg dry* | *307.9* | | *84.4* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *257* | | *ug/kg dry* | *307.9* | | *83.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *230* | | *ug/kg dry* | *307.9* | | *74.8* | *80-120* | | | *S* |
| **Matrix Spike Dup (R006026-MSD1)** | | **Source: R202411-01** | | Prepared: 06/13/2020 Analyzed: 06/13/2020 17:13 | | | | | | |
| 1,1-Dichloroethane | 284 | 30 | ug/kg dry | 296.0 | ND | 95.8 | 64.5-113 | 10.4 | 20 | |
| 1,1-Dichloroethene | 276 | 30 | ug/kg dry | 296.0 | ND | 93.4 | 42-122 | 10.5 | 20 | |
| cis-1,2-Dichloroethene | 282 | 30 | ug/kg dry | 296.0 | ND | 95.4 | 65.9-108 | 8.76 | 20 | |
| Methylene chloride | 264 | 120 | ug/kg dry | 296.0 | ND | 89.2 | 56.7-120 | 5.93 | 20 | |
| Tetrachloroethene | 300 | 30 | ug/kg dry | 296.0 | ND | 101 | 54-121 | 7.30 | 20 | |
| trans-1,2-Dichloroethene | 275 | 30 | ug/kg dry | 296.0 | ND | 93.0 | 61.1-110 | 7.41 | 20 | |
| Trichloroethene | 276 | 30 | ug/kg dry | 296.0 | ND | 93.2 | 63.1-112 | 9.08 | 20 | |
| Vinyl chloride | 228 | 30 | ug/kg dry | 296.0 | ND | 77.0 | 30.4-112 | 1.10 | 20 | |
| *Surrogate: Toluene-d8* | *282* | | *ug/kg dry* | *296.0* | | *95.2* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *294* | | *ug/kg dry* | *296.0* | | *99.2* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *285* | | *ug/kg dry* | *296.0* | | *96.4* | *80-120* | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006028 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006028-BLK1)** | | | | Prepared: 06/14/2020 Analyzed: 06/14/2020 09:01 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.31* | | *ug/L* | *10.00* | | *93.1* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.95* | | *ug/L* | *10.00* | | *89.5* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.00* | | *ug/L* | *10.00* | | *90.0* | *80-120* | | | |
| **LCS (R006028-BS1)** | | | | Prepared: 06/14/2020 Analyzed: 06/14/2020 18:53 | | | | | | |
| 1,1-Dichloroethene | 5.00 | 0.50 | ug/L | 5.000 | | 100 | 60.6-148 | | | |
| 1,2-Dichloroethane | 5.08 | 0.50 | ug/L | 5.000 | | 102 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.15 | 0.50 | ug/L | 5.000 | | 103 | 86.4-119 | | | |
| Methylene chloride | 4.99 | 2.0 | ug/L | 5.000 | | 99.8 | 74-136 | | | |
| Tetrachloroethene | 5.22 | 0.50 | ug/L | 5.000 | | 104 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 4.95 | 0.50 | ug/L | 5.000 | | 99.0 | 80.8-125 | | | |
| Trichloroethene | 4.80 | 0.50 | ug/L | 5.000 | | 96.0 | 80-120 | | | |
| Vinyl chloride | 5.59 | 0.50 | ug/L | 5.000 | | 112 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.94* | | *ug/L* | *5.000* | | *98.8* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *5.20* | | *ug/L* | *5.000* | | *104* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.00* | | *ug/L* | *5.000* | | *100* | *80-120* | | | |
| **Matrix Spike (R006028-MS1)** | | **Source: R202412-01** | | Prepared: 06/14/2020 Analyzed: 06/14/2020 16:33 | | | | | | |
| 1,1-Dichloroethene | 4.96 | 0.50 | ug/L | 5.000 | ND | 99.2 | 35.8-173 | | | |
| 1,2-Dichloroethane | 5.14 | 0.50 | ug/L | 5.000 | ND | 103 | 71.8-143 | | | |
| cis-1,2-Dichloroethene | 5.81 | 0.50 | ug/L | 5.000 | 0.350 | 109 | 81.7-124 | | | |
| Methylene chloride | 5.09 | 2.0 | ug/L | 5.000 | ND | 102 | 64.1-146 | | | |
| Tetrachloroethene | 4.85 | 0.50 | ug/L | 5.000 | ND | 97.0 | 85.2-114 | | | |
| trans-1,2-Dichloroethene | 5.10 | 0.50 | ug/L | 5.000 | ND | 102 | 81.8-123 | | | |
| Trichloroethene | 11.7 | 0.50 | ug/L | 5.000 | 6.56 | 103 | 80-120 | | | |
| Vinyl chloride | 5.81 | 0.50 | ug/L | 5.000 | ND | 116 | 64-147 | | | |
| *Surrogate: Toluene-d8* | *5.11* | | *ug/L* | *5.000* | | *102* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *5.05* | | *ug/L* | *5.000* | | *101* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *5.10* | | *ug/L* | *5.000* | | *102* | *80-120* | | | |
| **Matrix Spike Dup (R006028-MSD1)** | | **Source: R202412-01** | | Prepared: 06/14/2020 Analyzed: 06/14/2020 17:01 | | | | | | |
| 1,1-Dichloroethene | 4.78 | 0.50 | ug/L | 5.000 | ND | 95.6 | 35.8-173 | 3.70 | 20 | |
| 1,2-Dichloroethane | 4.78 | 0.50 | ug/L | 5.000 | ND | 95.6 | 71.8-143 | 7.26 | 20 | |
| cis-1,2-Dichloroethene | 5.47 | 0.50 | ug/L | 5.000 | 0.350 | 102 | 81.7-124 | 6.03 | 20 | |
| Methylene chloride | 4.62 | 2.0 | ug/L | 5.000 | ND | 92.4 | 64.1-146 | 9.68 | 20 | |
| Tetrachloroethene | 4.83 | 0.50 | ug/L | 5.000 | ND | 96.6 | 85.2-114 | 0.413 | 20 | |
| trans-1,2-Dichloroethene | 4.65 | 0.50 | ug/L | 5.000 | ND | 93.0 | 81.8-123 | 9.23 | 20 | |
| Trichloroethene | 10.9 | 0.50 | ug/L | 5.000 | 6.56 | 86.6 | 80-120 | 7.09 | 20 | |
| Vinyl chloride | 5.74 | 0.50 | ug/L | 5.000 | ND | 115 | 64-147 | 1.21 | 20 | |
| *Surrogate: Toluene-d8* | *4.72* | | *ug/L* | *5.000* | | *94.4* | *82.5-107* | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006028 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006028-MSD1)** | **Source: R202412-01** | | | Prepared: 06/14/2020 Analyzed: 06/14/2020 17:01 | | | | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.83* | | *ug/L* | *5.000* | | *96.6* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *4.93* | | *ug/L* | *5.000* | | *98.6* | *80-120* | | | |
| **Batch R006029 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006029-BLK1)** | | | | Prepared: 06/14/2020 Analyzed: 06/14/2020 14:38 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *501.0* | | *97.7* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *501.0* | | *94.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *471* | | *ug/kg wet* | *501.0* | | *94.1* | *80-120* | | | |
| **LCS (R006029-BS1)** | | | | Prepared: 06/14/2020 Analyzed: 06/14/2020 18:26 | | | | | | |
| 1,1-Dichloroethane | 240 | 25 | ug/kg wet | 250.0 | | 95.8 | 73-123 | | | |
| 1,1-Dichloroethene | 221 | 25 | ug/kg wet | 250.0 | | 88.4 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 240 | 25 | ug/kg wet | 250.0 | | 96.0 | 76-115 | | | |
| Methylene chloride | 231 | 100 | ug/kg wet | 250.0 | | 92.2 | 62.2-132 | | | |
| Tetrachloroethene | 244 | 25 | ug/kg wet | 250.0 | | 97.4 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 240 | 25 | ug/kg wet | 250.0 | | 96.0 | 73.5-116 | | | |
| Trichloroethene | 236 | 25 | ug/kg wet | 250.0 | | 94.2 | 79.5-110 | | | |
| Vinyl chloride | 211 | 25 | ug/kg wet | 250.0 | | 84.2 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *240* | | *ug/kg wet* | *250.0* | | *95.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *238* | | *ug/kg wet* | *250.0* | | *95.0* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *235* | | *ug/kg wet* | *250.0* | | *93.8* | *80-120* | | | |
| **Matrix Spike (R006029-MS1)** | **Source: R202502-01** | | | Prepared: 06/14/2020 Analyzed: 06/14/2020 17:29 | | | | | | |
| 1,1-Dichloroethane | 250 | 27 | ug/kg dry | 268.0 | ND | 93.2 | 64.5-113 | | | |
| 1,1-Dichloroethene | 233 | 27 | ug/kg dry | 268.0 | ND | 86.8 | 42-122 | | | |
| cis-1,2-Dichloroethene | 240 | 27 | ug/kg dry | 268.0 | ND | 89.4 | 65.9-108 | | | |
| Methylene chloride | 233 | 110 | ug/kg dry | 268.0 | ND | 86.8 | 56.7-120 | | | |
| Tetrachloroethene | 253 | 27 | ug/kg dry | 268.0 | ND | 94.4 | 54-121 | | | |
| trans-1,2-Dichloroethene | 230 | 27 | ug/kg dry | 268.0 | ND | 86.0 | 61.1-110 | | | |
| Trichloroethene | 237 | 27 | ug/kg dry | 268.0 | ND | 88.6 | 63.1-112 | | | |
| Vinyl chloride | 203 | 27 | ug/kg dry | 268.0 | ND | 75.8 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *241* | | *ug/kg dry* | *268.0* | | *90.0* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *246* | | *ug/kg dry* | *268.0* | | *91.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *233* | | *ug/kg dry* | *268.0* | | *86.8* | *80-120* | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006029 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike Dup (R006029-MSD1)** | | **Source: R202502-01** | | Prepared: 06/14/2020 Analyzed: 06/14/2020 17:58 | | | | | | |
| 1,1-Dichloroethane | 232 | 26 | ug/kg dry | 261.2 | ND | 89.0 | 64.5-113 | 7.18 | 20 | |
| 1,1-Dichloroethene | 213 | 26 | ug/kg dry | 261.2 | ND | 81.6 | 42-122 | 8.75 | 20 | |
| cis-1,2-Dichloroethene | 223 | 26 | ug/kg dry | 261.2 | ND | 85.4 | 65.9-108 | 7.15 | 20 | |
| Methylene chloride | 214 | 100 | ug/kg dry | 261.2 | ND | 81.8 | 56.7-120 | 8.50 | 20 | |
| Tetrachloroethene | 232 | 26 | ug/kg dry | 261.2 | ND | 88.8 | 54-121 | 8.69 | 20 | |
| trans-1,2-Dichloroethene | 235 | 26 | ug/kg dry | 261.2 | ND | 89.8 | 61.1-110 | 1.75 | 20 | |
| Trichloroethene | 224 | 26 | ug/kg dry | 261.2 | ND | 85.8 | 63.1-112 | 5.79 | 20 | |
| Vinyl chloride | 186 | 26 | ug/kg dry | 261.2 | ND | 71.4 | 30.4-112 | 8.55 | 20 | |
| *Surrogate: Toluene-d8* | *229* | | *ug/kg dry* | *261.2* | | *87.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *228* | | *ug/kg dry* | *261.2* | | *87.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *224* | | *ug/kg dry* | *261.2* | | *85.6* | *80-120* | | | |
| **Batch R006031 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006031-BLK1)** | | | | Prepared: 06/15/2020 Analyzed: 06/15/2020 09:02 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.40* | | *ug/L* | *10.00* | | *94.0* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.77* | | *ug/L* | *10.00* | | *87.7* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *9.13* | | *ug/L* | *10.00* | | *91.3* | *80-120* | | | |
| **LCS (R006031-BS1)** | | | | Prepared: 06/15/2020 Analyzed: 06/15/2020 10:54 | | | | | | |
| 1,1-Dichloroethene | 5.04 | 0.50 | ug/L | 5.000 | | 101 | 60.6-148 | | | |
| 1,2-Dichloroethane | 4.81 | 0.50 | ug/L | 5.000 | | 96.2 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.12 | 0.50 | ug/L | 5.000 | | 102 | 86.4-119 | | | |
| Methylene chloride | 4.83 | 2.0 | ug/L | 5.000 | | 96.6 | 74-136 | | | |
| Tetrachloroethene | 5.36 | 0.50 | ug/L | 5.000 | | 107 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 5.10 | 0.50 | ug/L | 5.000 | | 102 | 80.8-125 | | | |
| Trichloroethene | 4.87 | 0.50 | ug/L | 5.000 | | 97.4 | 80-120 | | | |
| Vinyl chloride | 5.88 | 0.50 | ug/L | 5.000 | | 118 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.96* | | *ug/L* | *5.000* | | *99.2* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.80* | | *ug/L* | *5.000* | | *96.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *4.92* | | *ug/L* | *5.000* | | *98.4* | *80-120* | | | |
| **Matrix Spike (R006031-MS1)** | | **Source: R202503-01RE1** | | Prepared: 06/15/2020 Analyzed: 06/15/2020 11:50 | | | | | | |
| 1,1-Dichloroethene | 482 | 50 | ug/L | 500.0 | ND | 96.4 | 35.8-173 | | | D |
| 1,2-Dichloroethane | 476 | 50 | ug/L | 500.0 | ND | 95.2 | 71.8-143 | | | D |
| cis-1,2-Dichloroethene | 546 | 50 | ug/L | 500.0 | 78.0 | 93.6 | 81.7-124 | | | D |
| Methylene chloride | 448 | 200 | ug/L | 500.0 | ND | 89.6 | 64.1-146 | | | D |
| Tetrachloroethene | 519 | 50 | ug/L | 500.0 | ND | 104 | 85.2-114 | | | D |
| trans-1,2-Dichloroethene | 489 | 50 | ug/L | 500.0 | ND | 97.8 | 81.8-123 | | | D |
| Trichloroethene | 2800 | 50 | ug/L | 500.0 | 2390 | 82.4 | 80-120 | | | D |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006031 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006031-MS1)** | | **Source: R202503-01RE1** | | Prepared: 06/15/2020 Analyzed: 06/15/2020 11:50 | | | | | | |
| Vinyl chloride | 572 | 50 | ug/L | 500.0 | ND | 114 | 64-147 | | | D |
| *Surrogate: Toluene-d8* | *467* | | *ug/L* | *500.0* | | *93.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *460* | | *ug/L* | *500.0* | | *92.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *471* | | *ug/L* | *500.0* | | *94.2* | *80-120* | | | |
| **Matrix Spike Dup (R006031-MSD1)** | | **Source: R202503-01RE1** | | Prepared: 06/15/2020 Analyzed: 06/15/2020 12:18 | | | | | | |
| 1,1-Dichloroethene | 462 | 50 | ug/L | 500.0 | ND | 92.4 | 35.8-173 | 4.24 | 20 | D |
| 1,2-Dichloroethane | 481 | 50 | ug/L | 500.0 | ND | 96.2 | 71.8-143 | 1.04 | 20 | D |
| cis-1,2-Dichloroethene | 563 | 50 | ug/L | 500.0 | 78.0 | 97.0 | 81.7-124 | 3.07 | 20 | D |
| Methylene chloride | 472 | 200 | ug/L | 500.0 | ND | 94.4 | 64.1-146 | 5.22 | 20 | D |
| Tetrachloroethene | 486 | 50 | ug/L | 500.0 | ND | 97.2 | 85.2-114 | 6.57 | 20 | D |
| trans-1,2-Dichloroethene | 497 | 50 | ug/L | 500.0 | ND | 99.4 | 81.8-123 | 1.62 | 20 | D |
| Trichloroethene | 2830 | 50 | ug/L | 500.0 | 2390 | 86.6 | 80-120 | 0.746 | 20 | D |
| Vinyl chloride | 558 | 50 | ug/L | 500.0 | ND | 112 | 64-147 | 2.48 | 20 | D |
| *Surrogate: Toluene-d8* | *475* | | *ug/L* | *500.0* | | *95.0* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *458* | | *ug/L* | *500.0* | | *91.6* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *474* | | *ug/L* | *500.0* | | *94.8* | *80-120* | | | |
| **Batch R006032 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006032-BLK1)** | | | | Prepared: 06/15/2020 Analyzed: 06/15/2020 15:52 | | | | | | |
| 1,1-Dichloroethane | ND | 25 | ug/kg wet | | | | | | | |
| 1,1-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Methylene chloride | ND | 100 | ug/kg wet | | | | | | | |
| Tetrachloroethene | ND | 25 | ug/kg wet | | | | | | | |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Trichloroethene | ND | 25 | ug/kg wet | | | | | | | |
| Vinyl chloride | ND | 25 | ug/kg wet | | | | | | | |
| *Surrogate: Toluene-d8* | *ND* | | *ug/kg wet* | *499.0* | | *92.9* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *ND* | | *ug/kg wet* | *499.0* | | *88.4* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *460* | | *ug/kg wet* | *499.0* | | *92.1* | *80-120* | | | |
| **LCS (R006032-BS1)** | | | | Prepared: 06/15/2020 Analyzed: 06/15/2020 17:21 | | | | | | |
| 1,1-Dichloroethane | 235 | 25 | ug/kg wet | 249.8 | | 94.2 | 73-123 | | | |
| 1,1-Dichloroethene | 218 | 25 | ug/kg wet | 249.8 | | 87.2 | 56.6-131 | | | |
| cis-1,2-Dichloroethene | 244 | 25 | ug/kg wet | 249.8 | | 97.6 | 76-115 | | | |
| Methylene chloride | 237 | 100 | ug/kg wet | 249.8 | | 94.8 | 62.2-132 | | | |
| Tetrachloroethene | 248 | 25 | ug/kg wet | 249.8 | | 99.2 | 73.7-114 | | | |
| trans-1,2-Dichloroethene | 234 | 25 | ug/kg wet | 249.8 | | 93.6 | 73.5-116 | | | |
| Trichloroethene | 226 | 25 | ug/kg wet | 249.8 | | 90.4 | 79.5-110 | | | |
| Vinyl chloride | 190 | 25 | ug/kg wet | 249.8 | | 76.0 | 49.9-123 | | | |
| *Surrogate: Toluene-d8* | *235* | | *ug/kg wet* | *249.8* | | *94.2* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *224* | | *ug/kg wet* | *249.8* | | *89.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *235* | | *ug/kg wet* | *249.8* | | *94.2* | *80-120* | | | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006032 - EPA 5030B** | | | | | | | | | | |
| **Matrix Spike (R006032-MS1)** | **Source: R202504-01** | | | Prepared: 06/15/2020 Analyzed: 06/15/2020 18:17 | | | | | | |
| 1,1-Dichloroethane | 260 | 28 | ug/kg dry | 284.3 | ND | 91.6 | 64.5-113 | | | |
| 1,1-Dichloroethene | 230 | 28 | ug/kg dry | 284.3 | ND | 80.8 | 42-122 | | | |
| cis-1,2-Dichloroethene | 260 | 28 | ug/kg dry | 284.3 | ND | 91.4 | 65.9-108 | | | |
| Methylene chloride | 250 | 110 | ug/kg dry | 284.3 | ND | 87.8 | 56.7-120 | | | |
| Tetrachloroethene | 263 | 28 | ug/kg dry | 284.3 | ND | 92.6 | 54-121 | | | |
| trans-1,2-Dichloroethene | 258 | 28 | ug/kg dry | 284.3 | ND | 90.8 | 61.1-110 | | | |
| Trichloroethene | 250 | 28 | ug/kg dry | 284.3 | ND | 87.8 | 63.1-112 | | | |
| Vinyl chloride | 204 | 28 | ug/kg dry | 284.3 | ND | 71.6 | 30.4-112 | | | |
| *Surrogate: Toluene-d8* | *261* | | *ug/kg dry* | *284.3* | | *91.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *272* | | *ug/kg dry* | *284.3* | | *95.6* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *267* | | *ug/kg dry* | *284.3* | | *94.0* | *80-120* | | | |
| **Matrix Spike Dup (R006032-MSD1)** | **Source: R202504-01** | | | Prepared: 06/15/2020 Analyzed: 06/15/2020 18:45 | | | | | | |
| 1,1-Dichloroethane | 251 | 27 | ug/kg dry | 267.5 | ND | 94.0 | 64.5-113 | 3.53 | 20 | |
| 1,1-Dichloroethene | 229 | 27 | ug/kg dry | 267.5 | ND | 85.8 | 42-122 | 0.112 | 20 | |
| cis-1,2-Dichloroethene | 253 | 27 | ug/kg dry | 267.5 | ND | 94.6 | 65.9-108 | 2.67 | 20 | |
| Methylene chloride | 241 | 110 | ug/kg dry | 267.5 | ND | 90.2 | 56.7-120 | 3.42 | 20 | |
| Tetrachloroethene | 260 | 27 | ug/kg dry | 267.5 | ND | 97.4 | 54-121 | 1.06 | 20 | |
| trans-1,2-Dichloroethene | 247 | 27 | ug/kg dry | 267.5 | ND | 92.4 | 61.1-110 | 4.37 | 20 | |
| Trichloroethene | 248 | 27 | ug/kg dry | 267.5 | ND | 92.6 | 63.1-112 | 0.794 | 20 | |
| Vinyl chloride | 205 | 27 | ug/kg dry | 267.5 | ND | 76.6 | 30.4-112 | 0.634 | 20 | |
| *Surrogate: Toluene-d8* | *256* | | *ug/kg dry* | *267.5* | | *95.8* | *61.9-110* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *262* | | *ug/kg dry* | *267.5* | | *97.8* | *59.1-115* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *251* | | *ug/kg dry* | *267.5* | | *94.0* | *80-120* | | | |
| **Batch R006034 - EPA 5030B** | | | | | | | | | | |
| **Blank (R006034-BLK1)** | | | | Prepared: 06/16/2020 Analyzed: 06/16/2020 10:01 | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | ug/L | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Methylene chloride | ND | 2.0 | ug/L | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/L | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Trichloroethene | ND | 0.50 | ug/L | | | | | | | |
| Vinyl chloride | ND | 0.50 | ug/L | | | | | | | |
| *Surrogate: Toluene-d8* | *9.49* | | *ug/L* | *10.00* | | *94.9* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *8.70* | | *ug/L* | *10.00* | | *87.0* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *8.70* | | *ug/L* | *10.00* | | *87.0* | *80-120* | | | |
| **LCS (R006034-BS1)** | | | | Prepared: 06/16/2020 Analyzed: 06/16/2020 08:38 | | | | | | |
| 1,1-Dichloroethene | 5.11 | 0.50 | ug/L | 5.000 | | 102 | 60.6-148 | | | |
| 1,2-Dichloroethane | 4.52 | 0.50 | ug/L | 5.000 | | 90.4 | 78.9-134 | | | |
| cis-1,2-Dichloroethene | 5.08 | 0.50 | ug/L | 5.000 | | 102 | 86.4-119 | | | |
| Methylene chloride | 4.98 | 2.0 | ug/L | 5.000 | | 99.6 | 74-136 | | | |
| Tetrachloroethene | 5.49 | 0.50 | ug/L | 5.000 | | 110 | 83.6-115 | | | |
| trans-1,2-Dichloroethene | 5.10 | 0.50 | ug/L | 5.000 | | 102 | 80.8-125 | | | |
| Trichloroethene | 5.10 | 0.50 | ug/L | 5.000 | | 102 | 80-120 | | | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

## Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006034 - EPA 5030B** | | | | | | | | | | |
| **LCS (R006034-BS1)** | | | | Prepared: 06/16/2020 Analyzed: 06/16/2020 08:38 | | | | | | |
| Vinyl chloride | 6.28 | 0.50 | ug/L | 5.000 | | 126 | 66.2-141 | | | |
| *Surrogate: Toluene-d8* | *4.97* | | *ug/L* | *5.000* | | *99.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.92* | | *ug/L* | *5.000* | | *98.4* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *4.77* | | *ug/L* | *5.000* | | *95.4* | *80-120* | | | |
| **LCS Dup (R006034-BSD1)** | | | | Prepared: 06/16/2020 Analyzed: 06/16/2020 09:05 | | | | | | |
| 1,1-Dichloroethene | 4.97 | 0.50 | ug/L | 5.000 | | 99.4 | 60.6-148 | 2.78 | 20 | |
| 1,2-Dichloroethane | 4.73 | 0.50 | ug/L | 5.000 | | 94.6 | 78.9-134 | 4.54 | 20 | |
| cis-1,2-Dichloroethene | 5.08 | 0.50 | ug/L | 5.000 | | 102 | 86.4-119 | 0.00 | 20 | |
| Methylene chloride | 4.75 | 2.0 | ug/L | 5.000 | | 95.0 | 74-136 | 4.73 | 20 | |
| Tetrachloroethene | 5.21 | 0.50 | ug/L | 5.000 | | 104 | 83.6-115 | 5.23 | 20 | |
| trans-1,2-Dichloroethene | 4.96 | 0.50 | ug/L | 5.000 | | 99.2 | 80.8-125 | 2.78 | 20 | |
| Trichloroethene | 4.68 | 0.50 | ug/L | 5.000 | | 93.6 | 80-120 | 8.59 | 20 | |
| Vinyl chloride | 6.17 | 0.50 | ug/L | 5.000 | | 123 | 66.2-141 | 1.77 | 20 | |
| *Surrogate: Toluene-d8* | *4.92* | | *ug/L* | *5.000* | | *98.4* | *82.5-107* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *4.82* | | *ug/L* | *5.000* | | *96.4* | *78.3-109* | | | |
| *Surrogate: 1,2-Dichlorobenzene-d4* | *4.85* | | *ug/L* | *5.000* | | *97.0* | *80-120* | | | |

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9781 S. Merician Blvd., Suite 400
Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Classical Chemistry Parameters - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006003 - % Solids** | | | | | | | | | | |
| **Duplicate (R006003-DUP1)** | | **Source: R202305-01** | | Prepared: 06/02/2020 Analyzed: 06/03/2020 07:45 | | | | | | |
| % Solids | 88.4 | 0.00 | % by Weight | | 88.0 | | | 0.365 | 20 | |
| **Batch R006005 - % Solids** | | | | | | | | | | |
| **Duplicate (R006005-DUP1)** | | **Source: R202306-06** | | Prepared: 06/03/2020 Analyzed: 06/04/2020 07:38 | | | | | | |
| % Solids | 92.7 | 0.00 | % by Weight | | 92.9 | | | 0.284 | 20 | |
| **Batch R006008 - % Solids** | | | | | | | | | | |
| **Duplicate (R006008-DUP1)** | | **Source: R202309-17** | | Prepared: 06/04/2020 Analyzed: 06/05/2020 08:13 | | | | | | |
| % Solids | 88.2 | 0.00 | % by Weight | | 88.2 | | | 0.00979 | 20 | |
| **Batch R006011 - % Solids** | | | | | | | | | | |
| **Duplicate (R006011-DUP1)** | | **Source: R202310-06** | | Prepared: 06/05/2020 Analyzed: 06/07/2020 09:18 | | | | | | |
| % Solids | 90.9 | 0.00 | % by Weight | | 93.6 | | | 2.90 | 20 | |
| **Batch R006014 - % Solids** | | | | | | | | | | |
| **Duplicate (R006014-DUP1)** | | **Source: R202403-01** | | Prepared: 06/08/2020 Analyzed: 06/09/2020 07:45 | | | | | | |
| % Solids | 93.2 | 0.00 | % by Weight | | 93.3 | | | 0.104 | 20 | |
| **Batch R006017 - % Solids** | | | | | | | | | | |
| **Duplicate (R006017-DUP1)** | | **Source: R202405-03** | | Prepared: 06/09/2020 Analyzed: 06/10/2020 07:40 | | | | | | |
| % Solids | 83.8 | 0.00 | % by Weight | | 84.0 | | | 0.255 | 20 | |

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Englewood CO, 80112

Project: Longhorn Army Ammunition Plant (AAP)
Project Number: 10097916
Project Manager: Lynn Lutz

## Classical Chemistry Parameters - Quality Control

## Pace Analytical - Lab #20

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch R006020 - % Solids** | | | | | | | | | | |
| **Duplicate (R006020-DUP1)** | | **Source: R202407-01** | | Prepared: 06/10/2020 Analyzed: 06/11/2020 07:20 | | | | | | |
| % Solids | 89.8 | 0.00 | % by Weight | | 89.7 | | | 0.0630 | 20 | |
| **Batch R006023 - % Solids** | | | | | | | | | | |
| **Duplicate (R006023-DUP1)** | | **Source: R202408-01** | | Prepared: 06/11/2020 Analyzed: 06/12/2020 07:54 | | | | | | |
| % Solids | 93.7 | 0.00 | % by Weight | | 93.6 | | | 0.151 | 20 | |
| **Batch R006025 - % Solids** | | | | | | | | | | |
| **Duplicate (R006025-DUP1)** | | **Source: R202410-01** | | Prepared: 06/12/2020 Analyzed: 06/13/2020 07:33 | | | | | | |
| % Solids | 88.9 | 0.00 | % by Weight | | 89.0 | | | 0.121 | 20 | |
| **Batch R006027 - % Solids** | | | | | | | | | | |
| **Duplicate (R006027-DUP1)** | | **Source: R202411-01** | | Prepared: 06/13/2020 Analyzed: 06/14/2020 07:22 | | | | | | |
| % Solids | 92.7 | 0.00 | % by Weight | | 93.6 | | | 0.996 | 20 | |
| **Batch R006030 - % Solids** | | | | | | | | | | |
| **Duplicate (R006030-DUP1)** | | **Source: R202502-01** | | Prepared: 06/14/2020 Analyzed: 06/15/2020 07:21 | | | | | | |
| % Solids | 86.7 | 0.00 | % by Weight | | 86.9 | | | 0.267 | 20 | |
| **Batch R006033 - % Solids** | | | | | | | | | | |
| **Duplicate (R006033-DUP1)** | | **Source: R202504-12** | | Prepared: 06/15/2020 Analyzed: 06/16/2020 08:00 | | | | | | |
| % Solids | 88.2 | 0.00 | % by Weight | | 88.0 | | | 0.246 | 20 | |

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| | |
|---|---|
| HDR | Project: Longhorn Army Ammunition Plant (AAP) |
| 9781 S. Merician Blvd., Suite 400 | Project Number: 10097916 |
| Englewood CO, 80112 | Project Manager: Lynn Lutz |

## Notes and Definitions

| | |
|---|---|
| X | Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits. |
| S | Surrogate recovery was outside of laboratory control limits. |
| M | The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits. |
| D | Data reported from a dilution |
| B | Analyte is also detected in the associated method blank. |
| ND | Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed). |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis. |
| RPD | Relative Percent Difference |

01014240

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Madison, WI 53718
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# CHAIN OF CUSTODY

No. 10318 Page: 1 of: 1

Lab Work Order #: R202301

Project Number: 10097916 PO Number: —
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): ERIC NORTH

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address: LYNN.LUTZ@HDRINC.COM

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | Preservation Codes / Analyses Requested | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|
| 47WW14 | 5/28/20 | 1420 | GW | 2 | X | | | -01 | 6/2/20 07:17 |
| 47WW13 | 5/28/20 | 1530 | GW | 2 | X | | | -02 | |
| 47WW37 | 5/28/20 | 1630 | GW | 2 | X | | | -03 | |
| 47WW25R | 5/28/20 | 1720 | GW | 2 | X | | | -04 | |
| LHSMW50 | 5/29/20 | 0735 | GW | 2 | X | | | -05 | |
| ~~47WW42~~ EDD 47WW24 | 5/29/20 | 0835 | GW | 2 | X | | | -06 | |
| ~~DPT-019 (4-5)~~ | ~~6/1/20~~ | ~~0955~~ | ~~SO~~ | ~~1~~ | ~~X~~ | ~~EDD~~ | | | |
| ~~DPT-019 (8-9)~~ | ~~6/1/20~~ | ~~1015~~ | ~~SO~~ | ~~1~~ | ~~X~~ | ~~EDD~~ | | | |
| ~~DPT-019 (14-15)~~ | ~~6/1/20~~ | ~~1055~~ | ~~SO~~ | ~~1~~ | ~~X~~ | ~~EDD~~ | | | |
| ~~DPT-019 (22-23)~~ | ~~6/1/20~~ | ~~1305~~ | ~~SO~~ | ~~1~~ | ~~X~~ | ~~EDD~~ | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

Relinquished By: [signature] Date: 6/1/20 Time: 1730
Received By: [signature] Date: 6/2/20 Time: 07:49
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NV
Thermometer #/ Exp. Date: NT
Temp Blank: ☐ Y ☐ N

E-3116 Rev. 12/15

01014241

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

# CHAIN OF CUSTODY

No. 10317 Page: 1 of: 1

Lab Work Order #: R202302

Report To: Lynn Lutz
Company: HBR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | Preservation Codes / Analyses Requested | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|
| DPT-018 (7-8) | 6/1/20 | 1505 | SO | 1 | X | | | -01 | 07155 |
| DPT-018 (15-16) | 6/1/20 | 1515 | SO | 1 | X | | | -02 | |
| DPT-018 (21-22) | 6/1/20 | 1525 | SO | 1 | X | | | -03 | |
| DPT-018 (32-33) | 6/1/20 | 1605 | SO | 1 | X | | 43 PID | -04 | |
| DPT-019 (4-5) | 6/1/20 | 0955 | SO | 1 | X | | | -05 | |
| DPT-019 (8-9) | 6/1/20 | 1015 | SO | 1 | X | | | -06 | |
| DPT-019 (14-15) | 6/1/20 | 1055 | SO | 1 | X | | | -07 | |
| DRT-019 (22-23) | 6/1/20 | 1305 | SO | 1 | X | | | -08 | 2 |
| | | | | | | | | | |
| | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

Relinquished By: Date: 6/1/20 Time: 1730 Received By: Date: 6/2/20 Time: 07:55
Relinquished By: Date: Time: Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3117

Rev. 12/15

01014242

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# CHAIN OF CUSTODY

No. 13600 Page: 1 of: 1

Lab Work Order #: L202303

Project Number: 1007916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-019(36) | 6/2/20 | 0650 | GW | 2 | X | | | | | | | -01 | 0755 |
| DPT-018(40) | 6/2/20 | 0710 | GW | 2 | X | | | | | | | -02 | ↓ |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/2/20 | 0755 | Received By: | 6/2/20 | 0755 |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3118

Rev. 12/15

01014243

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# CHAIN OF CUSTODY

No. 13601 Page: 1 of: 1

Lab Work Order #: R203305

Project Number: 1097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

Preservation Codes
Analyses Requested

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|
| DPT-016 (7-8) | 6/2/20 | 1000 | SO | 1 | | -01 | 17:17 |
| DPT-016 (13-14) | 6/2/20 | 1005 | SO | 1 | | -02 | |
| DPT-016 (21-22) | 6/2/20 | 1015 | SO | 1 | | -03 | |
| DPT-016 (24-25) | 6/2/20 | 1050 | SO | 3 | MS/MSD | -04 | |
| DUP-01 | 6/2/20 | 1010 | SO | 1 | | -05 | |
| ~~DPT-015 (3-4)~~ | ~~6/3/20~~ | ~~0740~~ | ~~SO~~ | ~~1~~ | EN | | 9:37 |
| ~~DPT-015 (15-16)~~ | ~~6/3/20~~ | ~~0750~~ | ~~SO~~ | ~~1~~ | EN | | |
| ~~DPT-015 (19-20)~~ | ~~6/3/20~~ | ~~0805~~ | ~~SO~~ | ~~1~~ | EN | | |
| ~~DPT-015 (23-24)~~ | ~~6/3/20~~ | ~~0900~~ | ~~SO~~ | ~~1~~ | EN | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

Relinquished By: [signature] Date: 6/3/20 Time: 0930
Received By: [signature] Date: 6/3/20 Time: 09:30
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3119 Rev. 12/15

01014244

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# CHAIN OF CUSTODY

No. 13633 Page: 1 of: 2

Lab Work Order #: R202306

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 1009796 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-015 (3-4) | 6/3/20 | 0740 | SO | 1 | X | | | | | | | -01 | 09:37 |
| DPT-015 (15-16) | 6/3/20 | 0750 | SO | 1 | X | | | | | | | -02 | |
| DPT-015 (19-20) | 6/3/20 | 0805 | SO | 1 | X | | | | | | | -03 | |
| DPT-015 (23-24) | 6/3/20 | 0900 | SO | 1 | X | | | | | | | -04 | |
| DPT-017 (10-11) | 6/3/20 | 1340 | SO | 1 | X | | | | | | | -05 | 17:00 |
| DPT-017 (17-18) | 6/3/20 | 1350 | SO | 1 | X | | | | | | 21.8 PID | -06 | |
| DPT-017 (23-24) | 6/3/20 | 1405 | SO | 1 | X | | | | | | | -07 | |
| DPT-017 (19-20) | 6/3/20 | 1410 | SO | 1 | X | | | | | | 15.9 PID | -08 | |
| DUP-03 | 6/3/20 | 0800 | SO | 1 | X | | | | | | | -09 | |
| DPT-014 (3-4) | 6/3/20 | 1540 | SO | 1 | X | | | | | | 27.8 PID | -10 | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/3/20 | 1700 | Received By: | 6/3/20 | 17:00 |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3120

Rev. 12/15

01014245

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608-221-4889 (fax)

# CHAIN OF CUSTODY

No. 13613 Page: 2 of: 2

Lab Work Order #: R202306

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-014 (19-20) | 6/3/20 | 1550 | SO | 1 | X | | | | | | 15.2 PID | -11 | 17:00 |
| DPT-014 (10-11) | 6/3/20 | 1620 | SO | 1 | X | | | | | | 9.5 PID | -12 | " |
| DPT-014 (25-26) | 6/3/20 | 1600 | SO | 1 | X | | | | | | 19.9 PID | -13 | " |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 6/3/20 | 1700 | | 6/3/20 | 17:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| | | | | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3121

Rev. 12/15

01014246

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# CHAIN OF CUSTODY

No. 13609 Page: 1 of: 1

Lab Work Order #: R202307

Project Number: 1007916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HGR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-016 (42) | 6/2/20 | 1440 | GW | 2 | X | | | | | | | -01 | 09:30 |
| DPT-016 (33) | 6/3/20 | 0700 | GW | 2 | X | | | | | | | -02 | ↓ |
| | | | | | | | | | | | | | |
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**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/3/20 | 0930 | Received By: | | |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: FedEx
Receipt Temp: N/A
Thermometer #/ Exp. Date: N/A
Temp Blank: ☐ Y ☐ N

Rev. 12/15

E-3122

01014247

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# CHAIN OF CUSTODY

No. 13618 Page: 1 of: 1

Lab Work Order #: L202308

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, Tx

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-015(50) | 6/4/20 | 0630 | GW | 2 | X | | | | | | MS/MSD | -01 | 08:00 |
| DUP-05 | 6/4/20 | 0705 | GW | 2 | X | | | | | | | -02 | |
| DPT-015(31) | 6/4/20 | 0710 | GW | 2 | X | | | | | | | -03 | |
| DPT-017(42) | 6/4/20 | 0715 | GW | 2 | X | | | | | | | -04 | |
| DPT-017(32) | 6/4/20 | 0720 | GW | 2 | X | | | | | | | -05 | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/4/20 | 1620 | Received By: | 6/4/20 | 1620 |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: ND
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3123

Rev. 12/15

01014248

Pace Analytical
ECCS Mobile Lab Services

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608-221-4889 (fax)

# CHAIN OF CUSTODY

No. 13614 Page: 1 of: 2

Lab Work Order #: R202309

Project Number: 1009916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

Preservation Codes
Analyses Requested

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-013 (1-2) | 6/4/20 | 0755 | SO | 1 | X | | | | | | | -01 | 1150 |
| DPT-013 (11-12) | 6/4/20 | 0800 | SO | 1 | X | | | | | | | -02 | |
| DPT-013 (17-18) | 6/4/20 | 0810 | SO | 1 | X | | | | | | | -03 | |
| DPT-013 (20-21) | 6/4/20 | 0835 | SO | 1 | X | | | | | | | -04 | |
| DPT-012 (3-4) | 6/4/20 | 0920 | SO | 3 | X | | | | | | MS/MSD | -05 | |
| DPT-012 (11-12) | 6/4/20 | 0925 | SO | 1 | X | | | | | | 3 PID | -06 | |
| DPT-012 (17-18) | 6/4/20 | 0940 | SO | 1 | X | | | | | | | -07 | |
| DPT-012 (7-8) | 6/4/20 | 0945 | SO | 1 | X | | | | | | | -08 | |
| DPT-020 (11-12) | 6/4/20 | 1025 | SO | 1 | X | | | | | | | -09 | |
| DPT-020 (18-19) | 6/4/20 | 1035 | SO | 1 | X | | | | | | | -10 | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/4/20 | 1620 | Received By: Jeff Hart | 6/4/20 | 1620 |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3124

Rev. 12/15

01014249

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# CHAIN OF CUSTODY

No. 13615 Page: 2 of: 2

Lab Work Order #: R202309

Project Number: 100776.16 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, Tx
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-020 (14-15) | 6/4/20 | 1100 | SO | 1 | X | | | | | | | -11 | 11:50 |
| DUP-06 | 6/4/20 | 1030 | SO | 1 | X | | | | | | | -12 | " |
| DPT-020 (5-6) | 6/4/20 | 1120 | SO | 1 | X | | | | | | | -13 | " |
| DPT-021 (6-7) | 6/4/20 | 1415 | SO | 1 | X | | | | | | | -14 | 16:18 |
| DPT-021 (10-11) | 6/4/20 | 1430 | SO | 1 | X | | | | | | | -15 | " |
| DUP-07 | 6/4/20 | 1425 | SO | 1 | X | | | | | | | -16 | " |
| DPT-024 (19-20) | 6/4/20 | 1450 | SO | 1 | X | | | | | | | -17 | " |
| DPT-021 (23-24) | 6/4/20 | 1455 | SO | 1 | X | | | | | | | -18 | " |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

Relinquished By: [signature] Date: 6/4/20 Time: 1620
Received By: [signature] Date: 6/4/20 Time: 16:20
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walkin
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3125 Rev. 12/15

01014250

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608-221-4889 (fax)

# CHAIN OF CUSTODY

No. 13603 Page: 1 of: 1

Lab Work Order #: R202310

Report To: Lynn Lutz
Company: ADR
Address 1:
Address 2:
E-mail Address:

Project Number: NO97916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|
| DPT-022 (5-6) | 6/5/20 | 0950 | SO | 1 | X | | -01 | 16:55 |
| DPT-022 (14-15) | 6/5/20 | 1000 | SO | 3 | X | MS/MSD | -02 | |
| DPT-022 (8-9) | 6/5/20 | 1005 | SO | 1 | X | | -03 | |
| DPT-022 (20-21) | 6/5/20 | 1030 | SO | 1 | X | | -04 | |
| DPT-027 (8-9) | 6/5/20 | 1320 | SO | 1 | X | | -05 | |
| DPT-027 (11-12) | 6/5/20 | 1325 | SO | 1 | X | | -06 | |
| DPT-027 (2-3) | 6/5/20 | 1350 | SO | 1 | X | | -07 | |
| DPT-027 (5-6) | 6/5/20 | 1400 | SO | 1 | X | | -08 | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

Relinquished By: John Moore Date: 06/05 Time: 1800
Received By: Date: 6/5/20 Time: 18:00
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Next/Kill
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3126 Rev. 12/15

01014251

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ECCS Mobile Lab Services

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# CHAIN OF CUSTODY

No. 13616 Page: 1 of: 1

Lab Work Order #: R202311

Project Number: 1009716 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): Eric Nolte

Report To: Lynn Lutz
Company: AOR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Preservation Codes: VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Analyses Requested | | | | | | | | |
| DPT-021(36) | 6/5/20 | 0715 | GW | 2 | X | | | | | | | -01 | 18:00 |
| DPT-020(44) | 6/5/20 | 0825 | GW | 2 | X | | | | | | | -02 | ↓ |
| ~~DPT-015(22)~~ | ~~6/5/20~~ | ~~0835~~ | ~~GW~~ | ~~2~~ | ~~X~~ | | EN | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| John Moon | 06/05 | 1800 | Jeff Lutz | 6/5/20 | 18:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| | | | | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

Rev. 12/15

E-3127

01014252

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2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

# CHAIN OF CUSTODY

No. 13602 Page: 1 of: 1

Lab Work Order #: R202401-

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 100 97916 PO Number:
Project Name: LHAAP Bldg 46 A
Project Location (City, State): Karnack, Tx
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric Nartz

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOCs | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|
| DPT-026 (3-4) | 6/7/20 | 0735 | SO | 1 | X | | -01 | 0712 0 |
| DPT-026 (16-17) | 6/7/20 | 0750 | SO | 1 | X | | -02 | |
| DPT-026 (17-18) | 6/7/20 | 0755 | SO | 1 | X | | -03 | |
| DPT-026 (26-27) | 6/7/20 | 0800 | SO | 1 | X | | -04 | |
| DPT-023 (2-3) | 6/7/20 | 1230 | SO | 1 | X | | -05 | |
| DPT-023 (4-5) | 6/7/20 | 1330 | SO | 1 | X | | -06 | |
| DPT-023 (7-8) | 6/7/20 | 1350 | SO | 1 | X | | -07 | |
| DPT-023 (9-10) | 6/7/20 | 1405 | SO | 1 | X | | -08 | |
| | | | | | | | | |
| | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/8/20 | 0725 | Received By: | 6/8/20 | 0725 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3128

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# CHAIN OF CUSTODY

No. 13617 Page: 1 of: 2

Lab Work Order #: R202402

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 464
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): Eric North

Report To: Lynn Lutz
Company: HGR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-022(36) | 06/06/20 | 0845 | GW | 2 | X | | | | | | | -01 | 07:20 |
| DPT-026(45) | 6/8/20 | 0625 | GW | 2 | X | | | | | | | -02 | " |
| DPT-026(36) | 6/8/20 | 0635 | GW | 2 | X | | | | | | | -03 | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 6/8/20 | 0725 | | 6/8/20 | 07:25 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| | | | | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3129

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01014254

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# CHAIN OF CUSTODY

No. 13608 Page: 2 of: 2

Lab Work Order #: R202402

Report To: Lynn Lutz
Company: IIOR
Address 1:
Address 2:
E-mail Address:

Project Number: 100976
PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State):

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Preservation Codes / Analyses Requested: VOC | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|
| DPT-023(42) | 6/8/20 | 1635 | GW | 2 | X | | -04 | 16:50 |
| DPT-024(44) | 6/8/20 | 1645 | GW | 2 | X | | -05 | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 6/8/20 | 1655 | | 6/8/20 | 16:55 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| | | | | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walkin
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

01014255

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# CHAIN OF CUSTODY

No. 13604 Page: 1 of: 1

Lab Work Order #: R202403

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 120 97916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print):

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-024 (9-10) | 6/8/20 | 1145 | SO | 3 | X | | | | | | | -01 | 13:00 |
| DUP-08 | 6/8/20 | 1100 | SO | 1 | X | | | | | | | -02 | |
| DPT-024 (13-14) | 6/8/20 | 1200 | SO | 1 | X | | | | | | | -03 | |
| DPT-024 (17-18) | 6/8/20 | 1205 | SO | 1 | X | | | | | | | -04 | |
| DPT-024 (21-22) | 6/8/20 | 1210 | SO | 1 | X | | | | | | | -05 | |
| DUP-09 | 6/8/20 | 1215 | SO | 1 | X | | | | | | | -06 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 6/8/20 | 1455 | | 6/8/20 | 16:55 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| | | | | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Na/Kn
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3131 Rev. 12/15

01014256

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608-221-4889 (fax)

# CHAIN OF CUSTODY

No. 13610 Page: 1 of: 1

Lab Work Order #: R202404

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print):

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-024(33') | 6/9/20 | 0710 | GW | 2 | X | | | | | | | -01 | 08:00 |
| DPT-013(33) | 6/9/20 | 0720 | GW | 2 | X | | | | | | | -02 | |
| DPT-012(33) | 6/9/20 | 0730 | GW | 2 | X | | | | | | | -03 | |
| DPT-023(33) | 6/9/20 | 0650 | GW | 1 | X | | | | | | | -04 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 6/9/20 | Time: 0800 | Received By: | Date: 6/9/20 | Time: 08:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3132

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01014257

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# CHAIN OF CUSTODY

No. 13605 Page: 1 of: 1

Lab Work Order #: R202405

Report To: Lyon Lutz
Company: ARR
Address 1:
Address 2:
E-mail Address:

Project Number: 100 97916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:** Eric North
Sampled By (Print):

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-025 (6-7) | 6/9/20 | 1155 | So | 1 | X | | | | | | | -01 | 15:20 |
| DPT-025 (11-12) | 6/9/20 | 1200 | So | 3 | X | | | | | | MS/MSD | -02 | ↓ |
| DPT-025 (17-18) | 6/9/20 | 1205 | So | 1 | X | | | | | | 03 | -03 | ↓ |
| DPT-025 (22-23) | 6/9/20 | 1250 | So | 1 | X | | | | | | 04 | -04 | ↓ |
| | | | | | | | | | | | & 06-30-20 | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 6/9/20 | Time: 1521 | Received By: | Date: 6/9/20 | Time: 15:21 |
| Relinquished By: | Date: 6/9/20 | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3133

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# CHAIN OF CUSTODY

No. 13606 Page: 1 of: 1

Lab Work Order #: R202406

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print):

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Preservation Codes: VOC | Analyses Requested | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|
| DPT-025(36) | 6/10/20 | 0655 | GW | 2 | X | | MS/MSD | -01 | 08:18 |
| DUP-10 | 6/10/20 | 0700 | GW | 2 | X | | | -02 | " |
| DPT-028(45) | 6/10/20 | 1605 | GW | 2 | X | | | -03 | 16:25 |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 6/10/20 | 1626 | | 6/10/20 | 16:26 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| | | | | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walk in
Receipt Temp: N/A
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3134

Rev. 12/15

01014259

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# CHAIN OF CUSTODY

No. 13607 Page: 1 of: 1

Lab Work Order #: R202407

Project Number: 1009716 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-028(10-11) | 6/10/20 | 0740 | SO | 3 | X | | | | | | MS/MSD | -01 | 08:18 |
| DPT-028(13-14) | 6/10/20 | 0745 | SO | 1 | X | | | | | | | -02 | |
| DPT-028(16-17) | 6/10/20 | 0750 | SO | 1 | X | | | | | | | -03 | |
| DUP-011 | 6/10/20 | 0735 | SO | 1 | X | | | | | | | -04 | |
| DPT-028(21-22) | 6/10/20 | 0800 | SO | 1 | X | | | | | | | -05 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 6/10/20 | 1620 | | 6/10/20 | 16:26 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| | | | | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

Rev. 12/15

E-3135

01014260

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# CHAIN OF CUSTODY

No. 13623 Page: 1 of: 2

Lab Work Order #: R202408

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

Preservation Codes
Analyses Requested

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|
| DPT-029 (7-8) | 6/11/20 | 0755 | SO | 3 | X | MS/MSD | -01 | 09:05 |
| DUP-12 | 6/11/20 | 0730 | SO | 1 | X | | -02 | " |
| DPT-029 (13-14) | 6/11/20 | 0810 | SO | 1 | X | | -03 | " |
| DPT-029 (17-18) | 6/11/20 | 0815 | SO | 1 | X | | -04 | " |
| DPT-029 (21-22) | 6/11/20 | 0820 | SO | 1 | X | | -05 | " |
| DUP-13 | 6/11/20 | 0825 | SO | 1 | X | | -06 | " |
| DPT-030 (10-11) | 6/11/20 | 1345 | SO | 1 | X | | -07 | 17:35 |
| DUP-14 | 6/11/20 | 1400 | SO | 1 | X | | -08 | " |
| DPT-030 (15-16) | 6/11/20 | 1355 | SO | 1 | X | | -09 | " |
| DPT-030 (17-18) | 6/11/20 | 1405 | SO | 1 | X | | -10 | " |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$ D=$HNO_3$ E=EnCore F=Methanol G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/11/20 | 1735 | Received By: | 6/11/20 | 17:35 |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk'n
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

Rev. 12/15

E-3136

01014261

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# CHAIN OF CUSTODY

No. 13611 Page: 2 of: 2

Lab Work Order #: R202408

Project Number: 100979.16 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Report To:
Company:
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~DPT~~-030 (19-20) | 6/11/20 | 1410 | SO | 3 | X | | | | | | MS/MSD | -11 | 17:35 |
| DPT-027 (17-18) | 6/11/20 | 1705 | SO | 1 | X | | | | | | | -12 | " |
| DPT-027 (22-23) | 6/11/20 | 1710 | SO | 1 | X | | | | | | | -13 | " |
| ~~DPT-027-fm~~ | ~~6/11/20~~ | fm | | | | | | | | | | | |
| ~~DPT-027 (22-23)~~ fm | ~~6/11/20~~ | fm | | | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/11/20 | 1735 | Received By: | 6/11/20 | 17:35 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walkin
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3137

Rev. 12/15

01014262

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# CHAIN OF CUSTODY

No. 13627 Page: 1 of: 2

Lab Work Order #: A202409

Project Number: 10097916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Preservation Codes: VOC | Analyses Requested | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|
| FB-01 | 6/11/20 | 0720 | FB | 2 | X | | | -01 | 09:05 |
| FB-02 | 6/11/20 | 0745 | FB | 2 | X | | | -02 | ↓ |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$ D=$HNO_3$ E=EnCore F=Methanol G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/11/20 | 1735 | Received By: | 6/11/20 | 17:35 |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: na/KVn
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

Rev. 12/15

E-3138

01014263

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# CHAIN OF CUSTODY

No. 13612 Page: 2 of: 2

Lab Work Order #: R202409

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 100 97916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Eric North

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-03 | 6/12/20 | 0650 | EB | 2 | X | | | | | | | -03 | 08:05 |
| EB-04 | 6/12/20 | 0655 | EB | 2 | X | | | | | | | -04 | |
| DPT-029(45) | 6/12/20 | 0710 | GW | 2 | X | | | | | | MS/MSD | -05 | |
| DUP-15 | 6/12/20 | 0700 | GW | 2 | X | | | | | | | -06 | |
| DPT-029(34) | 6/12/20 | 0725 | GW | 2 | X | | | | | | | -07 | |
| DUP-16 | 6/12/20 | 0715 | GW | 2 | X | | | | | | | -08 | " |
| DPT-031(33) | 6/12/20 | 1450 | GW | 2 | X | | | | | | | -09 | 15:17 |
| DPT-027(33) | 6/12/20 | 1505 | GW | 2 | X | | | | | | | -10 | " |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 06/12/20 | Time: 15:17 | Received By: | Date: 6/12/20 | Time: 15:17 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: NA
Thermometer #/ Exp. Date: N/A
Temp Blank: ☐ Y ☐ N

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01014264

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# CHAIN OF CUSTODY

No. 13619 Page: 1 of: 1

Lab Work Order #: R202410

Report To: Lyon Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10247916 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): Eric North

Preservation Codes
Analyses Requested

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-031 (12-13) | 6/12/20 | 1050 | SO | 3 | X | | | | | | MS/MSD | -01 | 11:45 |
| DPT-031 (3-4) | 6/12/20 | 1055 | SO | 1 | X | | | | | | | -02 | |
| DPT-031 (16-17) | 6/12/20 | 1100 | SO | 1 | X | | | | | | | -03 | |
| DPT-031 (21-22) | 6/12/20 | 1210 | SO | 1 | X | | | | | | | -04 | 13:45 |
| | | | | | | | | | | | | | |
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**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 6/12/20 | 1345 | Received By: | 6/12/20 | 13:45 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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01014265

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# CHAIN OF CUSTODY

No. 13628 Page: 1 of: 1

Lab Work Order #: R202411

Project Number: 10097716 PO Number:
Project Name: LHAAP Bldg 46A
Project Location (City, State): Karnack, Tx
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): JACOB MOORMAN

Report To: Lynn Lutz
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|
| DPT-032(12-13) | 06/13 | 0915 | SO | 3 | X | | -01 | 09:15 |
| DPT-032(15-16) | 06/13 | 0920 | SO | 1 | X | | -02 | |
| DPT-032(19-20) | 06/13 | 0925 | SO | 1 | X | | -03 | |
| DPT-032(21-22) | 06/13 | 0930 | SO | 1 | X | | -04 | 2 |
| DPT-033(8-9) | 06/13 | 1220 | SO | 1 | X | | -05 | 12.50 |
| DPT-033(12-13) | 06/13 | 1230 | SO | 1 | X | | -06 | |
| DPT-033(19-20) | 06/13 | 1235 | SO | 1 | X | | -07 | |
| DPT-033(22-23) | 06/13 | 1240 | SO | 1 | X | | -08 | 8 |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: John Moorman | Date: 06/13 | Time: 1620 | Received By: | Date: 6/13/20 | Time: 1620 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

01014266

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# CHAIN OF CUSTODY

No. 13620 Page: 1 of: 1

Lab Work Order #: RA02412

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): JACOB MOORMAN

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Preservation Codes: VOC | Analyses Requested | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|
| ~~DPT-034(35)~~ JM | ~~06/13~~ | 1550 | GW | 2 | X | JM | | | |
| DPT-032(35) | 06/13 | 1550 | GW | 2 | X | | | -01 | 16:20 |
| ~~DPT-032(50)~~ JM DPT-032(49.5) | 06/13 | 1690 | GW | 2 | X | | | -02 | 2 |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: John Moorman | 06/13 | 1620 | Received By: | 6/13/13 | 16:20 |
| Relinquished By: | | | Received By: | | |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

E-3142

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# CHAIN OF CUSTODY

No. 13632 Page: 1 of: 1

Lab Work Order #: R202501

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-033(49) | 06/14 | 0700 | GW | 2 | X | | | | | | | -01 | 07:30 |
| DPT-033(33) | 06/14 | 0705 | GW | 2 | X | | | | | | | -02 | " |
| DPT-034(33) | 06/14 | 0950 | GW | 2 | X | | | | | | | -03 | 10:05 |
| | | | | | | | | | | | | | |
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Preservation Codes
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: [signature] Date: 04/14 Time: 1005 Received By: [signature] Date: 4/14/20 Time: 10105
Relinquished By: Date: Time: Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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E-3143

01014268

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# CHAIN OF CUSTODY

No. 13631 Page: 1 of: 1

Lab Work Order #: R202502

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-034 (8-9) | 06/14 | 0805 | SO | 3 | X | | | | | | | -01 | 08:41 |
| DPT-034 (15-16) | 06/14 | 0810 | SO | 1 | X | | | | | | | -02 | |
| DPT-034 (18-19) | 06/14 | 0815 | SO | 1 | X | | | | | | | -03 | |
| DPT-034 (22-23) | 06/14 | 0820 | SO | 1 | X | | | | | | | -04 | 〃 |
| DPT-035 (10-11) | 06/14 | 1250 | SO | 1 | X | | | | | | | -05 | 14:40 |
| DPT-035 (15-16) | 06/14 | 1255 | SO | 1 | X | | | | | | | -06 | |
| DPT-035 (18-19) | 06/14 | 1300 | SO | 1 | X | | | | | | | -07 | |
| DPT-035 (21-22) | 06/14 | 1305 | SO | 1 | X | | | | | | | -08 | 〃 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 〃 |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 06/14 | Time: 1440 | Received By: | Date: 14:40 | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walkin
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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E-3144

01014269

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# CHAIN OF CUSTODY

No. 13630 Page: 1 of: 1

Lab Work Order #: R202503

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOORMAN

Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-035(49.5) | 06/15 | 0710 | GW | 2 | X | | | | | | | -01 | 07:38 |
| | | | | | | | | | | | | | |
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**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: Jacob Moorman | Date: 06/16 | Time: 07:35 | Received By: | Date: 6/16/15 | Time: 07:35 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: FedEx
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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E-3145

01014270

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# CHAIN OF CUSTODY

No. 13626 Page: 1 of: 1

Lab Work Order #: B202504

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): JACOB MOORMAN

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Preservation Codes: VOC | Analyses Requested | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|
| DPT-036 (11-12) | 06/15 | 1155 | SO | 3 | X | | | -01 | 12:37 |
| DPT-036 (15-16) | 06/15 | 1200 | SO | 1 | X | | | -02 | |
| DPT-036 (18-19) | 06/15 | 1205 | SO | 1 | X | | | -03 | |
| DPT-036 (21-22) | 06/15 | 1210 | SO | 1 | X | | | -04 | |
| DPT-037 (11-12) | 06/15 | 1350 | SO | 1 | X | | | -05 | 14:05 |
| DPT-037 (14-15) | 06/15 | 1355 | SO | 1 | X | | | -06 | |
| DPT-037 (18-19) | 06/15 | 1400 | SO | 1 | X | | | -07 | |
| DPT-037 (21-22) | 06/15 | 1405 | SO | 1 | X | | | -08 | |
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| | | | | | | | | | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 06/15 | Time: 1410 | Received By: | Date: 6/15/20 | Time: 14:10 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

Rev. 12/15

E-3146

01014271

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# CHAIN OF CUSTODY

No. 13629 Page: 2 of: 2

Lab Work Order #: R202504

Project Number: 10097916 PO Number:
Project Name: BLDG. 46A LHAAP
Project Location (City, State): KARNACK, TX
Turn Around (check one): ☐ Normal ☐ Rush
**If Rush, Report Due Date:**
Sampled By (Print): JACOB MOORMAN

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | Preservation Codes: VOC | Analyses Requested | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|
| DPT-038(11-12) | 06/15 | 1540 ~~1540~~ | SO | 1 | X | | | -09 | 16:00 |
| DPT-038(15-16) | 06/15 | 1545 ~~1545~~ | SO | 1 | X | | | -10 | |
| DPT-038(18-19) | 06/15 | 1550 ~~1550~~ | SO | 1 | X | | | -11 | |
| DPT-038(22-23) | 06/15 | ~~1600~~ ~~1555~~ 1555 | SO | 1 | X | | | -12 | |

**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

Relinquished By: John Moorman Date: 06/15 Time: 16:05
Received By: Date: 6/15/15 Time: 16:05
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

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E-3147

01014272

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# CHAIN OF CUSTODY

No. 13622 Page: 1 of: 1

Lab Work Order #: 202505

Project Number: 10097916 PO Number:
Project Name: LHAAP BLDG. 46A
Project Location (City, State): KARNACK, TX
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): JACOB MOOREMAN

Preservation Codes
Analyses Requested

Report To: LYNN LUTZ
Company: HDR
Address 1:
Address 2:
E-mail Address:
Invoice To:
Company:
Address 1:
Address 2:

| Sample Description | Collection Date | Collection Time | Matrix | Total # of Containers | VOC | | | | | | Comments | Lab ID | Lab Receipt Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPT-035(33) | 06/16 | 0650 | GW | 2 | X | | | | | | | -01 | 08:40 |
| DPT-037(33) | 06/16 | 0720 | GW | 2 | X | | | | | | | -02 | |
| | | | | | | | | | | | | | |
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**Preservation Codes**
A=None B=HCL C=$H_2SO_4$
D=$HNO_3$ E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

**Matrix Codes**
A=Air S=Soil W=Water O=Other

**Other Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 06/16 | Time: 1335 | Received By: | Date: 6/16/20 | Time: 13:35 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Val/Kit
Receipt Temp: NA
Thermometer #/ Exp. Date: NA
Temp Blank: ☐ Y ☐ N

Rev. 12/15

E-3148

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 60 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 8.2 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.9 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 100 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.9 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 0.8 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202301-01 | 47WW14 | Water | 5/28/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 37 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 170 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 1.3 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.2 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 98.8 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.3 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 4 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.81 |
| R202301-02 | 47WW13 | Water | 5/28/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 120 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 12 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.1 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 101 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.7 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202301-03 | 47WW37 | Water | 5/28/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 180 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202301-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-01 | ug/L | 2.5 | 0.55 | 1.3 | 2.5 | 5 | D | | 6/2/2020 | 6/5/2020 |
| R202301-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-01 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-02 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-02 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-02 | ug/L | 5 | 1.1 | 2.5 | 5 | 10 | D | | 6/2/2020 | 6/5/2020 |
| R202301-02 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-02 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-02 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-02 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-02 | ug/L | 5 | 0.62 | 1.3 | 5 | 10 | D | | 6/2/2020 | 6/5/2020 |
| R202301-03 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-03 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-03 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-03 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-03 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-03 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-03 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-03 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-03 | ug/L | 5 | 0.62 | 1.3 | 5 | 10 | D | | 6/2/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 0.9 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 2500 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 7.8 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.2 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.5 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.7 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 25 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 14 |
| R202301-04 | 47WW25R | Water | 5/28/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 120000 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.5 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.2 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202301-05 | LHSMW50 | Water | 5/29/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 0.6 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.7 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.9 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82.7 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202301-06 | 47WW24 | Water | 5/29/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202301-04 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-04 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-04 | ug/L | 500 | 110 | 250 | 500 | 1000 | D | | 6/2/2020 | 6/5/2020 |
| R202301-04 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-04 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-04 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-04 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-04 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-04 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/2/2020 | 6/4/2020 |
| R202301-04 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/4/2020 |
| R202301-04 | ug/L | 2500 | 310 | 630 | 2500 | 5000 | D | | 6/2/2020 | 6/7/2020 |
| R202301-05 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-05 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-05 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-05 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-05 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/5/2020 |
| R202301-05 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/5/2020 |
| R202301-05 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/5/2020 |
| R202301-05 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-05 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-05 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-05 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | | | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-06 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/5/2020 |
| R202301-06 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/5/2020 |
| R202301-06 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |
| R202301-06 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/2/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 24 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 24 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 24 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 83.4 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 80.6 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 74.3 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 24 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 96 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 24 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 24 |
| R202302-01 | DPT-018 (7-8) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 210 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.2 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.8 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.4 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202302-02 | DPT-018 (15-16) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 470 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.9 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.7 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.6 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202302-03 | DPT-018 (21-22) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 58 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202302-01 | ug/kg wet | 24 | 5.5 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-01 | ug/kg wet | 24 | 7.7 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-01 | ug/kg wet | 24 | 4.3 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-01 | % Recovery | 1200 | 4.8 | 24 | 1200 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-01 | % Recovery | 0.48 | | 0.24 | 0.48 | 1 | | | 6/2/2020 | 6/2/2020 |
| R202302-01 | % Recovery | 1200 | 5.3 | 24 | 1200 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-01 | ug/kg wet | 24 | 5.6 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-01 | ug/kg wet | 96 | 6.7 | 12 | 96 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-01 | ug/kg wet | 24 | 8.9 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-01 | ug/kg wet | 24 | 7 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-01 | ug/kg wet | 24 | 3.9 | 12 | 24 | 1 | | J- | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 30 | 6.8 | 15 | 30 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 30 | 9.6 | 15 | 30 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 30 | 5.4 | 15 | 30 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-02 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-02 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | | | 6/2/2020 | 6/2/2020 |
| R202302-02 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 30 | 6.9 | 15 | 30 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 120 | 8.4 | 15 | 120 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 30 | 11 | 15 | 30 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 30 | 8.7 | 15 | 30 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-02 | ug/kg wet | 30 | 4.9 | 15 | 30 | 1 | | J- | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 31 | 7 | 15 | 31 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 31 | 9.9 | 15 | 31 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 31 | 5.6 | 15 | 31 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-03 | % Recovery | 1500 | 6.2 | 31 | 1500 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-03 | % Recovery | 0.62 | | 0.31 | 0.62 | 1 | | | 6/2/2020 | 6/2/2020 |
| R202302-03 | % Recovery | 1500 | 6.8 | 31 | 1500 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 31 | 7.2 | 15 | 31 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 120 | 8.7 | 15 | 120 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 31 | 11 | 15 | 31 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 31 | 9 | 15 | 31 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-03 | ug/kg wet | 31 | 5.1 | 15 | 31 | 1 | | J- | 6/2/2020 | 6/2/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 480 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.2 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.9 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.4 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202302-04 | DPT-018 (32-33) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 15000 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.2 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93.9 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.3 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202302-05 | DPT-019 (4-5) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 30 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 24 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 24 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 24 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.9 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.4 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.2 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 24 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 97 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 24 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 24 |
| R202302-06 | DPT-019 (8-9) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 48 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202302-04 | ug/kg wet | 27 | 6.2 | 14 | 27 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-04 | ug/kg wet | 27 | 8.7 | 14 | 27 | 1 | | J- | 6/2/2020 | 6/2/2020 |
| R202302-04 | ug/kg wet | 27 | 4.9 | 14 | 27 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-04 | % Recovery | 1400 | 5.4 | 27 | 1400 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-04 | % Recovery | 0.54 | | 0.27 | 0.54 | 1 | | | 6/2/2020 | 6/2/2020 |
| R202302-04 | % Recovery | 1400 | 6 | 27 | 1400 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-04 | ug/kg wet | 27 | 6.3 | 14 | 27 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-04 | ug/kg wet | 110 | 7.6 | 14 | 110 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-04 | ug/kg wet | 27 | 10 | 14 | 27 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-04 | ug/kg wet | 27 | 7.9 | 14 | 27 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-04 | ug/kg wet | 540 | 89 | 270 | 540 | 20 | D | | 6/2/2020 | 6/3/2020 |
| R202302-05 | ug/kg wet | 29 | 6.6 | 15 | 29 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-05 | ug/kg wet | 29 | 9.3 | 15 | 29 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-05 | ug/kg wet | 29 | 5.2 | 15 | 29 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-05 | % Recovery | 1500 | 5.8 | 29 | 1500 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-05 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/2/2020 | 6/2/2020 |
| R202302-05 | % Recovery | 1500 | 6.4 | 29 | 1500 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-05 | ug/kg wet | 29 | 6.7 | 15 | 29 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-05 | ug/kg wet | 120 | 8.1 | 15 | 120 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-05 | ug/kg wet | 29 | 11 | 15 | 29 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-05 | ug/kg wet | 29 | 8.5 | 15 | 29 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-05 | ug/kg wet | 29 | 4.8 | 15 | 29 | 1 | | J- | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 24 | 5.5 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 24 | 7.8 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 24 | 4.4 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-06 | % Recovery | 1200 | 4.9 | 24 | 1200 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-06 | % Recovery | 0.49 | | 0.24 | 0.49 | 1 | | | 6/2/2020 | 6/2/2020 |
| R202302-06 | % Recovery | 1200 | 5.3 | 24 | 1200 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 24 | 5.6 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 97 | 6.8 | 12 | 97 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 24 | 9 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 24 | 7.1 | 12 | 24 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-06 | ug/kg wet | 24 | 4 | 12 | 24 | 1 | | J- | 6/2/2020 | 6/2/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.5 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.1 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.7 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202302-07 | DPT-019 (14-15) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 70 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.7 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 98.6 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.4 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202302-08 | DPT-019 (22-23) | Soil | 6/1/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 32 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 3.1 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.3 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.7 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202303-01 | DPT-019 (36) | Water | 6/2/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 170 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202302-07 | ug/kg wet | 26 | 5.9 | 13 | 26 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-07 | ug/kg wet | 26 | 8.4 | 13 | 26 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-07 | ug/kg wet | 26 | 4.7 | 13 | 26 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-07 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-07 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/2/2020 | 6/2/2020 |
| R202302-07 | % Recovery | 1300 | 5.7 | 26 | 1300 | 1 | U | U | 6/2/2020 | 6/2/2020 |
| R202302-07 | ug/kg wet | 26 | 6.1 | 13 | 26 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-07 | ug/kg wet | 100 | 7.3 | 13 | 100 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-07 | ug/kg wet | 26 | 9.7 | 13 | 26 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-07 | ug/kg wet | 26 | 7.6 | 13 | 26 | 1 | U | UJ | 6/2/2020 | 6/2/2020 |
| R202302-07 | ug/kg wet | 26 | 4.3 | 13 | 26 | 1 | | J- | 6/2/2020 | 6/2/2020 |
| R202302-08 | ug/kg wet | 32 | 7.3 | 16 | 32 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202302-08 | ug/kg wet | 32 | 10 | 16 | 32 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202302-08 | ug/kg wet | 32 | 5.8 | 16 | 32 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202302-08 | % Recovery | 1600 | 6.4 | 32 | 1600 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202302-08 | % Recovery | 0.64 | | 0.32 | 0.64 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202302-08 | % Recovery | 1600 | 7.1 | 32 | 1600 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202302-08 | ug/kg wet | 32 | 7.5 | 16 | 32 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202302-08 | ug/kg wet | 130 | 9 | 16 | 130 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202302-08 | ug/kg wet | 32 | 12 | 16 | 32 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202302-08 | ug/kg wet | 32 | 9.4 | 16 | 32 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202302-08 | ug/kg wet | 32 | 5.3 | 16 | 32 | 1 | U | UJ | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202303-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202303-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-01 | ug/L | 5 | 0.62 | 1.3 | 5 | 10 | D | | 6/2/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 1400 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.3 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.3 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.4 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202303-02 | DPT-018 (40) | Water | 6/2/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 41000 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 103 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 105 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 95.2 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202305-01 | DPT-016 (7-8) | Soil | 6/2/2020 | 6/2/2020 | NA | Y | % Solids | 88 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 85 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.8 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 77.4 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202303-02 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-02 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-02 | ug/L | 100 | 22 | 50 | 100 | 200 | D | | 6/2/2020 | 6/3/2020 |
| R202303-02 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202303-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202303-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202303-02 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-02 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-02 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/2/2020 | 6/3/2020 |
| R202303-02 | ug/L | 1000 | 120 | 250 | 1000 | 2000 | D | | 6/2/2020 | 6/5/2020 |
| R202305-01 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | ug/kg dry | 26 | 8.4 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-01 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | ug/kg dry | 100 | 7.3 | 13 | 100 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | ug/kg dry | 26 | 9.7 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | ug/kg dry | 26 | 7.6 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-02 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-02 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/2/2020 | 6/3/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202305-02 | DPT-016 (13-14) | Soil | 6/2/2020 | 6/2/2020 | NA | Y | % Solids | 84.9 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 104 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 105 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 90.1 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202305-03 | DPT-016 (21-22) | Soil | 6/2/2020 | 6/2/2020 | NA | Y | % Solids | 90 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 101 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 106 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 93.9 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202305-04 | DPT-016 (24-25) | Soil | 6/2/2020 | 6/2/2020 | NA | Y | % Solids | 83.1 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 108 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 112 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 98.6 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 75-01-4 | Y | Vinyl chloride | 29 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202305-02 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 26 | 8.5 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 26 | 4.8 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | % Recovery | 1300 | 5.3 | 26 | 1300 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | % Recovery | 0.53 | | 0.26 | 0.53 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-03 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 110 | 7.4 | 13 | 110 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 26 | 9.9 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 26 | 7.7 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 27 | 6.1 | 13 | 27 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 27 | 8.6 | 13 | 27 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 27 | 4.8 | 13 | 27 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | % Recovery | 1300 | 5.4 | 27 | 1300 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | % Recovery | 0.54 | | 0.27 | 0.54 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-04 | % Recovery | 1300 | 5.9 | 27 | 1300 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 27 | 6.3 | 13 | 27 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 110 | 7.5 | 13 | 110 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 27 | 10 | 13 | 27 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 27 | 7.9 | 13 | 27 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | ug/kg dry | 27 | 4.4 | 13 | 27 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-05 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | ug/kg dry | 29 | 9.2 | 14 | 29 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | % Recovery | 1400 | 5.8 | 29 | 1400 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202305-05 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | ug/kg dry | 29 | 6.7 | 14 | 29 | 1 | U | U | 6/2/2020 | 6/3/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202305-05 | DUP-01 | Soil | 6/2/2020 | 6/2/2020 | NA | Y | % Solids | 82.8 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.5 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 90.1 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 100 |
| R202306-01 | DPT-015 (3-4) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 83.3 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 98.9 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.8 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.8 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202306-02 | DPT-015 (15-16) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 88.7 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 109 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202305-05 | ug/kg dry | 120 | 8.1 | 14 | 120 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | ug/kg dry | 29 | 8.4 | 14 | 29 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | U | U | 6/2/2020 | 6/3/2020 |
| R202305-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/2/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 29 | 9.2 | 14 | 29 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | % Recovery | 1400 | 5.8 | 29 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-01 | % Recovery | 1400 | 6.4 | 29 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 29 | 6.7 | 14 | 29 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 120 | 8.1 | 14 | 120 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 29 | 8.4 | 14 | 29 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-01 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-02 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-02 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-03 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | ug/kg dry | 28 | 9 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 110 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 96.8 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202306-03 | DPT-015 (19-20) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 91.5 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 87.2 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 74.9 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 210 |
| R202306-04 | DPT-015 (23-24) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 80.9 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 121 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 120 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 104 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202306-05 | DPT-017 (10-11) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 92.1 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202306-03 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-03 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | ug/kg dry | 110 | 7.9 | 14 | 110 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-04 | ug/kg dry | 30 | 6.8 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | ug/kg dry | 30 | 9.5 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | ug/kg dry | 30 | 5.3 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | % Recovery | 1500 | 5.9 | 30 | 1500 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | % Recovery | 0.59 | | 0.3 | 0.59 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-04 | % Recovery | 1500 | 6.5 | 30 | 1500 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | ug/kg dry | 120 | 8.3 | 15 | 120 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | ug/kg dry | 30 | 8.7 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-04 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-05 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | ug/kg dry | 28 | 9.1 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | % Recovery | 1400 | 5.7 | 28 | 1400 | 1 | S, U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | % Recovery | 0.57 | | 0.28 | 0.57 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-05 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | ug/kg dry | 28 | 6.6 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | ug/kg dry | 28 | 11 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | ug/kg dry | 28 | 8.3 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | ug/kg dry | 28 | 4.7 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-06 | ug/kg dry | 27 | 6 | 13 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.8 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.9 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202306-06 | DPT-017 (17-18) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 92.9 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.8 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.3 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 730 |
| R202306-07 | DPT-017 (23-24) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 85.9 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 98.4 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.2 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.1 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202306-06 | ug/kg dry | 27 | 8.5 | 13 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | ug/kg dry | 27 | 4.8 | 13 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | % Recovery | 1300 | 5.3 | 27 | 1300 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | % Recovery | 0.53 | | 0.27 | 0.53 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-06 | % Recovery | 1300 | 5.8 | 27 | 1300 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | ug/kg dry | 27 | 6.2 | 13 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | ug/kg dry | 110 | 7.4 | 13 | 110 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | ug/kg dry | 27 | 9.9 | 13 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | ug/kg dry | 27 | 7.7 | 13 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | ug/kg dry | 27 | 4.4 | 13 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-07 | ug/kg dry | 27 | 6.2 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | ug/kg dry | 27 | 8.7 | 14 | 27 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-07 | ug/kg dry | 27 | 4.9 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | % Recovery | 1400 | 5.4 | 27 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | % Recovery | 0.54 | | 0.27 | 0.54 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-07 | % Recovery | 1400 | 6 | 27 | 1400 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | ug/kg dry | 27 | 6.3 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | ug/kg dry | 110 | 7.6 | 14 | 110 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | ug/kg dry | 27 | 10 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | ug/kg dry | 27 | 7.9 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-07 | ug/kg dry | 27 | 4.5 | 14 | 27 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-08 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | ug/kg dry | 28 | 9.1 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | % Recovery | 1400 | 5.7 | 28 | 1400 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | % Recovery | 0.57 | | 0.28 | 0.57 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-08 | % Recovery | 1400 | 6.3 | 28 | 1400 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | ug/kg dry | 28 | 6.6 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | ug/kg dry | 28 | 11 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | ug/kg dry | 28 | 8.3 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202306-08 | DPT-017 (19-20) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 92.7 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 98.2 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.3 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.9 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202306-09 | DUP-03 | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 92.1 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 37 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 37 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 37 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.4 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.5 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 37 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 150 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 37 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 37 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 37 |
| R202306-10 | DPT-014 (3-4) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 80.7 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 98.8 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.7 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.9 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 27 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202306-08 | ug/kg dry | 28 | 4.7 | 14 | 28 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-09 | ug/kg dry | 26 | 5.9 | 13 | 26 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | ug/kg dry | 26 | 8.3 | 13 | 26 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202306-09 | % Recovery | 1300 | 5.7 | 26 | 1300 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | ug/kg dry | 100 | 7.3 | 13 | 100 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | ug/kg dry | 26 | 9.7 | 13 | 26 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | ug/kg dry | 26 | 7.6 | 13 | 26 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202306-09 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 37 | 8.4 | 18 | 37 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 37 | 12 | 18 | 37 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 37 | 6.6 | 18 | 37 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | % Recovery | 1800 | 7.4 | 37 | 1800 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | % Recovery | 0.74 | | 0.37 | 0.74 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-10 | % Recovery | 1800 | 8.1 | 37 | 1800 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 37 | 8.6 | 18 | 37 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 150 | 10 | 18 | 150 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 37 | 14 | 18 | 37 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 37 | 11 | 18 | 37 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | ug/kg dry | 37 | 6.1 | 18 | 37 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-10 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-11 | ug/kg dry | 27 | 6.2 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | ug/kg dry | 27 | 8.7 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | ug/kg dry | 27 | 4.9 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | % Recovery | 1400 | 5.4 | 27 | 1400 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | % Recovery | 0.54 | | 0.27 | 0.54 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-11 | % Recovery | 1400 | 6 | 27 | 1400 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | ug/kg dry | 27 | 6.3 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202306-11 | DPT-014 (19-20) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 90.1 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97.5 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 101 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.4 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 30 |
| R202306-12 | DPT-014 (10-11) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 89.9 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 41 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 99.4 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.1 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.6 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 630 |
| R202306-13 | DPT-014 (25-26) | Soil | 6/3/2020 | 6/3/2020 | NA | Y | % Solids | 91.4 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202306-11 | ug/kg dry | 110 | 7.6 | 14 | 110 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | ug/kg dry | 27 | 10 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | ug/kg dry | 27 | 7.9 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | ug/kg dry | 27 | 4.4 | 14 | 27 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-11 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 30 | 6.8 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 30 | 9.6 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-12 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 30 | 7 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 120 | 8.4 | 15 | 120 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 30 | 8.8 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-12 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 30 | 6.8 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 30 | 9.6 | 15 | 30 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-13 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 30 | 7 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 120 | 8.4 | 15 | 120 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 30 | 8.8 | 15 | 30 | 1 | U | U | 6/3/2020 | 6/4/2020 |
| R202306-13 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202306-13 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/3/2020 | 6/4/2020 |
| R202307-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.6 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.2 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.2 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202307-01 | DPT-016 (42) | Water | 6/2/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.2 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 98.6 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202307-02 | DPT-016 (33) | Water | 6/3/2020 | 6/3/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.7 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93.8 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82.2 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202308-01 | DPT-015 (50) | Water | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 1.4 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202307-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202307-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202307-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202307-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-01 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202307-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202307-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202307-02 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/3/2020 | 6/3/2020 |
| R202308-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-01 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.6 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.9 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.1 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202308-02 | DUP-05 | Water | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 1.5 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 5 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.4 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202308-03 | DPT-015 (31) | Water | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 240 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 680 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 1.8 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.8 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.3 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80.4 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 2.4 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 7.8 |
| R202308-04 | DPT-017 (42) | Water | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 6300 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 2200 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 5.4 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202308-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-02 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-03 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-03 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-03 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-03 | ug/L | 5 | 0.62 | 1.3 | 5 | 10 | D | | 6/4/2020 | 6/5/2020 |
| R202308-04 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-04 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-04 | ug/L | 500 | 110 | 250 | 500 | 1000 | D | | 6/4/2020 | 6/5/2020 |
| R202308-04 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-04 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-04 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-04 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-04 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-04 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-04 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-04 | ug/L | 500 | 62 | 130 | 500 | 1000 | D | | 6/4/2020 | 6/5/2020 |
| R202308-05 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-05 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-05 | ug/L | 500 | 110 | 250 | 500 | 1000 | D | | 6/4/2020 | 6/5/2020 |
| R202308-05 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.4 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.5 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 37 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 20 |
| R202308-05 | DPT-017 (32) | Water | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 23000 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.2 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 91.6 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 78.4 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 30 |
| R202309-01 | DPT-013 (1-2) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 81.7 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 23 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 23 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 23 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.2 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.4 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 23 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 93 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 23 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 23 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 56 |
| R202309-02 | DPT-013 (11-12) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 88.6 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202308-05 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-05 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-05 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-05 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-05 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202308-05 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202308-05 | ug/L | 500 | 62 | 130 | 500 | 1000 | D | | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 30 | 6.7 | 15 | 30 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 30 | 9.5 | 15 | 30 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 30 | 5.3 | 15 | 30 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | % Recovery | 1500 | 5.9 | 30 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | % Recovery | 0.59 | | 0.3 | 0.59 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-01 | % Recovery | 1500 | 6.5 | 30 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 120 | 8.3 | 15 | 120 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 30 | 8.6 | 15 | 30 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | ug/kg dry | 30 | 4.8 | 15 | 30 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 23 | 5.3 | 12 | 23 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 23 | 7.4 | 12 | 23 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 23 | 4.2 | 12 | 23 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | % Recovery | 1200 | 4.6 | 23 | 1200 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | % Recovery | 0.46 | | 0.23 | 0.46 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-02 | % Recovery | 1200 | 5.1 | 23 | 1200 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 23 | 5.4 | 12 | 23 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 93 | 6.5 | 12 | 93 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 23 | 8.6 | 12 | 23 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 23 | 6.8 | 12 | 23 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-02 | ug/kg dry | 23 | 3.8 | 12 | 23 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-03 | ug/kg dry | 30 | 6.8 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-03 | ug/kg dry | 30 | 9.5 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 77.1 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 76.8 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 67.2 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 41 |
| R202309-03 | DPT-013 (17-18) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 87.4 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 62 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.8 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 99.5 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.4 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 500 |
| R202309-04 | DPT-013 (20-21) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 79.4 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 87.1 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.5 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 78.5 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 26 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202309-03 | ug/kg dry | 30 | 5.3 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-03 | % Recovery | 1500 | 5.9 | 30 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-03 | % Recovery | 0.59 | | 0.3 | 0.59 | 1 | S | | 6/4/2020 | 6/5/2020 |
| R202309-03 | % Recovery | 1500 | 6.5 | 30 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-03 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-03 | ug/kg dry | 120 | 8.3 | 15 | 120 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-03 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-03 | ug/kg dry | 30 | 8.7 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-03 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | | J- | 6/4/2020 | 6/5/2020 |
| R202309-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 29 | 9.3 | 14 | 29 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | % Recovery | 1400 | 5.8 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-04 | % Recovery | 1400 | 6.4 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 29 | 6.7 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 120 | 8.1 | 14 | 120 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 29 | 8.5 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-04 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-05 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | ug/kg dry | 26 | 8.4 | 13 | 26 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | % Recovery | 1300 | 5.3 | 26 | 1300 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | % Recovery | 0.53 | | 0.26 | 0.53 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-05 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | ug/kg dry | 110 | 7.4 | 13 | 110 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | ug/kg dry | 26 | 9.8 | 13 | 26 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | ug/kg dry | 26 | 7.7 | 13 | 26 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-05 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/4/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202309-05 | DPT-012 (3-4) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 86.2 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 25 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 25 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 25 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 87.4 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.9 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 78.9 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 25 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 25 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 25 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 25 |
| R202309-06 | DPT-012 (11-12) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 85.6 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 80 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 82.3 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 70.4 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 32 |
| R202309-07 | DPT-012 (17-18) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 79.5 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 36 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 36 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 36 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.1 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.1 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82.7 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 36 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 140 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202309-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-06 | ug/kg dry | 25 | 5.8 | 13 | 25 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | ug/kg dry | 25 | 8.1 | 13 | 25 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | ug/kg dry | 25 | 4.6 | 13 | 25 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | % Recovery | 1300 | 5.1 | 25 | 1300 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | % Recovery | 0.51 | | 0.25 | 0.51 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-06 | % Recovery | 1300 | 5.6 | 25 | 1300 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | ug/kg dry | 25 | 5.9 | 13 | 25 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | ug/kg dry | 100 | 7.1 | 13 | 100 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | ug/kg dry | 25 | 9.4 | 13 | 25 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | ug/kg dry | 25 | 7.4 | 13 | 25 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | ug/kg dry | 25 | 4.1 | 13 | 25 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-07 | ug/kg dry | 32 | 7.3 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | ug/kg dry | 32 | 10 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | ug/kg dry | 32 | 5.8 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | % Recovery | 1600 | 6.4 | 32 | 1600 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-07 | % Recovery | 0.64 | | 0.32 | 0.64 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-07 | % Recovery | 1600 | 7.1 | 32 | 1600 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-07 | ug/kg dry | 32 | 7.4 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | ug/kg dry | 130 | 9 | 16 | 130 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | ug/kg dry | 32 | 12 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | ug/kg dry | 32 | 9.4 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | ug/kg dry | 32 | 5.3 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-08 | ug/kg dry | 36 | 8.1 | 18 | 36 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | ug/kg dry | 36 | 11 | 18 | 36 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | ug/kg dry | 36 | 6.4 | 18 | 36 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | % Recovery | 1800 | 7.1 | 36 | 1800 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | % Recovery | 0.71 | | 0.36 | 0.71 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-08 | % Recovery | 1800 | 7.8 | 36 | 1800 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | ug/kg dry | 36 | 8.3 | 18 | 36 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | ug/kg dry | 140 | 10 | 18 | 140 | 1 | U | U | 6/4/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 36 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 36 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 36 |
| R202309-08 | DPT-012 (7-8) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 87.2 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 84.4 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 87.2 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 74.5 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202309-09 | DPT-020 (11-12) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 87.4 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 80.6 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 84.2 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 69.1 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202309-10 | DPT-020 (18-19) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 89.6 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 79.5 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 80.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202309-08 | ug/kg dry | 36 | 13 | 18 | 36 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | ug/kg dry | 36 | 10 | 18 | 36 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | ug/kg dry | 36 | 5.9 | 18 | 36 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-09 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | ug/kg dry | 29 | 9.3 | 14 | 29 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | % Recovery | 1400 | 5.8 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-09 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-09 | % Recovery | 1400 | 6.4 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-09 | ug/kg dry | 29 | 6.7 | 14 | 29 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | ug/kg dry | 120 | 8.1 | 14 | 120 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | ug/kg dry | 29 | 8.5 | 14 | 29 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | ug/kg dry | 29 | 4.8 | 14 | 29 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-09 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-10 | ug/kg dry | 26 | 5.9 | 13 | 26 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | ug/kg dry | 26 | 8.2 | 13 | 26 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | ug/kg dry | 26 | 4.6 | 13 | 26 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | % Recovery | 1300 | 5.1 | 26 | 1300 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-10 | % Recovery | 0.51 | | 0.26 | 0.51 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-10 | % Recovery | 1300 | 5.7 | 26 | 1300 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-10 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | ug/kg dry | 100 | 7.2 | 13 | 100 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | ug/kg dry | 26 | 9.6 | 13 | 26 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | ug/kg dry | 26 | 7.5 | 13 | 26 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | ug/kg dry | 26 | 4.2 | 13 | 26 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-10 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-11 | ug/kg dry | 28 | 6.3 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | ug/kg dry | 28 | 8.8 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | % Recovery | 1400 | 5.5 | 28 | 1400 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-11 | % Recovery | 0.55 | | 0.28 | 0.55 | 1 | | | 6/4/2020 | 6/4/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 69.8 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202309-11 | DPT-020 (14-15) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 90.5 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 83.4 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 85.1 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 73.4 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 32 |
| R202309-12 | DUP-06 | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 90.5 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 78.6 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 80 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 71.1 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 32 |
| R202309-13 | DPT-020 (5-6) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 82.5 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202309-11 | % Recovery | 1400 | 6.1 | 28 | 1400 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-11 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | ug/kg dry | 110 | 7.7 | 14 | 110 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | ug/kg dry | 28 | 8 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | ug/kg dry | 28 | 4.5 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-11 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-12 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-12 | ug/kg dry | 28 | 9 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-12 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-12 | % Recovery | 1400 | 5.7 | 28 | 1400 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-12 | % Recovery | 0.57 | | 0.28 | 0.57 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-12 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-12 | ug/kg dry | 28 | 6.6 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-12 | ug/kg dry | 110 | 7.9 | 14 | 110 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-12 | ug/kg dry | 28 | 11 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-12 | ug/kg dry | 28 | 8.3 | 14 | 28 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-12 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | | J- | 6/4/2020 | 6/4/2020 |
| R202309-12 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-13 | ug/kg dry | 32 | 7.2 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | ug/kg dry | 32 | 10 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | ug/kg dry | 32 | 5.7 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | % Recovery | 1600 | 6.3 | 32 | 1600 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-13 | % Recovery | 0.63 | | 0.32 | 0.63 | 1 | | | 6/4/2020 | 6/4/2020 |
| R202309-13 | % Recovery | 1600 | 7 | 32 | 1600 | 1 | U | U | 6/4/2020 | 6/4/2020 |
| R202309-13 | ug/kg dry | 32 | 7.3 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | ug/kg dry | 130 | 8.9 | 16 | 130 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | ug/kg dry | 32 | 12 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | ug/kg dry | 32 | 9.2 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | ug/kg dry | 32 | 5.2 | 16 | 32 | 1 | U | UJ | 6/4/2020 | 6/4/2020 |
| R202309-13 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-14 | ug/kg dry | 29 | 6.5 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | ug/kg dry | 29 | 9.1 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.4 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.9 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.6 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202309-14 | DPT-021 (6-7) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 87.8 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.3 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.4 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202309-15 | DPT-021 (10-11) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 89.2 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 38 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 38 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 38 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.6 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.4 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.2 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 38 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 150 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 38 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 38 |
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 38 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202309-14 | ug/kg dry | 29 | 5.1 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | % Recovery | 1400 | 5.7 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | % Recovery | 0.57 | | 0.29 | 0.57 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-14 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | ug/kg dry | 29 | 8.3 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-14 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 29 | 6.5 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 29 | 9.1 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 29 | 5.1 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | % Recovery | 1400 | 5.7 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | % Recovery | 0.57 | | 0.29 | 0.57 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-15 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 29 | 8.3 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-15 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 38 | 8.6 | 19 | 38 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 38 | 12 | 19 | 38 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 38 | 6.8 | 19 | 38 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | % Recovery | 1900 | 7.5 | 38 | 1900 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | % Recovery | 0.75 | | 0.38 | 0.75 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-16 | % Recovery | 1900 | 8.3 | 38 | 1900 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 38 | 8.7 | 19 | 38 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 150 | 11 | 19 | 150 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 38 | 14 | 19 | 38 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 38 | 11 | 19 | 38 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-16 | ug/kg dry | 38 | 6.2 | 19 | 38 | 1 | U | U | 6/4/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202309-16 | DUP-07 | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 88.2 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 71.1 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 70.9 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 65.2 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 30 |
| R202309-17 | DPT-021 (19-20) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 88.2 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 37 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.8 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 98.6 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.9 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | 79-01-6 | Y | Trichloroethene | 120 |
| R202309-18 | DPT-021 (23-24) | Soil | 6/4/2020 | 6/4/2020 | NA | Y | % Solids | 81.4 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.5 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.4 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 79.2 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 100 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202309-16 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 30 | 9.6 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-17 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | S | | 6/4/2020 | 6/5/2020 |
| R202309-17 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 30 | 7 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 120 | 8.4 | 15 | 120 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 30 | 8.8 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | U | UJ | 6/4/2020 | 6/5/2020 |
| R202309-17 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 31 | 7 | 15 | 31 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 31 | 9.8 | 15 | 31 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 31 | 5.5 | 15 | 31 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | % Recovery | 1500 | 6.1 | 31 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | % Recovery | 0.61 | | 0.31 | 0.61 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-18 | % Recovery | 1500 | 6.8 | 31 | 1500 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 31 | 7.1 | 15 | 31 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 120 | 8.6 | 15 | 120 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 31 | 11 | 15 | 31 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 31 | 9 | 15 | 31 | 1 | U | U | 6/4/2020 | 6/5/2020 |
| R202309-18 | ug/kg dry | 31 | 5 | 15 | 31 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202309-18 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/4/2020 | 6/5/2020 |
| R202310-01 | ug/kg dry | 26 | 5.9 | 13 | 26 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | ug/kg dry | 26 | 8.3 | 13 | 26 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/5/2020 | 6/5/2020 |
| R202310-01 | % Recovery | 1300 | 5.7 | 26 | 1300 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | ug/kg dry | 100 | 7.3 | 13 | 100 | 1 | U | U | 6/5/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202310-01 | DPT-022 (5-6) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 86.6 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.5 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.5 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.9 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202310-02 | DPT-022 (14-15) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 86.9 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.5 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.3 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.3 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202310-03 | DPT-022 (8-9) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 88.8 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 25 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 25 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 25 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.2 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.9 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202310-01 | ug/kg dry | 26 | 9.7 | 13 | 26 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | ug/kg dry | 26 | 7.6 | 13 | 26 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 29 | 9.2 | 14 | 29 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | % Recovery | 1400 | 5.7 | 29 | 1400 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | % Recovery | 0.57 | | 0.29 | 0.57 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-02 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 29 | 6.7 | 14 | 29 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 29 | 8.4 | 14 | 29 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | U | U | 6/5/2020 | 6/7/2020 |
| R202310-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-03 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | ug/kg dry | 28 | 9 | 14 | 28 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/5/2020 | 6/5/2020 |
| R202310-03 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | ug/kg dry | 110 | 7.9 | 14 | 110 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-03 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | | | 6/5/2020 | 6/5/2020 |
| R202310-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-04 | ug/kg dry | 25 | 5.7 | 12 | 25 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | ug/kg dry | 25 | 8 | 12 | 25 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | ug/kg dry | 25 | 4.5 | 12 | 25 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | % Recovery | 1200 | 5 | 25 | 1200 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/5/2020 | 6/5/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 75.9 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 25 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 99 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 25 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 25 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 100 |
| R202310-04 | DPT-022 (20-21) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 86.7 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 35 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 35 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 35 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.9 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.1 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.6 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 35 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 140 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 35 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 35 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 35 |
| R202310-05 | DPT-027 (8-9) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 89.6 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 34 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 34 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 34 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 99.3 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 101 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.2 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 34 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 140 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 34 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 34 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 34 |
| R202310-06 | DPT-027 (11-12) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 93.6 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202310-04 | % Recovery | 1200 | 5.5 | 25 | 1200 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | ug/kg dry | 25 | 5.8 | 12 | 25 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | ug/kg dry | 99 | 7 | 12 | 99 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | ug/kg dry | 25 | 9.2 | 12 | 25 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | ug/kg dry | 25 | 7.3 | 12 | 25 | 1 | U | U | 6/5/2020 | 6/5/2020 |
| R202310-04 | ug/kg dry | 25 | 4.1 | 12 | 25 | 1 | | | 6/5/2020 | 6/5/2020 |
| R202310-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-05 | ug/kg dry | 35 | 7.9 | 17 | 35 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | ug/kg dry | 35 | 11 | 17 | 35 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | ug/kg dry | 35 | 6.2 | 17 | 35 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | % Recovery | 1700 | 6.9 | 35 | 1700 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | % Recovery | 0.69 | | 0.35 | 0.69 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202310-05 | % Recovery | 1700 | 7.6 | 35 | 1700 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | ug/kg dry | 35 | 8 | 17 | 35 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | ug/kg dry | 140 | 9.7 | 17 | 140 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | ug/kg dry | 35 | 13 | 17 | 35 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | ug/kg dry | 35 | 10 | 17 | 35 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | ug/kg dry | 35 | 5.7 | 17 | 35 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-06 | ug/kg dry | 34 | 7.8 | 17 | 34 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | ug/kg dry | 34 | 11 | 17 | 34 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | ug/kg dry | 34 | 6.1 | 17 | 34 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | % Recovery | 1700 | 6.8 | 34 | 1700 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | % Recovery | 0.68 | | 0.34 | 0.68 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202310-06 | % Recovery | 1700 | 7.5 | 34 | 1700 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | ug/kg dry | 34 | 7.9 | 17 | 34 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | ug/kg dry | 140 | 9.6 | 17 | 140 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | ug/kg dry | 34 | 13 | 17 | 34 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | ug/kg dry | 34 | 10 | 17 | 34 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | ug/kg dry | 34 | 5.6 | 17 | 34 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-07 | ug/kg dry | 27 | 6.2 | 14 | 27 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |
| R202310-07 | ug/kg dry | 27 | 8.7 | 14 | 27 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 84.3 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 86 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 73.6 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202310-07 | DPT-027 (2-3) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 82.9 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97.6 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 100 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 30 |
| R202310-08 | DPT-027 (5-6) | Soil | 6/5/2020 | 6/5/2020 | NA | Y | % Solids | 87.9 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 410 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.6 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.8 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.8 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202311-01 | DPT-021 (36) | Water | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 5200 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202310-07 | ug/kg dry | 27 | 4.9 | 14 | 27 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |
| R202310-07 | % Recovery | 1400 | 5.5 | 27 | 1400 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-07 | % Recovery | 0.55 | | 0.27 | 0.55 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202310-07 | % Recovery | 1400 | 6 | 27 | 1400 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-07 | ug/kg dry | 27 | 6.3 | 14 | 27 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |
| R202310-07 | ug/kg dry | 110 | 7.7 | 14 | 110 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |
| R202310-07 | ug/kg dry | 27 | 10 | 14 | 27 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |
| R202310-07 | ug/kg dry | 27 | 8 | 14 | 27 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |
| R202310-07 | ug/kg dry | 27 | 4.5 | 14 | 27 | 1 | U | UJ | 6/5/2020 | 6/6/2020 |
| R202310-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202310-08 | ug/kg dry | 30 | 6.8 | 15 | 30 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | ug/kg dry | 30 | 9.5 | 15 | 30 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202310-08 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | ug/kg dry | 120 | 8.4 | 15 | 120 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | ug/kg dry | 30 | 8.7 | 15 | 30 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | U | U | 6/5/2020 | 6/6/2020 |
| R202310-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/5/2020 | 6/7/2020 |
| R202311-01 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-01 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-01 | ug/L | 100 | 22 | 50 | 100 | 200 | D | | 6/5/2020 | 6/6/2020 |
| R202311-01 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202311-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202311-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202311-01 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-01 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-01 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-01 | ug/L | 100 | 12 | 25 | 100 | 200 | D | | 6/5/2020 | 6/6/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 570 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.3 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.5 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.1 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202311-02 | DPT-020 (44) | Water | 6/5/2020 | 6/5/2020 | 79-01-6 | Y | Trichloroethene | 7400 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 35 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 35 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 35 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.4 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.5 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82.2 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 35 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 140 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 35 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 35 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 35 |
| R202401-01 | DPT-026 (3-4) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 80.4 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.1 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.7 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80.3 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202311-02 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-02 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-02 | ug/L | 100 | 22 | 50 | 100 | 200 | D | | 6/5/2020 | 6/6/2020 |
| R202311-02 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202311-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202311-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/5/2020 | 6/6/2020 |
| R202311-02 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-02 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-02 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/5/2020 | 6/6/2020 |
| R202311-02 | ug/L | 100 | 12 | 25 | 100 | 200 | D | | 6/5/2020 | 6/6/2020 |
| R202401-01 | ug/kg dry | 35 | 7.9 | 17 | 35 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | ug/kg dry | 35 | 11 | 17 | 35 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | ug/kg dry | 35 | 6.2 | 17 | 35 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | % Recovery | 1700 | 6.9 | 35 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | % Recovery | 0.69 | | 0.35 | 0.69 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-01 | % Recovery | 1700 | 7.6 | 35 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | ug/kg dry | 35 | 8 | 17 | 35 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | ug/kg dry | 140 | 9.7 | 17 | 140 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | ug/kg dry | 35 | 13 | 17 | 35 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | ug/kg dry | 35 | 10 | 17 | 35 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | ug/kg dry | 35 | 5.7 | 17 | 35 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-02 | ug/kg dry | 27 | 6.1 | 13 | 27 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | ug/kg dry | 27 | 8.5 | 13 | 27 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | ug/kg dry | 27 | 4.8 | 13 | 27 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | % Recovery | 1300 | 5.3 | 27 | 1300 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | % Recovery | 0.53 | | 0.27 | 0.53 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-02 | % Recovery | 1300 | 5.9 | 27 | 1300 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | ug/kg dry | 27 | 6.2 | 13 | 27 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | ug/kg dry | 110 | 7.5 | 13 | 110 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | ug/kg dry | 27 | 9.9 | 13 | 27 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | ug/kg dry | 27 | 7.8 | 13 | 27 | 1 | U | U | 6/8/2020 | 6/8/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202401-02 | DPT-026 (16-17) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 84.9 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 33 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 33 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 33 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 82.3 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 85.6 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 73.7 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 33 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 33 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 33 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 33 |
| R202401-03 | DPT-026 (17-18) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 86.7 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 37 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.8 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93.5 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.1 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 69 |
| R202401-04 | DPT-026 (26-27) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 82.3 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.7 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.9 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82.3 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 26 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202401-02 | ug/kg dry | 27 | 4.4 | 13 | 27 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-03 | ug/kg dry | 33 | 7.6 | 17 | 33 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | ug/kg dry | 33 | 11 | 17 | 33 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | ug/kg dry | 33 | 6 | 17 | 33 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | % Recovery | 1700 | 6.7 | 33 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-03 | % Recovery | 0.67 | | 0.33 | 0.67 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-03 | % Recovery | 1700 | 7.3 | 33 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-03 | ug/kg dry | 33 | 7.7 | 17 | 33 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | ug/kg dry | 130 | 9.3 | 17 | 130 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | ug/kg dry | 33 | 12 | 17 | 33 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | ug/kg dry | 33 | 9.7 | 17 | 33 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | ug/kg dry | 33 | 5.5 | 17 | 33 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202401-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-04 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | ug/kg dry | 30 | 9.6 | 15 | 30 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-04 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-04 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | ug/kg dry | 30 | 7 | 15 | 30 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | ug/kg dry | 120 | 8.4 | 15 | 120 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | ug/kg dry | 30 | 8.8 | 15 | 30 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-04 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-05 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | ug/kg dry | 26 | 8.4 | 13 | 26 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-05 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/8/2020 | 6/8/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202401-05 | DPT-023 (2-3) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 92 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 122 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 112 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 102 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202401-06 | DPT-023 (4-5) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 90.4 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 33 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 33 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 33 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.7 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.8 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 76.9 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 33 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 33 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 33 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 33 |
| R202401-07 | DPT-023 (7-8) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 93.6 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202401-05 | ug/kg dry | 100 | 7.3 | 13 | 100 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | ug/kg dry | 26 | 9.8 | 13 | 26 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | ug/kg dry | 26 | 7.7 | 13 | 26 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 27 | 6.2 | 14 | 27 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 27 | 8.8 | 14 | 27 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 27 | 4.9 | 14 | 27 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | % Recovery | 1400 | 5.5 | 27 | 1400 | 1 | S, U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | % Recovery | 0.55 | | 0.27 | 0.55 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-06 | % Recovery | 1400 | 6 | 27 | 1400 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 27 | 6.4 | 14 | 27 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 110 | 7.7 | 14 | 110 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 27 | 10 | 14 | 27 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 27 | 8 | 14 | 27 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | ug/kg dry | 27 | 4.5 | 14 | 27 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202401-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-07 | ug/kg dry | 33 | 7.6 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | ug/kg dry | 33 | 11 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | ug/kg dry | 33 | 6 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | % Recovery | 1700 | 6.6 | 33 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | % Recovery | 0.66 | | 0.33 | 0.66 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-07 | % Recovery | 1700 | 7.3 | 33 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | ug/kg dry | 33 | 7.7 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | ug/kg dry | 130 | 9.3 | 17 | 130 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | ug/kg dry | 33 | 12 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | ug/kg dry | 33 | 9.7 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | ug/kg dry | 33 | 5.4 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202401-08 | ug/kg dry | 31 | 7.2 | 16 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | ug/kg dry | 31 | 10 | 16 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | ug/kg dry | 31 | 5.7 | 16 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | % Recovery | 1600 | 6.3 | 31 | 1600 | 1 | U | U | 6/8/2020 | 6/8/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.6 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.9 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 31 |
| R202401-08 | DPT-023 (9-10) | Soil | 6/7/2020 | 6/8/2020 | NA | Y | % Solids | 94.5 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 1500 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.3 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 78.7 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202402-01 | DPT-022 (36) | Water | 6/6/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 66000 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 340 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.1 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.8 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 77.8 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202402-02 | DPT-026 (45) | Water | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 40000 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 1000 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 1000 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 1400 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202401-08 | % Recovery | 0.63 | | 0.31 | 0.63 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202401-08 | % Recovery | 1600 | 6.9 | 31 | 1600 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | ug/kg dry | 31 | 7.3 | 16 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | ug/kg dry | 130 | 8.8 | 16 | 130 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | ug/kg dry | 31 | 12 | 16 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | ug/kg dry | 31 | 9.2 | 16 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | ug/kg dry | 31 | 5.2 | 16 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202401-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202402-01 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-01 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-01 | ug/L | 100 | 22 | 50 | 100 | 200 | D | | 6/8/2020 | 6/8/2020 |
| R202402-01 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-01 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-01 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-01 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-01 | ug/L | 1000 | 120 | 250 | 1000 | 2000 | D | | 6/8/2020 | 6/9/2020 |
| R202402-02 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-02 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-02 | ug/L | 100 | 22 | 50 | 100 | 200 | D | | 6/8/2020 | 6/8/2020 |
| R202402-02 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | S | | 6/8/2020 | 6/8/2020 |
| R202402-02 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-02 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-02 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-02 | ug/L | 1000 | 120 | 250 | 1000 | 2000 | D | | 6/8/2020 | 6/9/2020 |
| R202402-03 | ug/L | 1000 | 160 | 500 | 1000 | 2000 | U | U | 6/8/2020 | 6/9/2020 |
| R202402-03 | ug/L | 1000 | 160 | 500 | 1000 | 2000 | U | U | 6/8/2020 | 6/9/2020 |
| R202402-03 | ug/L | 1000 | 220 | 500 | 1000 | 2000 | D | | 6/8/2020 | 6/9/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 1000 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.1 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 100 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.4 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 1000 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 4000 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 1000 |
| R202402-03 | DPT-026 (36) | Water | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 14000 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 100 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.4 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.9 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 79.1 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202402-04 | DPT-023 (42) | Water | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 4400 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.1 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.9 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202402-05 | DPT-024 (44) | Water | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202402-03 | ug/L | 1000 | 220 | 500 | 1000 | 2000 | U | U | 6/8/2020 | 6/9/2020 |
| R202402-03 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202402-03 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202402-03 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202402-03 | ug/L | 1000 | 320 | 500 | 1000 | 2000 | U | U | 6/8/2020 | 6/9/2020 |
| R202402-03 | ug/L | 4000 | 280 | 500 | 4000 | 2000 | U | U | 6/8/2020 | 6/9/2020 |
| R202402-03 | ug/L | 1000 | 280 | 500 | 1000 | 2000 | U | U | 6/8/2020 | 6/9/2020 |
| R202402-03 | ug/L | 1000 | 120 | 250 | 1000 | 2000 | D | | 6/8/2020 | 6/9/2020 |
| R202402-04 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-04 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-04 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-04 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-04 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-04 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-04 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-04 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-04 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-04 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-04 | ug/L | 100 | 12 | 25 | 100 | 200 | D | | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-05 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-05 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-05 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202402-05 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-01 | ug/kg dry | 29 | 6.5 | 14 | 29 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | ug/kg dry | 29 | 9.2 | 14 | 29 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | U | 6/8/2020 | 6/9/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.7 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 101 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.8 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202403-01 | DPT-024 (9-10) | Soil | 6/8/2020 | 6/8/2020 | NA | Y | % Solids | 93.3 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 38 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 38 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 38 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.8 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 100 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.1 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 38 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 150 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 38 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 38 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 38 |
| R202403-02 | DUP-08 | Soil | 6/8/2020 | 6/8/2020 | NA | Y | % Solids | 92.7 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.8 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.3 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80.1 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202403-03 | DPT-024 (13-14) | Soil | 6/8/2020 | 6/8/2020 | NA | Y | % Solids | 92.7 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202403-01 | % Recovery | 1400 | 5.7 | 29 | 1400 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | % Recovery | 0.57 | | 0.29 | 0.57 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202403-01 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | ug/kg dry | 29 | 8.4 | 14 | 29 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 38 | 8.7 | 19 | 38 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 38 | 12 | 19 | 38 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 38 | 6.8 | 19 | 38 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | % Recovery | 1900 | 7.6 | 38 | 1900 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | % Recovery | 0.76 | | 0.38 | 0.76 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202403-02 | % Recovery | 1900 | 8.4 | 38 | 1900 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 38 | 8.8 | 19 | 38 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 150 | 11 | 19 | 150 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 38 | 14 | 19 | 38 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 38 | 11 | 19 | 38 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | ug/kg dry | 38 | 6.2 | 19 | 38 | 1 | U | U | 6/8/2020 | 6/9/2020 |
| R202403-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202403-03 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | ug/kg dry | 28 | 9.1 | 14 | 28 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | % Recovery | 1400 | 5.7 | 28 | 1400 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | % Recovery | 0.57 | | 0.28 | 0.57 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202403-03 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | ug/kg dry | 28 | 6.6 | 14 | 28 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | ug/kg dry | 110 | 7.9 | 14 | 110 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | ug/kg dry | 28 | 11 | 14 | 28 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | ug/kg dry | 28 | 8.3 | 14 | 28 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 33 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 33 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 33 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.2 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97.7 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 33 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 33 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 33 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 33 |
| R202403-04 | DPT-024 (17-18) | Soil | 6/8/2020 | 6/8/2020 | NA | Y | % Solids | 93.4 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.2 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.3 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 79.8 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 31 |
| R202403-05 | DPT-024 (21-22) | Soil | 6/8/2020 | 6/8/2020 | NA | Y | % Solids | 92.6 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 67.6 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 66.5 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 57.2 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202403-04 | ug/kg dry | 33 | 7.6 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | ug/kg dry | 33 | 11 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | ug/kg dry | 33 | 6 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | % Recovery | 1700 | 6.7 | 33 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | % Recovery | 0.67 | | 0.33 | 0.67 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202403-04 | % Recovery | 1700 | 7.4 | 33 | 1700 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | ug/kg dry | 33 | 7.8 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | ug/kg dry | 130 | 9.4 | 17 | 130 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | ug/kg dry | 33 | 12 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | ug/kg dry | 33 | 9.8 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | ug/kg dry | 33 | 5.5 | 17 | 33 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202403-05 | ug/kg dry | 31 | 7.1 | 15 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | ug/kg dry | 31 | 9.9 | 15 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | ug/kg dry | 31 | 5.6 | 15 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | % Recovery | 1500 | 6.2 | 31 | 1500 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | % Recovery | 0.62 | | 0.31 | 0.62 | 1 | | | 6/8/2020 | 6/8/2020 |
| R202403-05 | % Recovery | 1500 | 6.8 | 31 | 1500 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | ug/kg dry | 31 | 7.2 | 15 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | ug/kg dry | 120 | 8.7 | 15 | 120 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | ug/kg dry | 31 | 12 | 15 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | ug/kg dry | 31 | 9 | 15 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | ug/kg dry | 31 | 5.1 | 15 | 31 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202403-06 | ug/kg dry | 31 | 7.1 | 16 | 31 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202403-06 | ug/kg dry | 31 | 10 | 16 | 31 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202403-06 | ug/kg dry | 31 | 5.6 | 16 | 31 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202403-06 | % Recovery | 1600 | 6.3 | 31 | 1600 | 1 | U | U | 6/8/2020 | 6/8/2020 |
| R202403-06 | % Recovery | 0.63 | | 0.31 | 0.63 | 1 | S | | 6/8/2020 | 6/8/2020 |
| R202403-06 | % Recovery | 1600 | 6.9 | 31 | 1600 | 1 | S, U | U | 6/8/2020 | 6/8/2020 |
| R202403-06 | ug/kg dry | 31 | 7.3 | 16 | 31 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202403-06 | ug/kg dry | 130 | 8.8 | 16 | 130 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202403-06 | ug/kg dry | 31 | 12 | 16 | 31 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | 79-01-6 | Y | Trichloroethene | 31 |
| R202403-06 | DUP-09 | Soil | 6/8/2020 | 6/8/2020 | NA | Y | % Solids | 85.5 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.3 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.2 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80.7 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202404-01 | DPT-024 (33) | Water | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 1000 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 1000 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 1000 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 1000 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.2 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.1 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 79.6 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 1000 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 4000 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 1000 |
| R202404-02 | DPT-013 (33) | Water | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 57000 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 1000 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 1000 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 1000 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 1000 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.7 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.1 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 78.9 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 1000 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202403-06 | ug/kg dry | 31 | 9.2 | 16 | 31 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202403-06 | ug/kg dry | 31 | 5.1 | 16 | 31 | 1 | U | UJ | 6/8/2020 | 6/8/2020 |
| R202403-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/8/2020 | 6/9/2020 |
| R202404-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-01 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 1000 | 160 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 1000 | 160 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 1000 | 220 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 1000 | 220 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 1000 | 320 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 4000 | 280 | 500 | 4000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 1000 | 280 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-02 | ug/L | 1000 | 120 | 250 | 1000 | 2000 | D | | 6/9/2020 | 6/9/2020 |
| R202404-03 | ug/L | 1000 | 160 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-03 | ug/L | 1000 | 160 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-03 | ug/L | 1000 | 220 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-03 | ug/L | 1000 | 220 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-03 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-03 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-03 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-03 | ug/L | 1000 | 320 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 4000 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 1000 |
| R202404-03 | DPT-012 (33) | Water | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 21000 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 100 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.6 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 98.5 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82.7 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202404-04 | DPT-023 (33) | Water | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 2500 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.9 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.3 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.3 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202405-01 | DPT-025 (6-7) | Soil | 6/9/2020 | 6/9/2020 | NA | Y | % Solids | 91.2 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.7 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.3 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.2 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 31 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202404-03 | ug/L | 4000 | 280 | 500 | 4000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-03 | ug/L | 1000 | 280 | 500 | 1000 | 2000 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-03 | ug/L | 1000 | 120 | 250 | 1000 | 2000 | D | | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-04 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-04 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-04 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/9/2020 | 6/9/2020 |
| R202404-04 | ug/L | 100 | 12 | 25 | 100 | 200 | D | | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 26 | 8.5 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 26 | 4.8 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | % Recovery | 1300 | 5.3 | 26 | 1300 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | % Recovery | 0.53 | | 0.26 | 0.53 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202405-01 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 110 | 7.4 | 13 | 110 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 26 | 9.8 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 26 | 7.7 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/9/2020 | 6/10/2020 |
| R202405-02 | ug/kg dry | 31 | 7 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | ug/kg dry | 31 | 9.8 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | ug/kg dry | 31 | 5.5 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | % Recovery | 1500 | 6.1 | 31 | 1500 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | % Recovery | 0.61 | | 0.31 | 0.61 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202405-02 | % Recovery | 1500 | 6.7 | 31 | 1500 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | ug/kg dry | 31 | 7.1 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 31 |
| R202405-02 | DPT-025 (11-12) | Soil | 6/9/2020 | 6/9/2020 | NA | Y | % Solids | 89.8 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.2 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 91.7 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 78.7 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 38 |
| R202405-03 | DPT-025 (17-18) | Soil | 6/9/2020 | 6/9/2020 | NA | Y | % Solids | 84 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.2 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 97 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.2 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | 79-01-6 | Y | Trichloroethene | 52 |
| R202405-04 | DPT-025 (22-23) | Soil | 6/9/2020 | 6/9/2020 | NA | Y | % Solids | 85.1 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 5 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 5 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 8.1 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202405-02 | ug/kg dry | 120 | 8.6 | 15 | 120 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | ug/kg dry | 31 | 11 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | ug/kg dry | 31 | 8.9 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | ug/kg dry | 31 | 5 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/9/2020 | 6/10/2020 |
| R202405-03 | ug/kg dry | 31 | 7 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | ug/kg dry | 31 | 9.9 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | ug/kg dry | 31 | 5.6 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | % Recovery | 1500 | 6.2 | 31 | 1500 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | % Recovery | 0.62 | | 0.31 | 0.62 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202405-03 | % Recovery | 1500 | 6.8 | 31 | 1500 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | ug/kg dry | 31 | 7.2 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | ug/kg dry | 120 | 8.6 | 15 | 120 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | ug/kg dry | 31 | 11 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | ug/kg dry | 31 | 9 | 15 | 31 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-03 | ug/kg dry | 31 | 5.1 | 15 | 31 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202405-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/9/2020 | 6/10/2020 |
| R202405-04 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | ug/kg dry | 26 | 8.4 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | % Recovery | 1300 | 5.3 | 26 | 1300 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | % Recovery | 0.53 | | 0.26 | 0.53 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202405-04 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | ug/kg dry | 110 | 7.4 | 13 | 110 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | ug/kg dry | 26 | 9.8 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | ug/kg dry | 26 | 7.7 | 13 | 26 | 1 | U | U | 6/9/2020 | 6/9/2020 |
| R202405-04 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | | | 6/9/2020 | 6/9/2020 |
| R202405-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/9/2020 | 6/10/2020 |
| R202406-01 | ug/L | 5 | 0.78 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-01 | ug/L | 5 | 0.81 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-01 | ug/L | 5 | 1.1 | 2.5 | 5 | 10 | D | J | 6/10/2020 | 6/10/2020 |
| R202406-01 | ug/L | 5 | 1.1 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.8 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 91.8 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 74.9 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 5 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 20 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 5 |
| R202406-01 | DPT-025 (36) | Water | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 660 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 5 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 5 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 5 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.5 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94.4 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 75.2 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 5 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 20 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 5 |
| R202406-02 | DUP-10 | Water | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 1600 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 250 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 250 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 520 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 250 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.2 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.1 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 77 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 250 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 1000 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 250 |
| R202406-03 | DPT-028 (48) | Water | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 11000 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 23 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 23 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 23 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202406-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202406-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202406-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | S | | 6/10/2020 | 6/10/2020 |
| R202406-01 | ug/L | 5 | 1.6 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-01 | ug/L | 20 | 1.4 | 2.5 | 20 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-01 | ug/L | 5 | 1.4 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-01 | ug/L | 50 | 6.2 | 13 | 50 | 100 | M, D | J | 6/10/2020 | 6/11/2020 |
| R202406-02 | ug/L | 5 | 0.78 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-02 | ug/L | 5 | 0.81 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-02 | ug/L | 5 | 1.1 | 2.5 | 5 | 10 | D | J | 6/10/2020 | 6/10/2020 |
| R202406-02 | ug/L | 5 | 1.1 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202406-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202406-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | S | | 6/10/2020 | 6/10/2020 |
| R202406-02 | ug/L | 5 | 1.6 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-02 | ug/L | 20 | 1.4 | 2.5 | 20 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-02 | ug/L | 5 | 1.4 | 2.5 | 5 | 10 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-02 | ug/L | 50 | 6.2 | 13 | 50 | 100 | D | J | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 250 | 39 | 130 | 250 | 500 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 250 | 41 | 130 | 250 | 500 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 250 | 55 | 130 | 250 | 500 | D | | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 250 | 55 | 130 | 250 | 500 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-03 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202406-03 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202406-03 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | S | | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 250 | 80 | 130 | 250 | 500 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 1000 | 70 | 130 | 1000 | 500 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 250 | 70 | 130 | 250 | 500 | U | U | 6/10/2020 | 6/10/2020 |
| R202406-03 | ug/L | 250 | 31 | 63 | 250 | 500 | D | | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 23 | 5.2 | 11 | 23 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 23 | 7.3 | 11 | 23 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 23 | 4.1 | 11 | 23 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | % Recovery | 1100 | 4.6 | 23 | 1100 | 1 | U | U | 6/10/2020 | 6/10/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.5 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 74.3 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 23 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 92 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 23 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 23 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 410 |
| R202407-01 | DPT-028 (10-11) | Soil | 6/10/2020 | 6/10/2020 | NA | Y | % Solids | 89.7 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.7 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.4 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 76.9 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 220 |
| R202407-02 | DPT-028 (13-14) | Soil | 6/10/2020 | 6/10/2020 | NA | Y | % Solids | 90.1 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.6 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 76.4 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 1300 |
| R202407-03 | DPT-028 (16-17) | Soil | 6/10/2020 | 6/10/2020 | NA | Y | % Solids | 85.7 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 37 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202407-01 | % Recovery | 0.46 | | 0.23 | 0.46 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-01 | % Recovery | 1100 | 5 | 23 | 1100 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 23 | 5.3 | 11 | 23 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 92 | 6.4 | 11 | 92 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 23 | 8.5 | 11 | 23 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 23 | 6.7 | 11 | 23 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-01 | ug/kg dry | 23 | 3.8 | 11 | 23 | 1 | M | | 6/10/2020 | 6/10/2020 |
| R202407-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/10/2020 | 6/11/2020 |
| R202407-02 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | ug/kg dry | 29 | 9.2 | 14 | 29 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | % Recovery | 1400 | 5.8 | 29 | 1400 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-02 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | ug/kg dry | 29 | 6.7 | 14 | 29 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | ug/kg dry | 120 | 8.1 | 14 | 120 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | ug/kg dry | 29 | 8.4 | 14 | 29 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-02 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/10/2020 | 6/11/2020 |
| R202407-03 | ug/kg dry | 32 | 7.3 | 16 | 32 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | ug/kg dry | 32 | 10 | 16 | 32 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | ug/kg dry | 32 | 5.7 | 16 | 32 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | % Recovery | 1600 | 6.4 | 32 | 1600 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | % Recovery | 0.64 | | 0.32 | 0.64 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-03 | % Recovery | 1600 | 7 | 32 | 1600 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | ug/kg dry | 32 | 7.4 | 16 | 32 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | ug/kg dry | 130 | 8.9 | 16 | 130 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | ug/kg dry | 32 | 12 | 16 | 32 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | ug/kg dry | 32 | 9.3 | 16 | 32 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-03 | ug/kg dry | 32 | 5.2 | 16 | 32 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/10/2020 | 6/11/2020 |
| R202407-04 | ug/kg dry | 37 | 8.4 | 18 | 37 | 1 | U | U | 6/10/2020 | 6/10/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 37 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 37 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.4 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 75.7 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 37 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 150 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 37 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 37 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 790 |
| R202407-04 | DUP-011 | Soil | 6/10/2020 | 6/10/2020 | NA | Y | % Solids | 85.4 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 38 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 81.3 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 87.5 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 67.6 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | 79-01-6 | Y | Trichloroethene | 3300 |
| R202407-05 | DPT-028 (21-22) | Soil | 6/10/2020 | 6/10/2020 | NA | Y | % Solids | 88.1 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 88.9 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 84.3 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.4 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202407-04 | ug/kg dry | 37 | 12 | 18 | 37 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | ug/kg dry | 37 | 6.6 | 18 | 37 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | % Recovery | 1800 | 7.4 | 37 | 1800 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | % Recovery | 0.74 | | 0.37 | 0.74 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-04 | % Recovery | 1800 | 8.1 | 37 | 1800 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | ug/kg dry | 37 | 8.5 | 18 | 37 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | ug/kg dry | 150 | 10 | 18 | 150 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | ug/kg dry | 37 | 14 | 18 | 37 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | ug/kg dry | 37 | 11 | 18 | 37 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-04 | ug/kg dry | 37 | 6 | 18 | 37 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/10/2020 | 6/11/2020 |
| R202407-05 | ug/kg dry | 28 | 6.3 | 14 | 28 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-05 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/10/2020 | 6/10/2020 |
| R202407-05 | % Recovery | 1400 | 6.1 | 28 | 1400 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | ug/kg dry | 28 | 8.1 | 14 | 28 | 1 | U | U | 6/10/2020 | 6/10/2020 |
| R202407-05 | ug/kg dry | 110 | 18 | 56 | 110 | 4 | D | | 6/10/2020 | 6/10/2020 |
| R202407-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/10/2020 | 6/11/2020 |
| R202408-01 | ug/kg dry | 29 | 6.5 | 14 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | ug/kg dry | 29 | 9.1 | 14 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | ug/kg dry | 29 | 5.1 | 14 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | % Recovery | 1400 | 5.7 | 29 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | % Recovery | 0.57 | | 0.29 | 0.57 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-01 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | ug/kg dry | 29 | 8.3 | 14 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202408-01 | DPT-029 (7-8) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 93.6 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.7 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.6 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.4 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202408-02 | DUP-12 | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 94.1 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.5 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90.5 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 90.6 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202408-03 | DPT-029 (13-14) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 88.4 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.2 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93.3 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.4 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 28 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202408-01 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-02 | ug/kg dry | 29 | 6.7 | 15 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | ug/kg dry | 29 | 9.4 | 15 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | ug/kg dry | 29 | 5.3 | 15 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | % Recovery | 1500 | 5.9 | 29 | 1500 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | % Recovery | 0.59 | | 0.29 | 0.59 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-02 | % Recovery | 1500 | 6.5 | 29 | 1500 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | ug/kg dry | 29 | 6.8 | 15 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | ug/kg dry | 120 | 8.2 | 15 | 120 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | ug/kg dry | 29 | 11 | 15 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | ug/kg dry | 29 | 8.6 | 15 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | ug/kg dry | 29 | 4.8 | 15 | 29 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-03 | ug/kg dry | 28 | 6.3 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | % Recovery | 1400 | 5.5 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | % Recovery | 0.55 | | 0.28 | 0.55 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-03 | % Recovery | 1400 | 6.1 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | ug/kg dry | 28 | 8.1 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | ug/kg dry | 28 | 4.5 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-04 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | ug/kg dry | 28 | 9 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | % Recovery | 1400 | 5.7 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | % Recovery | 0.57 | | 0.28 | 0.57 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-04 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | ug/kg dry | 28 | 6.6 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202408-04 | DPT-029 (17-18) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 93.2 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.4 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 91.3 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.9 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 31 |
| R202408-05 | DPT-029 (21-22) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 92 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 95.2 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 91 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202408-06 | DUP-13 | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 94.7 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 160 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.8 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202408-04 | ug/kg dry | 110 | 7.9 | 14 | 110 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | ug/kg dry | 28 | 11 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | ug/kg dry | 28 | 8.3 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-05 | ug/kg dry | 31 | 7.2 | 16 | 31 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | ug/kg dry | 31 | 10 | 16 | 31 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | ug/kg dry | 31 | 5.7 | 16 | 31 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | % Recovery | 1600 | 6.3 | 31 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | % Recovery | 0.63 | | 0.31 | 0.63 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-05 | % Recovery | 1600 | 6.9 | 31 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | ug/kg dry | 31 | 7.3 | 16 | 31 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | ug/kg dry | 130 | 8.8 | 16 | 130 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | ug/kg dry | 31 | 12 | 16 | 31 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | ug/kg dry | 31 | 9.2 | 16 | 31 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | ug/kg dry | 31 | 5.2 | 16 | 31 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-06 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | ug/kg dry | 28 | 9 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-06 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | ug/kg dry | 110 | 7.9 | 14 | 110 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-07 | ug/kg dry | 28 | 6.3 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-07 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-07 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-07 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93.6 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 93.6 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 16000 |
| R202408-07 | DPT-030 (10-11) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 86.2 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 170 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 88.8 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 86.2 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.6 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 17000 |
| R202408-08 | DUP-14 | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 86.5 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 74 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 87.5 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.9 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 7900 |
| R202408-09 | DPT-030 (15-16) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 79.5 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202408-07 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-07 | % Recovery | 1400 | 6.1 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-07 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-07 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-07 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-07 | ug/kg dry | 28 | 8.1 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-07 | ug/kg dry | 280 | 46 | 140 | 280 | 10 | D | | 6/11/2020 | 6/12/2020 |
| R202408-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-08 | ug/kg dry | 28 | 6.3 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | ug/kg dry | 28 | 8.8 | 14 | 28 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-08 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | % Recovery | 1400 | 5.5 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | % Recovery | 0.55 | | 0.28 | 0.55 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-08 | % Recovery | 1400 | 6.1 | 28 | 1400 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | ug/kg dry | 110 | 7.7 | 14 | 110 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | ug/kg dry | 28 | 8.1 | 14 | 28 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-08 | ug/kg dry | 280 | 45 | 140 | 280 | 10 | D | | 6/11/2020 | 6/12/2020 |
| R202408-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-09 | ug/kg dry | 32 | 7.2 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | ug/kg dry | 32 | 10 | 16 | 32 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-09 | ug/kg dry | 32 | 5.7 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | % Recovery | 1600 | 6.3 | 32 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | % Recovery | 0.63 | | 0.32 | 0.63 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-09 | % Recovery | 1600 | 7 | 32 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | ug/kg dry | 32 | 7.4 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | ug/kg dry | 130 | 8.9 | 16 | 130 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | ug/kg dry | 32 | 12 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | ug/kg dry | 32 | 9.3 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-09 | ug/kg dry | 160 | 26 | 79 | 160 | 5 | D | | 6/11/2020 | 6/12/2020 |
| R202408-09 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-10 | ug/kg dry | 32 | 7.2 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.9 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.2 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 32 |
| R202408-10 | DPT-030 (17-18) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 91.2 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.1 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.6 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 30 |
| R202408-11 | DPT-030 (19-20) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 90.8 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 84.4 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 79.9 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.2 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202408-10 | ug/kg dry | 32 | 10 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | ug/kg dry | 32 | 5.7 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | % Recovery | 1600 | 6.3 | 32 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | % Recovery | 0.63 | | 0.32 | 0.63 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-10 | % Recovery | 1600 | 6.9 | 32 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | ug/kg dry | 32 | 7.3 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | ug/kg dry | 130 | 8.8 | 16 | 130 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | ug/kg dry | 32 | 12 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | ug/kg dry | 32 | 9.2 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | ug/kg dry | 32 | 5.2 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-10 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-11 | ug/kg dry | 30 | 6.8 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | ug/kg dry | 30 | 9.6 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-11 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | ug/kg dry | 30 | 7 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | ug/kg dry | 120 | 8.4 | 15 | 120 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | ug/kg dry | 30 | 8.7 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-11 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-12 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | ug/kg dry | 30 | 9.7 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | % Recovery | 1500 | 6.1 | 30 | 1500 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | % Recovery | 0.61 | | 0.3 | 0.61 | 1 | S | | 6/11/2020 | 6/11/2020 |
| R202408-12 | % Recovery | 1500 | 6.7 | 30 | 1500 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | ug/kg dry | 30 | 7 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | ug/kg dry | 120 | 8.5 | 15 | 120 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-12 | ug/kg dry | 30 | 8.8 | 15 | 30 | 1 | U | U | 6/11/2020 | 6/11/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 100 |
| R202408-12 | DPT-027 (17-18) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 80.2 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.9 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90.2 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 90.7 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 32 |
| R202408-13 | DPT-027 (22-23) | Soil | 6/11/2020 | 6/11/2020 | NA | Y | % Solids | 93.4 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.3 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 87 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80.5 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202409-01 | EB-01 | Water | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.4 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.5 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 93.9 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202408-12 | ug/kg dry | 30 | 5 | 15 | 30 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-12 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202408-13 | ug/kg dry | 32 | 7.3 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | ug/kg dry | 32 | 10 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | ug/kg dry | 32 | 5.7 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | % Recovery | 1600 | 6.4 | 32 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | % Recovery | 0.64 | | 0.32 | 0.64 | 1 | | | 6/11/2020 | 6/11/2020 |
| R202408-13 | % Recovery | 1600 | 7 | 32 | 1600 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | ug/kg dry | 32 | 7.4 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | ug/kg dry | 130 | 8.9 | 16 | 130 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | ug/kg dry | 32 | 12 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | ug/kg dry | 32 | 9.3 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | ug/kg dry | 32 | 5.2 | 16 | 32 | 1 | U | U | 6/11/2020 | 6/11/2020 |
| R202408-13 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/11/2020 | 6/12/2020 |
| R202409-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-01 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-02 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-02 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-02 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-02 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-02 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202409-02 | EB-02 | Water | 6/11/2020 | 6/11/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.2 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 98.3 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 90.8 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202409-03 | EB-03 | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.1 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 91.7 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202409-04 | EB-04 | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 10 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 10 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 700 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 10 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.3 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.5 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.4 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 10 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202409-02 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-02 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-02 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-03 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-03 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-03 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-04 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-04 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-04 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-05 | ug/L | 10 | 1.6 | 5 | 10 | 20 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-05 | ug/L | 10 | 1.6 | 5 | 10 | 20 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-05 | ug/L | 10 | 2.2 | 5 | 10 | 20 | D | | 6/12/2020 | 6/12/2020 |
| R202409-05 | ug/L | 10 | 2.2 | 5 | 10 | 20 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-05 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-05 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-05 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-05 | ug/L | 10 | 3.2 | 5 | 10 | 20 | U | U | 6/12/2020 | 6/12/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 40 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 10 |
| R202409-05 | DPT-029 (45) | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 11000 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 250 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 250 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 730 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 250 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.1 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90.9 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.4 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 250 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 1000 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 250 |
| R202409-06 | DUP-15 | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 13000 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 250 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 250 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 1200 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 250 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.4 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 86 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.2 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 250 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 1000 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 250 |
| R202409-07 | DPT-029 (34) | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 22000 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 250 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 250 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 1200 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 250 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.6 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.6 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.3 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 250 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202409-05 | ug/L | 40 | 2.8 | 5 | 40 | 20 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-05 | ug/L | 10 | 2.8 | 5 | 10 | 20 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-05 | ug/L | 250 | 31 | 63 | 250 | 500 | D | | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 250 | 39 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 250 | 41 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 250 | 55 | 130 | 250 | 500 | D | | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 250 | 55 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-06 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-06 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-06 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 250 | 80 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 1000 | 70 | 130 | 1000 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 250 | 70 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-06 | ug/L | 250 | 31 | 63 | 250 | 500 | D | | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 250 | 39 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 250 | 41 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 250 | 55 | 130 | 250 | 500 | D | | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 250 | 55 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-07 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-07 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-07 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 250 | 80 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 1000 | 70 | 130 | 1000 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 250 | 70 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-07 | ug/L | 250 | 31 | 63 | 250 | 500 | D | | 6/12/2020 | 6/12/2020 |
| R202409-08 | ug/L | 250 | 39 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-08 | ug/L | 250 | 41 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-08 | ug/L | 250 | 55 | 130 | 250 | 500 | D | | 6/12/2020 | 6/12/2020 |
| R202409-08 | ug/L | 250 | 55 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-08 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-08 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-08 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202409-08 | ug/L | 250 | 80 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 1000 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 250 |
| R202409-08 | DUP-16 | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 21000 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 310 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97.6 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 90 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202409-09 | DPT-031 (33) | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 41000 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 100 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 100 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 100 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 100 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.9 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90.9 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 92 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 100 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 400 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 100 |
| R202409-10 | DPT-027 (33) | Water | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 3500 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.3 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 85 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 80.9 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 110 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202409-08 | ug/L | 1000 | 70 | 130 | 1000 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-08 | ug/L | 250 | 70 | 130 | 250 | 500 | U | U | 6/12/2020 | 6/12/2020 |
| R202409-08 | ug/L | 250 | 31 | 63 | 250 | 500 | D | | 6/12/2020 | 6/12/2020 |
| R202409-09 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-09 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-09 | ug/L | 100 | 22 | 50 | 100 | 200 | D | | 6/12/2020 | 6/13/2020 |
| R202409-09 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-09 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-09 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-09 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-09 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-09 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-09 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-09 | ug/L | 1000 | 120 | 250 | 1000 | 2000 | D | | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 100 | 16 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 100 | 22 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-10 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-10 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-10 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 100 | 32 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 400 | 28 | 50 | 400 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 100 | 28 | 50 | 100 | 200 | U | U | 6/12/2020 | 6/13/2020 |
| R202409-10 | ug/L | 100 | 12 | 25 | 100 | 200 | D | | 6/12/2020 | 6/13/2020 |
| R202410-01 | ug/kg dry | 27 | 6.2 | 14 | 27 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | ug/kg dry | 27 | 8.7 | 14 | 27 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | ug/kg dry | 27 | 4.9 | 14 | 27 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | % Recovery | 1400 | 5.4 | 27 | 1400 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | % Recovery | 0.54 | | 0.27 | 0.54 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202410-01 | % Recovery | 1400 | 6 | 27 | 1400 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | ug/kg dry | 27 | 6.3 | 14 | 27 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | ug/kg dry | 110 | 7.6 | 14 | 110 | 1 | U | U | 6/12/2020 | 6/12/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202410-01 | DPT-031 (12-13) | Soil | 6/12/2020 | 6/12/2020 | NA | Y | % Solids | 89 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 81.9 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 80.7 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 74.4 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 65 |
| R202410-02 | DPT-031 (3-4) | Soil | 6/12/2020 | 6/12/2020 | NA | Y | % Solids | 84.5 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 91.4 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.5 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 560 |
| R202410-03 | DPT-031 (16-17) | Soil | 6/12/2020 | 6/12/2020 | NA | Y | % Solids | 86.2 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 34 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.9 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 92.9 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202410-01 | ug/kg dry | 27 | 10 | 14 | 27 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | ug/kg dry | 27 | 7.9 | 14 | 27 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-01 | ug/kg dry | 27 | 4.4 | 14 | 27 | 1 | M, X, U | J | 6/12/2020 | 6/12/2020 |
| R202410-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202410-02 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202410-02 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-02 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202410-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202410-03 | ug/kg dry | 26 | 5.9 | 13 | 26 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | ug/kg dry | 26 | 8.3 | 13 | 26 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202410-03 | % Recovery | 1300 | 5.7 | 26 | 1300 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | ug/kg dry | 100 | 7.3 | 13 | 100 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | ug/kg dry | 26 | 9.6 | 13 | 26 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | ug/kg dry | 26 | 7.6 | 13 | 26 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-03 | ug/kg dry | 26 | 4.2 | 13 | 26 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202410-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202410-04 | ug/kg dry | 29 | 6.7 | 15 | 29 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | ug/kg dry | 29 | 9.4 | 15 | 29 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202410-04 | ug/kg dry | 29 | 5.3 | 15 | 29 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | % Recovery | 1500 | 5.9 | 29 | 1500 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | % Recovery | 0.59 | | 0.29 | 0.59 | 1 | | | 6/12/2020 | 6/12/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.8 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | 79-01-6 | Y | Trichloroethene | 2000 |
| R202410-04 | DPT-031 (21-22) | Soil | 6/12/2020 | 6/12/2020 | NA | Y | % Solids | 83.5 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.1 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.9 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202411-01 | DPT-032 (12-13) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 93.6 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.2 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 86 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.3 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202411-02 | DPT-032 (15-16) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 92.9 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202410-04 | % Recovery | 1500 | 6.5 | 29 | 1500 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | ug/kg dry | 29 | 6.8 | 15 | 29 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | ug/kg dry | 120 | 8.3 | 15 | 120 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | ug/kg dry | 29 | 11 | 15 | 29 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | ug/kg dry | 29 | 8.6 | 15 | 29 | 1 | U | U | 6/12/2020 | 6/12/2020 |
| R202410-04 | ug/kg dry | 29 | 4.8 | 15 | 29 | 1 | | | 6/12/2020 | 6/12/2020 |
| R202410-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/12/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 26 | 8.4 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-01 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 100 | 7.3 | 13 | 100 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 26 | 9.7 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 26 | 7.6 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202411-02 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | ug/kg dry | 28 | 9 | 14 | 28 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-02 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202411-03 | ug/kg dry | 26 | 5.9 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | ug/kg dry | 26 | 8.2 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.2 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 86.2 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.4 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202411-03 | DPT-032 (19-20) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 87.9 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 32 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 32 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 32 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.7 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.7 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.7 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 32 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 32 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 32 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 32 |
| R202411-04 | DPT-032 (21-22) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 89.3 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 101 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.3 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 93.8 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 29 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202411-03 | ug/kg dry | 26 | 4.6 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | % Recovery | 1300 | 5.1 | 26 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | % Recovery | 0.51 | | 0.26 | 0.51 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-03 | % Recovery | 1300 | 5.7 | 26 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | ug/kg dry | 100 | 7.2 | 13 | 100 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | ug/kg dry | 26 | 9.6 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | ug/kg dry | 26 | 7.5 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | ug/kg dry | 26 | 4.2 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202411-04 | ug/kg dry | 32 | 7.3 | 16 | 32 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | ug/kg dry | 32 | 10 | 16 | 32 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | ug/kg dry | 32 | 5.8 | 16 | 32 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | % Recovery | 1600 | 6.4 | 32 | 1600 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | % Recovery | 0.64 | | 0.32 | 0.64 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-04 | % Recovery | 1600 | 7 | 32 | 1600 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | ug/kg dry | 32 | 7.4 | 16 | 32 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | ug/kg dry | 130 | 9 | 16 | 130 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | ug/kg dry | 32 | 12 | 16 | 32 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | ug/kg dry | 32 | 9.4 | 16 | 32 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | ug/kg dry | 32 | 5.3 | 16 | 32 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202411-05 | ug/kg dry | 29 | 6.6 | 15 | 29 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | ug/kg dry | 29 | 9.3 | 15 | 29 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | ug/kg dry | 29 | 5.2 | 15 | 29 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | % Recovery | 1500 | 5.8 | 29 | 1500 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-05 | % Recovery | 1500 | 6.4 | 29 | 1500 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | ug/kg dry | 29 | 6.7 | 15 | 29 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | ug/kg dry | 120 | 8.1 | 15 | 120 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | ug/kg dry | 29 | 11 | 15 | 29 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | ug/kg dry | 29 | 8.5 | 15 | 29 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-05 | ug/kg dry | 29 | 4.8 | 15 | 29 | 1 | U | U | 6/13/2020 | 6/13/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202411-05 | DPT-033 (8-9) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 92.7 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 25 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 25 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 25 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.3 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.2 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.1 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 25 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 25 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 25 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 25 |
| R202411-06 | DPT-033 (12-13) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 91.5 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90.7 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 520 |
| R202411-07 | DPT-033 (19-20) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 88.1 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 39 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 90 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.2 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.3 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 100 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202411-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202411-06 | ug/kg dry | 25 | 5.7 | 13 | 25 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | ug/kg dry | 25 | 8.1 | 13 | 25 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | ug/kg dry | 25 | 4.5 | 13 | 25 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | % Recovery | 1300 | 5 | 25 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-06 | % Recovery | 1300 | 5.5 | 25 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | ug/kg dry | 25 | 5.8 | 13 | 25 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | ug/kg dry | 100 | 7 | 13 | 100 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | ug/kg dry | 25 | 9.4 | 13 | 25 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | ug/kg dry | 25 | 7.3 | 13 | 25 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | ug/kg dry | 25 | 4.1 | 13 | 25 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202411-07 | ug/kg dry | 27 | 6.2 | 14 | 27 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | ug/kg dry | 27 | 8.7 | 14 | 27 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | ug/kg dry | 27 | 4.9 | 14 | 27 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | % Recovery | 1400 | 5.4 | 27 | 1400 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | % Recovery | 0.54 | | 0.27 | 0.54 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-07 | % Recovery | 1400 | 6 | 27 | 1400 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | ug/kg dry | 27 | 6.3 | 14 | 27 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | ug/kg dry | 110 | 7.6 | 14 | 110 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | ug/kg dry | 27 | 10 | 14 | 27 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | ug/kg dry | 27 | 7.9 | 14 | 27 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-07 | ug/kg dry | 27 | 4.5 | 14 | 27 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202411-08 | ug/kg dry | 26 | 5.8 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-08 | ug/kg dry | 26 | 8.2 | 13 | 26 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-08 | ug/kg dry | 26 | 4.6 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-08 | % Recovery | 1300 | 5.1 | 26 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-08 | % Recovery | 0.51 | | 0.26 | 0.51 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-08 | % Recovery | 1300 | 5.6 | 26 | 1300 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-08 | ug/kg dry | 26 | 5.9 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-08 | ug/kg dry | 100 | 7.2 | 13 | 100 | 1 | U | U | 6/13/2020 | 6/13/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 1700 |
| R202411-08 | DPT-033 (22-23) | Soil | 6/13/2020 | 6/13/2020 | NA | Y | % Solids | 87.9 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.4 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93.8 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.2 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202412-01 | DPT-032 (35) | Water | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 6.6 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 2.5 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 127-18-4 | Y | Tetrachloroethene | 2.5 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 7.4 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 2.5 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.7 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.5 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.4 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 75-01-4 | Y | Vinyl chloride | 2.5 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 75-09-2 | Y | Methylene chloride | 10 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 2.5 |
| R202412-02 | DPT-032 (49.5) | Water | 6/13/2020 | 6/13/2020 | 79-01-6 | Y | Trichloroethene | 61 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 500 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 500 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 500 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 500 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.8 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 85.2 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.7 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202411-08 | ug/kg dry | 26 | 9.5 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-08 | ug/kg dry | 26 | 7.5 | 13 | 26 | 1 | U | U | 6/13/2020 | 6/13/2020 |
| R202411-08 | ug/kg dry | 26 | 4.2 | 13 | 26 | 1 | | | 6/13/2020 | 6/13/2020 |
| R202411-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/13/2020 | 6/14/2020 |
| R202412-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202412-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202412-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202412-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-01 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 2.5 | 0.39 | 1.3 | 2.5 | 5 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 2.5 | 0.41 | 1.3 | 2.5 | 5 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 2.5 | 0.55 | 1.3 | 2.5 | 5 | D | | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 2.5 | 0.55 | 1.3 | 2.5 | 5 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202412-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202412-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 2.5 | 0.8 | 1.3 | 2.5 | 5 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 10 | 0.7 | 1.3 | 10 | 5 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 2.5 | 0.7 | 1.3 | 2.5 | 5 | U | U | 6/14/2020 | 6/14/2020 |
| R202412-02 | ug/L | 2.5 | 0.31 | 0.63 | 2.5 | 5 | D | | 6/14/2020 | 6/14/2020 |
| R202501-01 | ug/L | 500 | 78 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-01 | ug/L | 500 | 81 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-01 | ug/L | 500 | 110 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-01 | ug/L | 500 | 110 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 500 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 2000 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 500 |
| R202501-01 | DPT-033 (49) | Water | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 3300 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 500 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 500 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 500 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 500 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.7 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90.5 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.6 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 500 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 2000 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 500 |
| R202501-02 | DPT-033 (33) | Water | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 5700 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 0.5 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.5 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.5 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 86.4 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.7 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 0.5 |
| R202501-03 | DPT-034 (33) | Water | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 0.5 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 25 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 25 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 25 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.9 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 85.8 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.1 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 25 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202501-01 | ug/L | 500 | 160 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-01 | ug/L | 2000 | 140 | 250 | 2000 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-01 | ug/L | 500 | 140 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-01 | ug/L | 500 | 62 | 130 | 500 | 1000 | D | | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 500 | 78 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 500 | 81 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 500 | 110 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 500 | 110 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 500 | 160 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 2000 | 140 | 250 | 2000 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 500 | 140 | 250 | 500 | 1000 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-02 | ug/L | 500 | 62 | 130 | 500 | 1000 | D | | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-03 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-03 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-03 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202501-03 | ug/L | 0.5 | 0.062 | 0.13 | 0.5 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | ug/kg dry | 25 | 5.8 | 13 | 25 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | ug/kg dry | 25 | 8.1 | 13 | 25 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | ug/kg dry | 25 | 4.6 | 13 | 25 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | % Recovery | 1300 | 5.1 | 25 | 1300 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | % Recovery | 0.51 | | 0.25 | 0.51 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-01 | % Recovery | 1300 | 5.6 | 25 | 1300 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | ug/kg dry | 25 | 5.9 | 13 | 25 | 1 | U | U | 6/14/2020 | 6/14/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 25 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 25 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 25 |
| R202502-01 | DPT-034 (8-9) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 86.9 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 34 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 34 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 34 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 96.3 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 93.7 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 91.2 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 34 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 140 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 34 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 34 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 34 |
| R202502-02 | DPT-034 (15-16) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 86.4 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.5 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90.1 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 84.5 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202502-03 | DPT-034 (18-19) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 84 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 30 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 30 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 30 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202502-01 | ug/kg dry | 100 | 7.1 | 13 | 100 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | ug/kg dry | 25 | 9.4 | 13 | 25 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | ug/kg dry | 25 | 7.4 | 13 | 25 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | ug/kg dry | 25 | 4.2 | 13 | 25 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202502-02 | ug/kg dry | 34 | 7.8 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | ug/kg dry | 34 | 11 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | ug/kg dry | 34 | 6.1 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | % Recovery | 1700 | 6.8 | 34 | 1700 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | % Recovery | 0.68 | | 0.34 | 0.68 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-02 | % Recovery | 1700 | 7.5 | 34 | 1700 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | ug/kg dry | 34 | 7.9 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | ug/kg dry | 140 | 9.6 | 17 | 140 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | ug/kg dry | 34 | 13 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | ug/kg dry | 34 | 10 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | ug/kg dry | 34 | 5.6 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202502-03 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | ug/kg dry | 28 | 9.1 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | % Recovery | 1400 | 5.7 | 28 | 1400 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | % Recovery | 0.57 | | 0.28 | 0.57 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-03 | % Recovery | 1400 | 6.3 | 28 | 1400 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | ug/kg dry | 28 | 6.6 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | ug/kg dry | 110 | 8 | 14 | 110 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | ug/kg dry | 28 | 11 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | ug/kg dry | 28 | 8.3 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | ug/kg dry | 28 | 4.7 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202502-04 | ug/kg dry | 30 | 6.9 | 15 | 30 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | ug/kg dry | 30 | 9.6 | 15 | 30 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | ug/kg dry | 30 | 5.4 | 15 | 30 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | % Recovery | 1500 | 6 | 30 | 1500 | 1 | U | U | 6/14/2020 | 6/14/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 86.8 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 82.4 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 30 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 30 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 30 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 30 |
| R202502-04 | DPT-034 (22-23) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 87.7 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97.3 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 91.7 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 91.7 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202502-05 | DPT-035 (10-11) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 84.8 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 34 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 34 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 34 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.9 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.1 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.6 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 34 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 140 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 34 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 34 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 34 |
| R202502-06 | DPT-035 (15-16) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 89.6 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202502-04 | % Recovery | 0.6 | | 0.3 | 0.6 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-04 | % Recovery | 1500 | 6.6 | 30 | 1500 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | ug/kg dry | 30 | 7 | 15 | 30 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | ug/kg dry | 120 | 8.4 | 15 | 120 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | ug/kg dry | 30 | 11 | 15 | 30 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | ug/kg dry | 30 | 8.8 | 15 | 30 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | ug/kg dry | 30 | 4.9 | 15 | 30 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202502-05 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-05 | % Recovery | 1400 | 6.1 | 28 | 1400 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | ug/kg dry | 28 | 8.1 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202502-06 | ug/kg dry | 34 | 7.8 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | ug/kg dry | 34 | 11 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | ug/kg dry | 34 | 6.1 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | % Recovery | 1700 | 6.8 | 34 | 1700 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | % Recovery | 0.68 | | 0.34 | 0.68 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-06 | % Recovery | 1700 | 7.5 | 34 | 1700 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | ug/kg dry | 34 | 7.9 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | ug/kg dry | 140 | 9.5 | 17 | 140 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | ug/kg dry | 34 | 13 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | ug/kg dry | 34 | 10 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | ug/kg dry | 34 | 5.6 | 17 | 34 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202502-07 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.1 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 91.7 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 89.5 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202502-07 | DPT-035 (18-19) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 88 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 127-18-4 | Y | Tetrachloroethene | 33 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 33 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 33 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 88.8 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.9 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.1 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 75-01-4 | Y | Vinyl chloride | 33 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 75-09-2 | Y | Methylene chloride | 130 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 33 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 33 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | 79-01-6 | Y | Trichloroethene | 33 |
| R202502-08 | DPT-035 (21-22) | Soil | 6/14/2020 | 6/14/2020 | NA | Y | % Solids | 89.1 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 0.5 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 0.5 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 78 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 0.94 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.6 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.1 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 0.5 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 2 |
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 2.2 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202502-07 | ug/kg dry | 28 | 9 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | ug/kg dry | 28 | 5.1 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-07 | % Recovery | 1400 | 6.2 | 28 | 1400 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | ug/kg dry | 110 | 7.9 | 14 | 110 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202502-08 | ug/kg dry | 33 | 7.4 | 16 | 33 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | ug/kg dry | 33 | 10 | 16 | 33 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | ug/kg dry | 33 | 5.9 | 16 | 33 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | % Recovery | 1600 | 6.5 | 33 | 1600 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | % Recovery | 0.65 | | 0.33 | 0.65 | 1 | | | 6/14/2020 | 6/14/2020 |
| R202502-08 | % Recovery | 1600 | 7.2 | 33 | 1600 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | ug/kg dry | 33 | 7.5 | 16 | 33 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | ug/kg dry | 130 | 9.1 | 16 | 130 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | ug/kg dry | 33 | 12 | 16 | 33 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | ug/kg dry | 33 | 9.5 | 16 | 33 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | ug/kg dry | 33 | 5.3 | 16 | 33 | 1 | U | U | 6/14/2020 | 6/14/2020 |
| R202502-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/14/2020 | 6/15/2020 |
| R202503-01 | ug/L | 0.5 | 0.078 | 0.25 | 0.5 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202503-01 | ug/L | 0.5 | 0.081 | 0.25 | 0.5 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202503-01 | ug/L | 50 | 11 | 25 | 50 | 100 | D | | 6/15/2020 | 6/15/2020 |
| R202503-01 | ug/L | 0.5 | 0.11 | 0.25 | 0.5 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202503-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202503-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202503-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202503-01 | ug/L | 0.5 | 0.16 | 0.25 | 0.5 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202503-01 | ug/L | 2 | 0.14 | 0.25 | 2 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202503-01 | ug/L | 0.5 | 0.14 | 0.25 | 0.5 | 1 | | | 6/15/2020 | 6/15/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202503-01 | DPT-035 (49.5) | Water | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 2400 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 28 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 28 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 28 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 93.6 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 87.9 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.1 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 28 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 28 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 28 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 28 |
| R202504-01 | DPT-036 (11-12) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 89.4 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 85.6 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 83.3 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 81.5 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202504-02 | DPT-036 (15-16) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 85.1 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 31 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 31 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 31 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 85.2 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 81.9 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 78 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 31 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 120 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202503-01 | ug/L | 50 | 6.2 | 13 | 50 | 100 | D | | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 28 | 6.4 | 14 | 28 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 28 | 8.9 | 14 | 28 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 28 | 5 | 14 | 28 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | % Recovery | 1400 | 5.6 | 28 | 1400 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | % Recovery | 0.56 | | 0.28 | 0.56 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-01 | % Recovery | 1400 | 6.1 | 28 | 1400 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 28 | 6.5 | 14 | 28 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 110 | 7.8 | 14 | 110 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 28 | 10 | 14 | 28 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 28 | 8.2 | 14 | 28 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | ug/kg dry | 28 | 4.6 | 14 | 28 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-01 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-02 | ug/kg dry | 29 | 6.6 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | ug/kg dry | 29 | 9.3 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | ug/kg dry | 29 | 5.2 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | % Recovery | 1500 | 5.8 | 29 | 1500 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-02 | % Recovery | 1500 | 6.4 | 29 | 1500 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | ug/kg dry | 29 | 6.7 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | ug/kg dry | 120 | 8.1 | 15 | 120 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | ug/kg dry | 29 | 11 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | ug/kg dry | 29 | 8.5 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | ug/kg dry | 29 | 4.8 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-02 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-03 | ug/kg dry | 31 | 7 | 15 | 31 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | ug/kg dry | 31 | 9.8 | 15 | 31 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | ug/kg dry | 31 | 5.5 | 15 | 31 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | % Recovery | 1500 | 6.1 | 31 | 1500 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | % Recovery | 0.61 | | 0.31 | 0.61 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-03 | % Recovery | 1500 | 6.7 | 31 | 1500 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | ug/kg dry | 31 | 7.1 | 15 | 31 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | ug/kg dry | 120 | 8.6 | 15 | 120 | 1 | U | U | 6/15/2020 | 6/15/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 31 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 31 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 31 |
| R202504-03 | DPT-036 (18-19) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 82.7 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 88.4 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 83.7 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202504-04 | DPT-036 (21-22) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 92.1 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 26 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 26 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 26 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 97.9 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 96.8 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 93.9 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 26 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 26 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 26 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 26 |
| R202504-05 | DPT-037 (11-12) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 88.9 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 29 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 29 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 29 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94.7 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 90.3 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202504-03 | ug/kg dry | 31 | 11 | 15 | 31 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | ug/kg dry | 31 | 8.9 | 15 | 31 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | ug/kg dry | 31 | 5 | 15 | 31 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-03 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-04 | ug/kg dry | 29 | 6.6 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | ug/kg dry | 29 | 9.3 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | ug/kg dry | 29 | 5.2 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | % Recovery | 1500 | 5.8 | 29 | 1500 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-04 | % Recovery | 1500 | 6.4 | 29 | 1500 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | ug/kg dry | 29 | 6.7 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | ug/kg dry | 120 | 8.1 | 15 | 120 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | ug/kg dry | 29 | 11 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | ug/kg dry | 29 | 8.5 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | ug/kg dry | 29 | 4.8 | 15 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-04 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-05 | ug/kg dry | 26 | 6 | 13 | 26 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | ug/kg dry | 26 | 8.4 | 13 | 26 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | ug/kg dry | 26 | 4.7 | 13 | 26 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | % Recovery | 1300 | 5.2 | 26 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | % Recovery | 0.52 | | 0.26 | 0.52 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-05 | % Recovery | 1300 | 5.8 | 26 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | ug/kg dry | 26 | 6.1 | 13 | 26 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | ug/kg dry | 100 | 7.3 | 13 | 100 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | ug/kg dry | 26 | 9.7 | 13 | 26 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | ug/kg dry | 26 | 7.6 | 13 | 26 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | ug/kg dry | 26 | 4.3 | 13 | 26 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-05 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-06 | ug/kg dry | 29 | 6.6 | 14 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | ug/kg dry | 29 | 9.2 | 14 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | ug/kg dry | 29 | 5.2 | 14 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | % Recovery | 1400 | 5.8 | 29 | 1400 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | % Recovery | 0.58 | | 0.29 | 0.58 | 1 | | | 6/15/2020 | 6/15/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 87.7 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 29 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 120 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 29 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 29 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 29 |
| R202504-06 | DPT-037 (14-15) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 87.3 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 23 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 23 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 23 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.5 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.5 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.8 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 23 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 92 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 23 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 23 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 23 |
| R202504-07 | DPT-037 (18-19) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 92.4 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 25 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 25 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 25 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 89.9 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.6 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.6 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 25 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 100 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 25 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 25 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 25 |
| R202504-08 | DPT-037 (21-22) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 88.4 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 24 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 24 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202504-06 | % Recovery | 1400 | 6.3 | 29 | 1400 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | ug/kg dry | 29 | 6.7 | 14 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | ug/kg dry | 120 | 8.1 | 14 | 120 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | ug/kg dry | 29 | 11 | 14 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | ug/kg dry | 29 | 8.4 | 14 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | ug/kg dry | 29 | 4.7 | 14 | 29 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-06 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-07 | ug/kg dry | 23 | 5.3 | 12 | 23 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | ug/kg dry | 23 | 7.4 | 12 | 23 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | ug/kg dry | 23 | 4.1 | 12 | 23 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | % Recovery | 1200 | 4.6 | 23 | 1200 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | % Recovery | 0.46 | | 0.23 | 0.46 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-07 | % Recovery | 1200 | 5.1 | 23 | 1200 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | ug/kg dry | 23 | 5.3 | 12 | 23 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | ug/kg dry | 92 | 6.4 | 12 | 92 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | ug/kg dry | 23 | 8.6 | 12 | 23 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | ug/kg dry | 23 | 6.7 | 12 | 23 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | ug/kg dry | 23 | 3.8 | 12 | 23 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-07 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-08 | ug/kg dry | 25 | 5.8 | 13 | 25 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | ug/kg dry | 25 | 8.1 | 13 | 25 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | ug/kg dry | 25 | 4.6 | 13 | 25 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | % Recovery | 1300 | 5.1 | 25 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | % Recovery | 0.51 | | 0.25 | 0.51 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-08 | % Recovery | 1300 | 5.6 | 25 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | ug/kg dry | 25 | 5.9 | 13 | 25 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | ug/kg dry | 100 | 7.1 | 13 | 100 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | ug/kg dry | 25 | 9.4 | 13 | 25 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | ug/kg dry | 25 | 7.4 | 13 | 25 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | ug/kg dry | 25 | 4.2 | 13 | 25 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-08 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-09 | ug/kg dry | 24 | 5.5 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | ug/kg dry | 24 | 7.7 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/15/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 24 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 88.3 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88.9 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.2 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 24 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 97 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 24 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 24 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 24 |
| R202504-09 | DPT-038 (11-12) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 91.6 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 95.1 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 94 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 95 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 27 |
| R202504-10 | DPT-038 (15-16) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 89.7 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 27 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 27 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 27 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 91.7 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 87.5 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 88.8 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 27 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 110 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 27 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 27 |
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 27 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202504-09 | ug/kg dry | 24 | 4.4 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | % Recovery | 1200 | 4.8 | 24 | 1200 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | % Recovery | 0.48 | | 0.24 | 0.48 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-09 | % Recovery | 1200 | 5.3 | 24 | 1200 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | ug/kg dry | 24 | 5.6 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | ug/kg dry | 97 | 6.8 | 12 | 97 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | ug/kg dry | 24 | 9 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | ug/kg dry | 24 | 7.1 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | ug/kg dry | 24 | 4 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-09 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-10 | ug/kg dry | 27 | 6.1 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | ug/kg dry | 27 | 8.5 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | ug/kg dry | 27 | 4.8 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | % Recovery | 1300 | 5.3 | 27 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | % Recovery | 0.53 | | 0.27 | 0.53 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-10 | % Recovery | 1300 | 5.8 | 27 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | ug/kg dry | 27 | 6.2 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | ug/kg dry | 110 | 7.4 | 13 | 110 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | ug/kg dry | 27 | 9.9 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | ug/kg dry | 27 | 7.8 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | ug/kg dry | 27 | 4.4 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-10 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-11 | ug/kg dry | 27 | 6.1 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | ug/kg dry | 27 | 8.5 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | ug/kg dry | 27 | 4.8 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | % Recovery | 1300 | 5.3 | 27 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | % Recovery | 0.53 | | 0.27 | 0.53 | 1 | | | 6/15/2020 | 6/15/2020 |
| R202504-11 | % Recovery | 1300 | 5.9 | 27 | 1300 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | ug/kg dry | 27 | 6.2 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | ug/kg dry | 110 | 7.4 | 13 | 110 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | ug/kg dry | 27 | 9.9 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | ug/kg dry | 27 | 7.8 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |
| R202504-11 | ug/kg dry | 27 | 4.4 | 13 | 27 | 1 | U | U | 6/15/2020 | 6/15/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202504-11 | DPT-038 (18-19) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 88.6 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 127-18-4 | Y | Tetrachloroethene | 24 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 24 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 24 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 115 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 106 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 108 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 75-01-4 | Y | Vinyl chloride | 24 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 75-09-2 | Y | Methylene chloride | 98 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 75-34-3 | Y | 1,1-Dichloroethane | 24 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 24 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | 79-01-6 | Y | Trichloroethene | 24 |
| R202504-12 | DPT-038 (22-23) | Soil | 6/15/2020 | 6/15/2020 | NA | Y | % Solids | 88 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 2.5 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 127-18-4 | Y | Tetrachloroethene | 2.5 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 2.5 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 2.5 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 92.1 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 89.4 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 85.3 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 75-01-4 | Y | Vinyl chloride | 2.5 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 75-09-2 | Y | Methylene chloride | 10 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 2.5 |
| R202505-01 | DPT-035 (33) | Water | 6/16/2020 | 6/16/2020 | 79-01-6 | Y | Trichloroethene | 59 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 107-06-2 | Y | 1,2-Dichloroethane | 2.5 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 127-18-4 | Y | Tetrachloroethene | 2.5 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 156-59-2 | Y | cis-1,2-Dichloroethene | 2.5 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 156-60-5 | Y | trans-1,2-Dichloroethene | 2.5 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 2037-26-5 | Y | Toluene-d8 (surr) | 94 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 2199-69-1 | Y | 1,2-Dichlorobenzene-d4 (surr) | 88 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 460-00-4 | Y | 4-Bromofluorobenzene (surr) | 86.4 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 75-01-4 | Y | Vinyl chloride | 2.5 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 75-09-2 | Y | Methylene chloride | 10 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202504-11 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 24 | 5.6 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 24 | 7.8 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 24 | 4.4 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | % Recovery | 1200 | 4.9 | 24 | 1200 | 1 | S, U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | % Recovery | 0.49 | | 0.24 | 0.49 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202504-12 | % Recovery | 1200 | 5.4 | 24 | 1200 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 24 | 5.7 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 98 | 6.8 | 12 | 98 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 24 | 9.1 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 24 | 7.1 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | ug/kg dry | 24 | 4 | 12 | 24 | 1 | U | U | 6/15/2020 | 6/16/2020 |
| R202504-12 | % by Weight | 0 | 0 | | 0 | 1 | | | 6/15/2020 | 6/16/2020 |
| R202505-01 | ug/L | 2.5 | 0.39 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-01 | ug/L | 2.5 | 0.41 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-01 | ug/L | 2.5 | 0.55 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-01 | ug/L | 2.5 | 0.55 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-01 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/16/2020 | 6/16/2020 |
| R202505-01 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/16/2020 | 6/16/2020 |
| R202505-01 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/16/2020 | 6/16/2020 |
| R202505-01 | ug/L | 2.5 | 0.8 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-01 | ug/L | 10 | 0.7 | 1.3 | 10 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-01 | ug/L | 2.5 | 0.7 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-01 | ug/L | 2.5 | 0.31 | 0.63 | 2.5 | 5 | D | | 6/16/2020 | 6/16/2020 |
| R202505-02 | ug/L | 2.5 | 0.39 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-02 | ug/L | 2.5 | 0.41 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-02 | ug/L | 2.5 | 0.55 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-02 | ug/L | 2.5 | 0.55 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-02 | % Recovery | 0.5 | 0.19 | 0.25 | 0.5 | 1 | | | 6/16/2020 | 6/16/2020 |
| R202505-02 | % Recovery | 0.5 | | 0.25 | 0.5 | 1 | | | 6/16/2020 | 6/16/2020 |
| R202505-02 | % Recovery | 0.5 | 0.24 | 0.25 | 0.5 | 1 | | | 6/16/2020 | 6/16/2020 |
| R202505-02 | ug/L | 2.5 | 0.8 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-02 | ug/L | 10 | 0.7 | 1.3 | 10 | 5 | U | U | 6/16/2020 | 6/16/2020 |

| Sample | Client_Sample_No | Matrix | Sampled | Date_Received | CASNUMB | Report? | Analyte | Result |
|---|---|---|---|---|---|---|---|---|
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 75-35-4 | Y | 1,1-Dichloroethene | 2.5 |
| R202505-02 | DPT-037 (33) | Water | 6/16/2020 | 6/16/2020 | 79-01-6 | Y | Trichloroethene | 2.5 |

| Sample | UNITS | Reporting_ | MDL | DOD_LOD | DOD_LOQ | Dilution | Qualifiers | Final Quali | Extraction_Da | Analysis_Date |
|---|---|---|---|---|---|---|---|---|---|---|
| R202505-02 | ug/L | 2.5 | 0.7 | 1.3 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |
| R202505-02 | ug/L | 2.5 | 0.31 | 0.63 | 2.5 | 5 | U | U | 6/16/2020 | 6/16/2020 |

# DATA VALIDATION REPORT

Volatile Organic Compounds (VOCs) by USEPA SW-846 Method 8260B

| | |
|---|---|
| **Project:** | USACE Longhorn Army Ammunition Plant (LHAAP), Texas Soils – July 2020 |
| **Project/Task Number:** | 10097916 8.0 |
| **Sample Data Package:** | M0G1924 |
| **Laboratory:** | Microbac Labs, Marietta, Ohio |
| **Sample Matrix:** | Groundwater |
| **Sampling Dates:** | 23 July 2020 |
| **Validation Guidelines:** | Project QAPP *(Final Quality Assurance Project Plan for Longhorn Army Ammunition Plant, Karnack, Texas [July 2014]*); United States Environmental Protection Agency (USEPA) *Test Methods for Evaluating Solid Waste, Physical/Chemical Meth*ods, *3rd edition* (SW-846); *National Functional Guidelines for Organic Superfund Data Review (USEPA, September 2016)* and professional judgment |
| **Validation Level:** | Stage 2BVM (100% of data), Stage 3VM (10% of data) |
| **Data Reviewer:** | Lynn K. Lutz, HDR |

| Sample ID | Lab ID | Date | Matrix | VOCs |
|---|---|---|---|---|
| 47WW48 | M0G1924-05 | 23 July 2020 | GW | X |
| 47WW49 | M0G1924-06 | 23 July 2020 | GW | X |
| 47WW50 | M0G1924-07 | 23 July 2020 | GW | X |
| 47WW51 | M0G1924-08 | 23 July 2020 | GW | X |
| 47WW52 | M0G1924-03 | 23 July 2020 | GW | X |
| 47WW53 | M0G1924-04 | 23 July 2020 | GW | X |
| 47WW54 | M0G1924-01 | 23 July 2020 | GW | X |
| 47WW55 | M0G1924-02 | 23 July 2020 | GW | X |
| EB-05 | M0G1924-09 | 23 July 2020 | QC Water | X |
| TB-03 | M0G1924-10 | 23 July 2020 | QC Water | X |

## SUMMARY

One hundred percent of the data underwent Stage 2BVM level validation. Ten percent of the data underwent Stage 3VM level validation.

Laboratory data were acceptable with qualification as noted below. No data were rejected. Completeness was 100%, which met the goal of 90% for the project.

## I. SAMPLE RECEIPT / CHAIN OF CUSTODY

The chains of custody (COC) were filled out and signed. Samples were received within the correct temperature range (at 1.9°C). No qualification was required.

## II. SAMPLES ANALYZED

All planned samples were collected and all scheduled analyses were performed. The correct analyte lists were reported. No qualification was required.

*VOCs:* Samples were analyzed by USEPA SW-846 Method 8260B.

## III. HOLDING TIMES AND PRESERVATION

All holding time criteria were met and no qualification was required except as noted below.

*VOCs:* All samples were at pH <2 at the time of analysis and were analyzed within 14 days of collection. No qualification was required.

## IV. BLANKS

***METHOD BLANKS (MBs)***

*VOCs:* Trichloroethene was detected at a trace level in one MB. Sample results were higher and no qualification was required.

***TRIP BLANKS (TBs)***

*VOCs:* VOCs were not detected in the TB. No qualification was required.

***EQUIPMENT RINSE BLANK (EB)***

*VOCs:* Chloroform was detected in the EB at 1.33 µg/L. Some sample results required qualification as shown below.

| Analyte | EB Conc | Sample | Sample Conc | Qualifier |
|---|---|---|---|---|
| Chloroform | 1.33 µg/L | 47WW48 | 66.1 µg/L | None |
| | | 47WW49 | 79 µg/L @ 100X dilution = 0.79 µg/L raw | J+ |
| | | 47WW51 | 0.220 µg/L | J+ |
| | | 47WW54 | 0.18 µg/L | J+ |
| | | 47WW55 | 0.90 µg/L | J+ |

## V. LABORATORY CONTROL SAMPLES / LABORATORY CONTROL SAMPLE DUPLICATE (LCS/LCSD)

*VOCs:* Recoveries were generally within control limits except as noted below. Some other recoveries were outside control limits but sample results did not require qualification.

| LCS ID | Analyte | Recovery | Control Limits | Associated Samples | Qualifier |
|---|---|---|---|---|---|
| B0G1490 | All OK | | | | None |
| B0G1543 | Bromomethane | OK, 143% | 55-141% | All | None – ND |
| | Chloroethane | OK, 169%<br>RPD 22% | 60-138%<br>RPD 20% | All | None - ND |
| B0G1631 | Bromomethane | 145%, OK | 55-141% | None reported | None |
| | Vinyl chloride | 144%, OK | 58-137% | None reported | None |

## VI. MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS/MSD)

*VOCs:* No samples were designated on the COC for MS/MSD analysis. The lab did not spike any samples from this project. No qualification was required.

## VI. DILUTION TEST AND POST DIGESTION SPIKE (PDS)

A dilution test was performed for analytes detected at least 50 times the concentration of the MRL, and results agreed within ten percent. A post digestion spike (PDS) was performed on samples and the recoveries were between 80 and 120 percent except as noted below. These tests are applicable only to metals by SW6010C and SW6020.

*VOCs:* Not applicable.

## VIII. FIELD DUPLICATES

No field duplicate (FD) sample was collected. No qualification was required.

## IX. LABORATORY DUPLICATES

Laboratory duplicate (LD) analyses were not performed on any samples from this project.

## X. INSTRUMENT CALIBRATION

### *INITIAL CALIBRATION*

*VOCs:* The calibration curve included a standard at or below the LOQ. Calibration requirements were met. No qualification was required.

### *INITIAL CALIBRATION VERIFICATION (ICV)*

*VOCs:* Some analytes had percent difference (%D) values above the required limit of 20% and the associated samples required qualification as shown in the table below.

| Instrument | Analyte | %D | Associated samples | Qualification |
|---|---|---|---|---|
| HPMS8 | Vinyl acetate | +33% | All | UJ |

### *CONTINUING CALIBRATION VERIFICATION (CCV)*

*VOCs:* Some analytes had percent difference (%D) values above the required limit of 20% and the associated samples required qualification as shown in the table below.

| CCV | Analyte | %D | Associated samples | Qualification |
|---|---|---|---|---|
| HPMS8 7/29/2020 11:48 | Vinyl acetate | +21.5% | All | None - ND |
| HPMS8 7/30/2020 10:42 | Bromomethane | +26% | All – dilutions | None – Not reported from this run |
| | Chloroethane | +24% | | |
| | Vinyl acetate | +28% | | |
| HPMS8 7/31/2020 10:23 | Bromomethane | +28% | All – dilutions | None – Not reported from this run |
| | Chloroethane | +84% | | |
| | Vinyl acetate | +34% | | |
| HPMS8 7/31/2020 21:08 | Chloroethane | +100% | All – dilutions | None – Not reported from this run |

## XI. SURROGATES AND INTERNAL STANDARDS

*VOCs:* Internal standard areas and retention times were within required limits. Surrogate recoveries were within control limits. No qualification was required.

## XII. SAMPLE LIMITS OF QUANTITATION (LOQs)

Limits of quantitation (LOQs) should be less than the applicable project action levels (PALs) as listed in the project QAPP.

*VOCs:* LOQs were below the PALs except as shown below.

| Analyte | Matrix | LOQ | Samples | TCEQ GW Ind MSC | MCL | QAPP LOQ |
|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | GW | 2 µg/L | All | 0.041 µg/L | -- | 2 µg/L |
| 1,2-Dibromo-3-chloropropane (DBCP) | GW | 4 µg/L | All | 0.2 µg/L | 0.2 µg/L | 1 µg/L |
| 1,2-Dibromoethane (EDB) | GW | 1 µg/L | All | 0.05 µg/L | -- | 1 µg/L |

## XIII. SAMPLE RESULTS / TRANSCRIPTION VERIFICATION

Transcription between the data package and the EDDs was verified. Results reported below the LOQs but above the DLs were qualified as estimated (J). Non-detect results were reported down to the limits of detection (LODs).

*VOCs:* No issues.

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Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

**Longhorn**

For:

Lynn Lutz

**HDR**

9781 S. Meridian Blvd Suite 400

Englewood, CO 80112

**Project State of Origin:** Texas

*All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.*

**Laboratory Project Manager:**

Stephanie Mossburg

Stephanie Mossburg

Customer Relations Manager

Stephanie.Mossburg@microbac.com

**Authorized By:**

Stephanie Mossburg

Stephanie Mossburg

Customer Relations Manager

Issued: 08/11/2020

MICROBAC®

**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Cooler Receipt Log**

**Cooler ID:** Default Cooler Temp: 1.2°C

**Cooler Inspection Checklist**

| | |
|---|---|
| Ice Present or not required? | Yes |
| Shipping containers sealed or not required? | Yes |
| Custody seals intact or not required? | Yes |
| Chain of Custody (COC) Present? | Yes |
| COC includes customer information? | Yes |
| Relinquished and received signature on COC? | Yes |
| Sample collector identified on COC? | Yes |
| Sample type identified on COC? | Yes |
| Correct type of Containers Received | Yes |
| Correct number of containers listed on COC? | Yes |
| Containers Intact? | Yes |
| COC includes requested analyses? | Yes |
| Enough sample volume for indicated tests received? | Yes |
| Sample labels match COC (Name, Date & Time?) | Yes |
| Samples arrived within hold time? | Yes |
| Correct preservatives on COC or not required? | Yes |
| Chemical preservations checked or not required? | Yes |
| Preservation checks meet method requirements? | Yes |
| VOA vials have zero headspace, or not recd.? | Yes |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW54 | | | **Collection Date:** | 07/23/2020 09:35 |
| **Laboratory ID:** | M0G1924-01 | | | **Prep Date:** | 07/29/2020 15:21 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:21 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435141.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 6.87 | 0.500 | 1.00 | 2.00 | | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW54 | | | **Collection Date:** | 07/23/2020 09:35 |
| **Laboratory ID:** | M0G1924-01 | | | **Prep Date:** | 07/29/2020 15:21 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:21 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435141.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 0.180 | 0.125 | 0.250 | 0.500 | J | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| cis-1,2-Dichloroethene | 156-59-2 | 107 | 0.250 | 0.500 | 1.00 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Toluene | 108-88-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 3.80 | 0.250 | 0.500 | 1.00 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 1.32 | 0.250 | 0.500 | 1.00 | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW54 | | | **Collection Date:** | 07/23/2020 09:35 |
| **Laboratory ID:** | M0G1924-01 | | | **Prep Date:** | 07/29/2020 15:21 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:21 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435141.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 103 | 80-119 | % Rec | | | |
| *Toluene-d8* | 97.1 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 101 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 102 | 85-114 | % Rec | | | |

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**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW54 | | | **Collection Date:** | 07/23/2020 09:35 |
| **Laboratory ID:** | M0G1924-01RE1 | | | **Prep Date:** | 07/30/2020 17:24 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 17:24 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435201.D |
| **Analyst:** | EEA | **Dilution:** | 100 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 4860 | 25.0 | 50.0 | 100 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | 105 | 85-114 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 102 | 81-118 | % Rec | | | |
| *Dibromofluoromethane* | 103 | 80-119 | % Rec | | | |
| *Toluene-d8* | 96.3 | 89-112 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW55 | | | **Collection Date:** | 07/23/2020 10:45 |
| **Laboratory ID:** | M0G1924-02 | | | **Prep Date:** | 07/29/2020 15:40 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:40 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435142.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 0.870 | 0.500 | 1.00 | 2.00 | J | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 3.87 | 2.50 | 5.00 | 10.0 | J | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW55 | | | **Collection Date:** | 07/23/2020 10:45 |
| **Laboratory ID:** | M0G1924-02 | | | **Prep Date:** | 07/29/2020 15:40 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:40 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435142.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 0.900 | 0.125 | 0.250 | 0.500 | | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| cis-1,2-Dichloroethene | 156-59-2 | 3.51 | 0.250 | 0.500 | 1.00 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Toluene | 108-88-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 0.480 | 0.250 | 0.500 | 1.00 | J | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW55 | | | **Collection Date:** | 07/23/2020 10:45 |
| **Laboratory ID:** | M0G1924-02 | | | **Prep Date:** | 07/29/2020 15:40 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:40 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435142.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 102 | 80-119 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 101 | 81-118 | % Rec | | | |
| *Toluene-d8* | 99.0 | 89-112 | % Rec | | | |
| *4-Bromofluorobenzene* | 103 | 85-114 | % Rec | | | |

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**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

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| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW55 | | | **Collection Date:** | 07/23/2020 10:45 |
| **Laboratory ID:** | M0G1924-02RE1 | | | **Prep Date:** | 07/30/2020 17:42 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 17:42 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435202.D |
| **Analyst:** | EEA | **Dilution:** | 100 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 2410 | 25.0 | 50.0 | 100 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | 101 | 85-114 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 104 | 81-118 | % Rec | | | |
| *Dibromofluoromethane* | 106 | 80-119 | % Rec | | | |
| *Toluene-d8* | 95.6 | 89-112 | % Rec | | | |

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**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW52 | | | **Collection Date:** | 07/23/2020 11:45 |
| **Laboratory ID:** | M0G1924-03 | | | **Prep Date:** | 07/29/2020 15:58 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:58 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435143.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 1.50 | 0.500 | 1.00 | 2.00 | J | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW52 | | | **Collection Date:** | 07/23/2020 11:45 |
| **Laboratory ID:** | M0G1924-03 | | | **Prep Date:** | 07/29/2020 15:58 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:58 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435143.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| cis-1,2-Dichloroethene | 156-59-2 | 5.49 | 0.250 | 0.500 | 1.00 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Toluene | 108-88-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 0.520 | 0.250 | 0.500 | 1.00 | J | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 0.390 | 0.250 | 0.500 | 1.00 | J | |

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**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW52 | | | **Collection Date:** | 07/23/2020 11:45 |
| **Laboratory ID:** | M0G1924-03 | | | **Prep Date:** | 07/29/2020 15:58 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:58 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435143.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 102 | 80-119 | % Rec | | | |
| *Toluene-d8* | 97.4 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 101 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 101 | 85-114 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

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| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW52 | | | **Collection Date:** | 07/23/2020 11:45 |
| **Laboratory ID:** | M0G1924-03RE1 | | | **Prep Date:** | 07/30/2020 18:01 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 18:01 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435203.D |
| **Analyst:** | EEA | **Dilution:** | 100 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 5990 | 25.0 | 50.0 | 100 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | 104 | 85-114 | % Rec | | | |
| *Dibromofluoromethane* | 102 | 80-119 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 102 | 81-118 | % Rec | | | |
| *Toluene-d8* | 96.6 | 89-112 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW53 | | | **Collection Date:** | 07/23/2020 12:30 |
| **Laboratory ID:** | M0G1924-04 | | | **Prep Date:** | 07/29/2020 16:17 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 16:17 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435144.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 4.15 | 0.500 | 1.00 | 2.00 | | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 7.08 | 2.50 | 5.00 | 10.0 | J | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 0.720 | 0.500 | 1.00 | 2.00 | J | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW53 | | | **Collection Date:** | 07/23/2020 12:30 |
| **Laboratory ID:** | M0G1924-04 | | | **Prep Date:** | 07/29/2020 16:17 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 16:17 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435144.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chloromethane | 74-87-3 | 0.520 | 0.500 | 1.00 | 2.00 | J | |
| cis-1,2-Dichloroethene | 156-59-2 | 23.8 | 0.250 | 0.500 | 1.00 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.400 | 0.250 | 0.500 | 1.00 | J | |
| Toluene | 108-88-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 4.11 | 0.250 | 0.500 | 1.00 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 0.290 | 0.250 | 0.500 | 1.00 | J | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW53 | | | **Collection Date:** | 07/23/2020 12:30 |
| **Laboratory ID:** | M0G1924-04 | | | **Prep Date:** | 07/29/2020 16:17 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 16:17 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435144.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 104 | 80-119 | % Rec | | | |
| *Toluene-d8* | 101 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 103 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 105 | 85-114 | % Rec | | | |

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| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW53 | | | **Collection Date:** | 07/23/2020 12:30 |
| **Laboratory ID:** | M0G1924-04RE1 | | | **Prep Date:** | 07/30/2020 18:19 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 18:19 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435204.D |
| **Analyst:** | EEA | **Dilution:** | 100 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 5540 | 25.0 | 50.0 | 100 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | 104 | 85-114 | % Rec | | | |
| *Dibromofluoromethane* | 104 | 80-119 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 103 | 81-118 | % Rec | | | |
| *Toluene-d8* | 95.4 | 89-112 | % Rec | | | |

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**Client Project ID: Longhorn**

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| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW48 | | | **Collection Date:** | 07/23/2020 14:00 |
| **Laboratory ID:** | M0G1924-05 | | | **Prep Date:** | 07/29/2020 16:35 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 16:35 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435145.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.430 | 0.250 | 0.500 | 1.00 | J | |
| 1,1-Dichloroethane | 75-34-3 | 1.73 | 0.125 | 0.250 | 0.500 | | |
| 1,1-Dichloroethene | 75-35-4 | 25.4 | 0.500 | 1.00 | 2.00 | | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 1.56 | 0.250 | 0.500 | 1.00 | | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 5.28 | 2.50 | 5.00 | 10.0 | J | |
| Benzene | 71-43-2 | 0.350 | 0.125 | 0.250 | 0.500 | J | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 10.2 | 0.250 | 0.500 | 1.00 | | |
| Bromoform | 75-25-2 | 1.52 | 0.500 | 1.00 | 2.00 | J | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

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**Client Project ID: Longhorn**

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| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW48 | | | **Collection Date:** | 07/23/2020 14:00 |
| **Laboratory ID:** | M0G1924-05 | | | **Prep Date:** | 07/29/2020 16:35 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 16:35 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435145.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 6.49 | 0.250 | 0.500 | 1.00 | | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 66.1 | 0.125 | 0.250 | 0.500 | | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | J | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.990 | 0.250 | 0.500 | 1.00 | J | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 1.79 | 0.250 | 0.500 | 1.00 | | |
| Toluene | 108-88-3 | 0.310 | 0.250 | 0.500 | 1.00 | J | |
| trans-1,2-Dichloroethene | 156-60-5 | 2.23 | 0.250 | 0.500 | 1.00 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 5.93 | 0.250 | 0.500 | 1.00 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 101 | 80-119 | % Rec | | | |
| *Toluene-d8* | 96.0 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 100 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 97.1 | 85-114 | % Rec | | | |

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**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW48 | | | **Collection Date:** | 07/23/2020 14:00 |
| **Laboratory ID:** | M0G1924-05RE1 | | | **Prep Date:** | 07/30/2020 17:05 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 17:05 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435200.D |
| **Analyst:** | EEA | **Dilution:** | 50 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 156-59-2 | 352 | 12.5 | 25.0 | 50.0 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | 101 | 85-114 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 103 | 81-118 | % Rec | | | |
| *Dibromofluoromethane* | 105 | 80-119 | % Rec | | | |
| *Toluene-d8* | 93.9 | 89-112 | % Rec | | | |

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| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW48 | | | **Collection Date:** | 07/23/2020 14:00 |
| **Laboratory ID:** | M0G1924-05RE2 | | | **Prep Date:** | 07/31/2020 15:02 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/31/2020 15:02 |
| **Batch / Sequence:** | B0G1631 / S0G0560 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435228.D |
| **Analyst:** | EEA | **Dilution:** | 500 | | |

**Sample Notes:** D3

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 54100 | 125 | 250 | 500 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Toluene-d8* | 93.2 | 89-112 | % Rec | | | |
| *Dibromofluoromethane* | 104 | 80-119 | % Rec | | | |
| *4-Bromofluorobenzene* | 101 | 85-114 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 103 | 81-118 | % Rec | | | |

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**Client Project ID: Longhorn**

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| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW49 | | | **Collection Date:** | 07/23/2020 14:55 |
| **Laboratory ID:** | M0G1924-06RE1 | | | **Prep Date:** | 07/30/2020 18:38 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 18:38 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435205.D |
| **Analyst:** | EEA | **Dilution:** | 100 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 40.0 | 20.0 | 40.0 | 80.0 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 400 | 200 | 400 | 800 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,1-Dichloroethane | 75-34-3 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| 1,1-Dichloroethene | 75-35-4 | 100 | 50.0 | 100 | 200 | U | |
| 1,1-Dichloropropene | 563-58-6 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 30.0 | 15.0 | 30.0 | 60.0 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 100 | 50.0 | 100 | 200 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 40.0 | 20.0 | 40.0 | 80.0 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 200 | 100 | 200 | 400 | U | |
| 1,2-Dibromoethane | 106-93-4 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| 1,2-Dichloroethane | 107-06-2 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,2-Dichloropropane | 78-87-5 | 40.0 | 20.0 | 40.0 | 80.0 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 1,3-Dichloropropane | 142-28-9 | 40.0 | 20.0 | 40.0 | 80.0 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 50.0 | 12.5 | 50.0 | 100 | U | |
| 2,2-Dichloropropane | 594-20-7 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 2-Butanone | 78-93-3 | 500 | 250 | 500 | 1000 | U | |
| 2-Chlorotoluene | 95-49-8 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| 2-Hexanone | 591-78-6 | 500 | 250 | 500 | 1000 | U | |
| 4-Chlorotoluene | 106-43-4 | 50.0 | 25.0 | 50.0 | 100 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 500 | 250 | 500 | 1000 | U | |
| Acetone | 67-64-1 | 500 | 250 | 500 | 1000 | U | |
| Benzene | 71-43-2 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| Bromobenzene | 108-86-1 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| Bromochloromethane | 74-97-5 | 40.0 | 20.0 | 40.0 | 80.0 | U | |
| Bromodichloromethane | 75-27-4 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Bromoform | 75-25-2 | 100 | 50.0 | 100 | 200 | U | |
| Bromomethane | 74-83-9 | 100 | 50.0 | 100 | 200 | U | Q2, Q7 |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW49 | | | **Collection Date:** | 07/23/2020 14:55 |
| **Laboratory ID:** | M0G1924-06RE1 | | | **Prep Date:** | 07/30/2020 18:38 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 18:38 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435205.D |
| **Analyst:** | EEA | **Dilution:** | 100 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon disulfide | 75-15-0 | 100 | 50.0 | 100 | 200 | U | |
| Carbon tetrachloride | 56-23-5 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Chlorobenzene | 108-90-7 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| Chlorodibromomethane | 124-48-1 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 100 | 50.0 | 100 | 200 | U | Q2, Q7 |
| Chloroform | 67-66-3 | 79.0 | 12.5 | 25.0 | 50.0 | | |
| Chloromethane | 74-87-3 | 100 | 50.0 | 100 | 200 | U | |
| cis-1,2-Dichloroethene | 156-59-2 | 505 | 25.0 | 50.0 | 100 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Dibromomethane | 74-95-3 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Dichlorodifluoromethane | 75-71-8 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Ethylbenzene | 100-41-4 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Hexachlorobutadiene | 87-68-3 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Isopropylbenzene | 98-82-8 | 50.0 | 25.0 | 50.0 | 100 | U | |
| m-,p-Xylene | 179601-23-1 | 100 | 50.0 | 100 | 200 | U | |
| Methylene chloride | 75-09-2 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Naphthalene | 91-20-3 | 40.0 | 20.0 | 40.0 | 80.0 | U | |
| n-Butylbenzene | 104-51-8 | 50.0 | 25.0 | 50.0 | 100 | U | |
| n-Propylbenzene | 103-65-1 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| o-Xylene | 95-47-6 | 50.0 | 25.0 | 50.0 | 100 | U | |
| p-Isopropyltoluene | 99-87-6 | 50.0 | 25.0 | 50.0 | 100 | U | |
| sec-Butylbenzene | 135-98-8 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Styrene | 100-42-5 | 25.0 | 12.5 | 25.0 | 50.0 | U | |
| tert-Butylbenzene | 98-06-6 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Tetrachloroethene | 127-18-4 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Toluene | 108-88-3 | 50.0 | 25.0 | 50.0 | 100 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 50.0 | 25.0 | 50.0 | 100 | U | |
| trans-1,3-Dichloropropene | 10061-02-6 | 100 | 50.0 | 100 | 200 | U | |
| Trichloroethene | 79-01-6 | 10200 | 25.0 | 50.0 | 100 | | |
| Trichlorofluoromethane | 75-69-4 | 50.0 | 25.0 | 50.0 | 100 | U | |
| Vinyl acetate | 108-05-4 | 500 | 250 | 500 | 1000 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 50.0 | 25.0 | 50.0 | 100 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW49 | | | **Collection Date:** | 07/23/2020 14:55 |
| **Laboratory ID:** | M0G1924-06RE1 | | | **Prep Date:** | 07/30/2020 18:38 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 18:38 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435205.D |
| **Analyst:** | EEA | **Dilution:** | 100 | | |

**Sample Notes:** D

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 104 | 80-119 | % Rec | | | |
| *Toluene-d8* | 93.5 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 101 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 98.0 | 85-114 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW50 | | | **Collection Date:** | 07/23/2020 15:46 |
| **Laboratory ID:** | M0G1924-07 | | | **Prep Date:** | 07/29/2020 17:08 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 17:08 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435147.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW50 | | | **Collection Date:** | 07/23/2020 15:46 |
| **Laboratory ID:** | M0G1924-07 | | | **Prep Date:** | 07/29/2020 17:08 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 17:08 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435147.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| cis-1,2-Dichloroethene | 156-59-2 | 24.7 | 0.250 | 0.500 | 1.00 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.420 | 0.250 | 0.500 | 1.00 | J | |
| Toluene | 108-88-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW50 | | | **Collection Date:** | 07/23/2020 15:46 |
| **Laboratory ID:** | M0G1924-07 | | | **Prep Date:** | 07/29/2020 17:08 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 17:08 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435147.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 102 | 80-119 | % Rec | | | |
| *Toluene-d8* | 99.5 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 103 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 103 | 85-114 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW50 | | | **Collection Date:** | 07/23/2020 15:46 |
| **Laboratory ID:** | M0G1924-07RE1 | | | **Prep Date:** | 07/30/2020 16:28 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 16:28 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435198.D |
| **Analyst:** | EEA | **Dilution:** | 25 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Trichloroethene | 79-01-6 | 471 | 6.25 | 12.5 | 25.0 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | 103 | 85-114 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 103 | 81-118 | % Rec | | | |
| *Dibromofluoromethane* | 103 | 80-119 | % Rec | | | |
| *Toluene-d8* | 96.5 | 89-112 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW51 | | | **Collection Date:** | 07/23/2020 16:57 |
| **Laboratory ID:** | M0G1924-08 | | | **Prep Date:** | 07/29/2020 17:26 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 17:26 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435148.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 3.56 | 0.500 | 1.00 | 2.00 | | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW51 | | | **Collection Date:** | 07/23/2020 16:57 |
| **Laboratory ID:** | M0G1924-08 | | | **Prep Date:** | 07/29/2020 17:26 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 17:26 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435148.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 0.220 | 0.125 | 0.250 | 0.500 | J | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.370 | 0.250 | 0.500 | 1.00 | J | |
| Toluene | 108-88-3 | 0.340 | 0.250 | 0.500 | 1.00 | J | |
| trans-1,2-Dichloroethene | 156-60-5 | 1.58 | 0.250 | 0.500 | 1.00 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 0.510 | 0.250 | 0.500 | 1.00 | J | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 102 | 80-119 | % Rec | | | |
| *Toluene-d8* | 96.1 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 104 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 98.3 | 85-114 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | 47WW51 | | | **Collection Date:** | 07/23/2020 16:57 |
| **Laboratory ID:** | M0G1924-08RE1 | | | **Prep Date:** | 07/30/2020 16:47 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/30/2020 16:47 |
| **Batch / Sequence:** | B0G1543 / S0G0523 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435199.D |
| **Analyst:** | EEA | **Dilution:** | 50 | | |

**Sample Notes:** D

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 156-59-2 | 271 | 12.5 | 25.0 | 50.0 | | |
| Trichloroethene | 79-01-6 | 3990 | 12.5 | 25.0 | 50.0 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 104 | 80-119 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 101 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 106 | 85-114 | % Rec | | | |
| *Toluene-d8* | 97.5 | 89-112 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | EB-05 | | | **Collection Date:** | 07/23/2020 17:50 |
| **Laboratory ID:** | M0G1924-09 | | | **Prep Date:** | 07/29/2020 15:03 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:03 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435140.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

MICROBAC®

**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | EB-05 | | | **Collection Date:** | 07/23/2020 17:50 |
| **Laboratory ID:** | M0G1924-09 | | | **Prep Date:** | 07/29/2020 15:03 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:03 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435140.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 1.33 | 0.125 | 0.250 | 0.500 | | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| cis-1,2-Dichloroethene | 156-59-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Toluene | 108-88-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichloroethene | 79-01-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | EB-05 | | | **Collection Date:** | 07/23/2020 17:50 |
| **Laboratory ID:** | M0G1924-09 | | | **Prep Date:** | 07/29/2020 15:03 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 15:03 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435140.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 102 | 80-119 | % Rec | | | |
| *Toluene-d8* | 99.3 | 89-112 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 101 | 81-118 | % Rec | | | |
| *4-Bromofluorobenzene* | 102 | 85-114 | % Rec | | | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | TB-03 | | | **Collection Date:** | 07/23/2020 07:00 |
| **Laboratory ID:** | M0G1924-10 | | | **Prep Date:** | 07/29/2020 14:44 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 14:44 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435139.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,1-Trichloroethane | 71-55-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | 4.00 | 2.00 | 4.00 | 8.00 | U | |
| 1,1,2-Trichloroethane | 79-00-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,1-Dichloroethane | 75-34-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,1-Dichloroethene | 75-35-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,1-Dichloropropene | 563-58-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2,3-Trichlorobenzene | 87-61-6 | 0.300 | 0.150 | 0.300 | 0.600 | U | |
| 1,2,3-Trichloropropane | 96-18-4 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 2.00 | 1.00 | 2.00 | 4.00 | U | |
| 1,2-Dibromoethane | 106-93-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichlorobenzene | 95-50-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 1,2-Dichloroethane | 107-06-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,2-Dichloropropane | 78-87-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichlorobenzene | 541-73-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 1,3-Dichloropropane | 142-28-9 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| 1,4-Dichlorobenzene | 106-46-7 | 0.500 | 0.125 | 0.500 | 1.00 | U | |
| 2,2-Dichloropropane | 594-20-7 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 2-Butanone | 78-93-3 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 2-Chlorotoluene | 95-49-8 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| 2-Hexanone | 591-78-6 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| 4-Chlorotoluene | 106-43-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| 4-Methyl-2-pentanone | 108-10-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Acetone | 67-64-1 | 5.00 | 2.50 | 5.00 | 10.0 | U | |
| Benzene | 71-43-2 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromobenzene | 108-86-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Bromochloromethane | 74-97-5 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| Bromodichloromethane | 75-27-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Bromoform | 75-25-2 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Bromomethane | 74-83-9 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Carbon disulfide | 75-15-0 | 1.00 | 0.500 | 1.00 | 2.00 | U | |

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**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | TB-03 | | | **Collection Date:** | 07/23/2020 07:00 |
| **Laboratory ID:** | M0G1924-10 | | | **Prep Date:** | 07/29/2020 14:44 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 14:44 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435139.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Analyte | CAS Number | Result | DL | LOD | LOQ | Flag | Qual |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chlorobenzene | 108-90-7 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chlorodibromomethane | 124-48-1 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Chloroethane (Ethyl chloride) | 75-00-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Chloroform | 67-66-3 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| Chloromethane | 74-87-3 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| cis-1,2-Dichloroethene | 156-59-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| cis-1,3-Dichloropropene | 10061-01-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dibromomethane | 74-95-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Dichlorodifluoromethane | 75-71-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Ethylbenzene | 100-41-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Hexachlorobutadiene | 87-68-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Isopropylbenzene | 98-82-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| m-,p-Xylene | 179601-23-1 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Methylene chloride | 75-09-2 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Naphthalene | 91-20-3 | 0.400 | 0.200 | 0.400 | 0.800 | U | |
| n-Butylbenzene | 104-51-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| n-Propylbenzene | 103-65-1 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| o-Xylene | 95-47-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| p-Isopropyltoluene | 99-87-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| sec-Butylbenzene | 135-98-8 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Styrene | 100-42-5 | 0.250 | 0.125 | 0.250 | 0.500 | U | |
| tert-Butylbenzene | 98-06-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Tetrachloroethene | 127-18-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Toluene | 108-88-3 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,2-Dichloroethene | 156-60-5 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| trans-1,3-Dichloropropene | 10061-02-6 | 1.00 | 0.500 | 1.00 | 2.00 | U | |
| Trichloroethene | 79-01-6 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Trichlorofluoromethane | 75-69-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |
| Vinyl acetate | 108-05-4 | 5.00 | 2.50 | 5.00 | 10.0 | U | Q4, Q7 |
| Vinyl chloride | 75-01-4 | 0.500 | 0.250 | 0.500 | 1.00 | U | |

MICROBAC®

**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

**Microbac Laboratories Inc., - Marietta, OH**

**CERTIFICATE OF ANALYSIS**

| | | | | | |
|---|---|---|---|---|---|
| **Client ID:** | TB-03 | | | **Collection Date:** | 07/23/2020 07:00 |
| **Laboratory ID:** | M0G1924-10 | | | **Prep Date:** | 07/29/2020 14:44 |
| **Matrix:** | Aqueous | **Prep Method:** | EPA 5030C | **Analyzed:** | 07/29/2020 14:44 |
| **Batch / Sequence:** | B0G1490 / S0G0504 | **Analytical Method:** | EPA 8260B | **Calibration:** | 20G0019 |
| **Instrument:** | HPMS8 | **Units:** | ug/L | **File ID:** | 8M435139.D |
| **Analyst:** | EEA | **Dilution:** | 1 | | |

| Surrogate | Recovery | Limits | Units | Q | Qualifier | |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane* | 99.1 | 80-119 | % Rec | | | |
| *1,2-Dichloroethane-d4* | 97.4 | 81-118 | % Rec | | | |
| *Toluene-d8* | 96.9 | 89-112 | % Rec | | | |
| *4-Bromofluorobenzene* | 98.6 | 85-114 | % Rec | | | |

MICROBAC®

**Laboratory Report Number: M0G1924**

**Client Project ID: Longhorn**

## Notes and Definitions

D: Dilution performed on sample.
D3: Dilution was performed due to high target analyte concentration.
J: The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
Q2: LCS recovery is above acceptance limits. However there is no impact on the reported value.
Q4: ICV recovery is above acceptance limits. The reported value is estimated.
Q7: CCV recovery is above acceptance limits. However there is no impact on the reported value.
U: The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.
ug/L: Micrograms per Liter
DL: Detection Limit
LOD: Limit of Detection
LOQ: Limit of Quantitation

01014436

E-3312

COC No. A 58462

158 Starlite Drive
Marietta, OH 45750

MICROBAC®

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Toll Free: 800-373-4071

Company Name: HDR

Project Contact: LYNN LUTZ | Contact Phone #:

Turn Around Requirements: | Location: KARNACK, TX

Project ID: 10097916

Sampler (print): J. MOORMAN & E. NORTH | Signature: Jude Moorman

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

| Sample I.D. No. | Comp | Grab | Date | Time | Matrix* | NUMBER OF CONTAINERS | Hold | VOCs | TOTAL # (LAB USE) | ADDITIONAL REQUIREMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| 47WW54 | | X | 07/23/2020 | 0935 | G.W. | 3 | | X | | |
| 47WW55 | | X | 07/23/2020 | 1045 | G.W. | 3 | | X | | |
| 47WW52 | | X | 07/23/2020 | 1145 | G.W. | 3 | | X | | |
| 47WW53 | | X | 07/23/2020 | 1230 | G.W. | 3 | | X | | |
| 47WW48 | | X | 07/23/2020 | 1400 | G.W. | 3 | | X | | |
| 47WW49 | | X | 07/23/2020 | 1455 | G.W. | 3 | | X | | HIGH TCE |
| 47WW50 | | X | 07/23/2020 | 1546 | G.W. | 3 | | X | | HIGH TCE |
| 47WW51 | | X | 07/23/2020 | 1657 | G.W. | 3 | | X | | HIGH TCE |
| EB-05 | | X | 07/23/2020 | 1750 | E.B. | 3 | | X | | |
| TB-03 | | | 07/23/2020 | 0700 | T.B. | 3 | | X | | |

M0G1924

HDR
Rec'd: 07/25/2020 09:45
By: Emily Shilling
Temp: 1.2 (Signature)

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Relinquished by: (Signature) | Date | Time | Received by: (Signature) |
|---|---|---|---|---|---|---|---|
| | 07/24/2020 | 1140 | Fedex | | | | Jimmy Lee Smith Jr 7/24/20 |
| Relinquished by: (Signature) | Date | Time | Received for Laboratory by: (Signature) | Date | Time | Remarks: | |
| | | | | | | | |

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

MICROBAC®

Work Order # MOG1924

COOLER TEMP >6° C LOG

| SAMPLE ID | Bottle 1 °C | Bottle 2 °C | Bottle 3 °C | Bottle 4 °C | Bottle 5 °C | Bottle 6 °C |
|---|---|---|---|---|---|---|
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ES 7-23-20

pH Lot # NA pH Exceptions

| SAMPLE ID | Bottle 1 | Bottle 2 | Bottle 3 | Bottle 4 | Bottle 5 | Bottle 6 |
|---|---|---|---|---|---|---|
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ES 7-24-20

PRESERVATIVE EXCEPTIONS
√ NONE
_ AS NOTED

Document Control # 1957
Last 04-10-2019

Issued to: Document Master File



E-3313

# Attachment 6

## Photograph Log

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**LHAAP-47 PSI, DPT-018 Soil Core**

**6/1/2020**

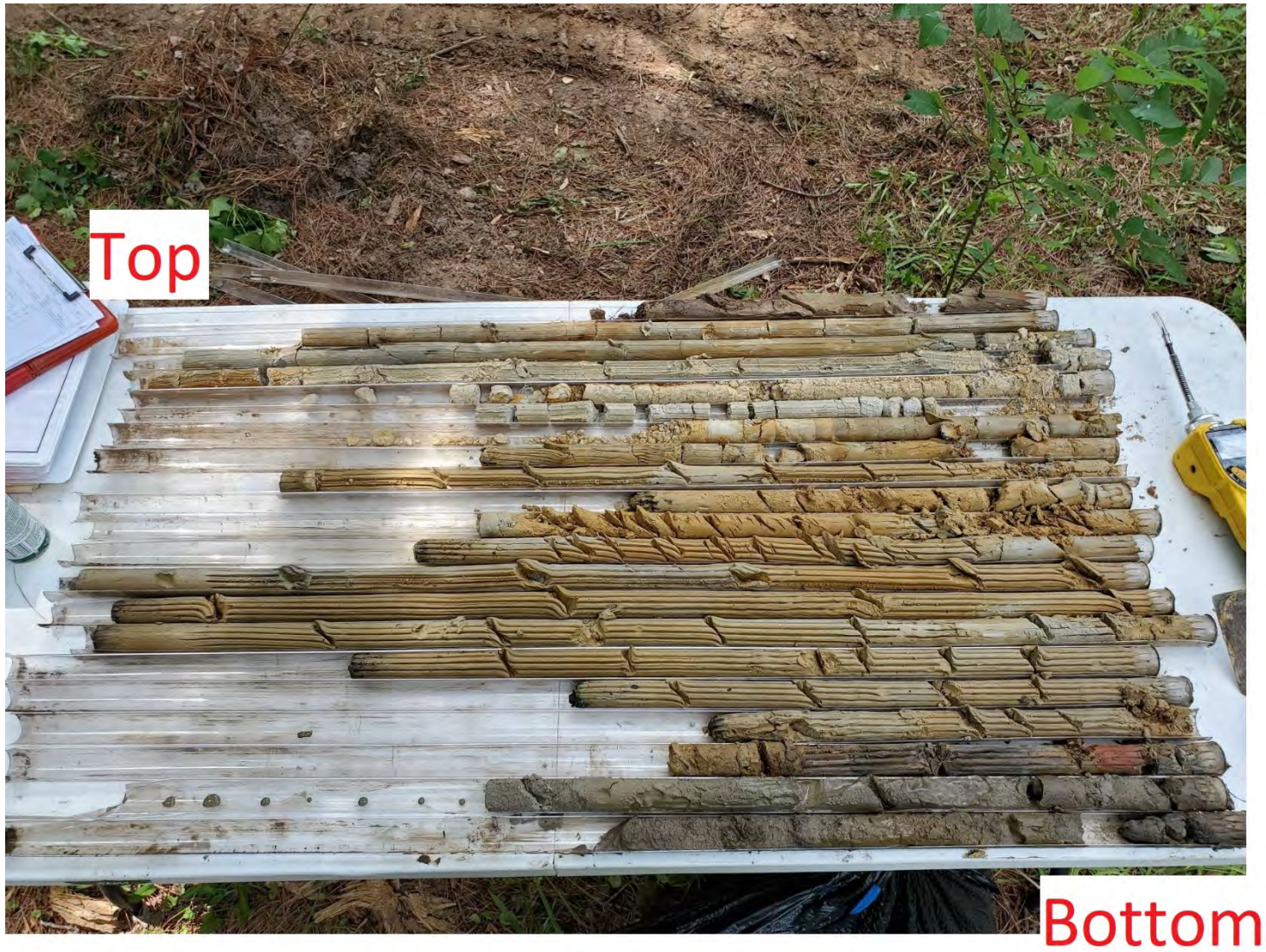
**LHAAP-47 PSI, DPT-019 Soil Core**

**6/1/2020**

F-3

**LHAAP-47 PSI, DPT-015 Soil Core**

**6/3/2020**



**LHAAP-47 PSI, DPT-022 Soil Core**

**6/5/2020**

F-5

**LHAAP-47 PSI, DPT-026 Soil Core**

**6/7/2020**

F-6

**LHAAP-47 PSI, DPT-033 Soil Core**

**6/13/2020**

**LHAAP-47 PSI, DPT-34 Soil Core**

**6/14/2020**

**Subject:** **Final Monthly Managers' Meeting (MMM), Longhorn Army Ammunition Plant (LHAAP)**
**Location of Meeting:** **Teleconference**
**Date of Meeting:** **17 February– 10:00 AM Central Standard Time (CST)**

**Attendees:**
Army BRAC: Rose M. Zeiler (RMZ)
USEPA: Lauren Poulos (LP)
AEC: Andrew Maly (AM), Laura Zographos
USACE: Aaron Williams (AW)
Bhate: Kim Nemmers (KN) and Scott Beesinger
TLI: Kyra Donnell (KD)

**Due to weather, poor cell phone coverage and lack of power, only a limited number of participants were able to attend.**

**Defense Environmental Restoration Program (DERP) Performance-Based Remediation (PBR) Update**

**EPA Action Item**: Determine if construction completion determination is made by the USEPA for Explanation of Significant Difference (ESD) remedial activities.

LP clarified the action item. RMZ said that construction complete was not requested just because of the ESD but also because of the in situ remedy for enhancing monitored natural attenuation. RMZ said that a construction completion was received for LHAAP-50 following soil removal and installation of the monitoring network. RMZ explained that, with the enhancement of the monitored natural attenuation via in situ bioremediation, the Army is wondering if another construction completion determination is needed. LP said that she has a call with headquarters to discuss and that she would confirm with RMZ after that call.

**Groundwater Treatment Plant (GWTP) –** SB said some ICT pumps had been installed. SB said that less pumps were installed than planned so that insulation of the ICT wells and piping within the GWTP system could be completed. A prolonged period of freezing conditions along with snow/ice was being experienced. SB said that the GWTP was not being operated the week of 15 February 2021 due to the weather. However, SB said that he hoped to possibly run it later this week, possibly Friday or Saturday, depending on weather. SB said that he also hopes to collect groundwater samples from LHAAP-04 or -46 or both during that same time. GWTP operations and continued sampling will be completed the following week to finish out February. SB said that he will continue with the ICT repairs in March along with some other GWTP repairs/maintenance to be completed.

**LHAAP-17**

KD explained that the most critical aspect of the work at LHAAP-17 is trying to address the accumulated water. KD explained that following the January 2021 MMM SB had collected a water sample from Area H, which is the excavation that had the perchlorate exceedance of the protective concentration level (PCL). KD said that the sample was collected on 25 January 2021. KD explained that the sample were allowed to settle as we previously discussed. KD explained that the analytical results from the January 2021 sample had perchlorate detected below the PCL. SB said that the water didn't have much sediment when he collected it from Area H. SB said that he did allow the sample to settle for 24 hours, but the water was not very turbid.

KD explained that the analytical data was being validated. KD said that a draft memorandum has been prepared to manage the impounded water based on this new data. For the area where

perchlorate originally exceeded the PCL (Area H), the plan is to collect the water in a frac tank and allow it to settle for the 24 hour period before discharging.

**Schedule Next Managers' Meeting**

The next MMM will be held on Wednesday, 17 March 2021 at 10:00 am CST via conference call.

Meeting concluded at approximately 11:25am CST.

**ACRONYM LIST**

| | |
|---|---|
| AEC | Army Environmental Command |
| AM | Andrew Maly |
| AP | April Palmie |
| APTIM | APTIM Federal Services, LLC |
| AR | Administrative Record |
| AW | Aaron Williams |
| Bhate | Bhate Environmental Associates, Inc. |
| BRAC | Base Realignment and Closure |
| CST | Central Standard Time |
| DERP | Defense Environmental Restoration Program |
| ESD | Explanation of Significant Difference |
| GWTP | Groundwater Treatment Plant |
| KD | Kyra Donnell |
| KN | Kim Nemmers |
| LHAAP | Longhorn Army Ammunition Plant |
| LP | Lauren Poulos |
| LUC | Land Use Control |
| MMM | Monthly Managers' Meeting |
| PBR | Performance-Based Remediation |
| PCL | Protective concentration level |
| RMZ | Rose M. Zeiler |
| SB | Scott Beesinger |
| TLI | TLI Solutions, Inc. |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |

**LHAAP Data Validated**
**February MMM**
**Validated Data**

**LHAAP-18/24**

*Annual Sampling – December 2020*
Perchlorate (6850)
Metals (6020A/7470A)
VOCs (8260C)
1,4- Dioxane (8270D SIM)

)

**LHAAP-18/24 Analytical Results - December 2020**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | AWD1_121520 12/15/20 | AWD3_120920 12/09/20 | AWD3_120920_a 12/09/20 | AWD4_121420 12/14/20 | 18CPTMW01SW_121020 12/10/20 | 18CPTMW03SW_121020 12/10/20 | 18CPTMW04_120920 12/09/20 | 18CPTMW04SW_120920 12/09/20 | 18CPTMW06_121420 12/14/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Package | | | HS20120808 | HS20120556 | HS20120556 | HS20120815 | HS20120617 | HS20120617 | HS20120556 | HS20120556 | HS20120815 |
| Well ID | | | AWD-1 | AWD-3 | AWD-3 | AWD-4 | 18CPTMW01SW | 18CPTMW03SW | 18CPTMW04 | 18CPTMW04SW | 18CPTMW06 |
| Aquifer Zone: | | | Shallow | Shallow | Shallow | Shallow | Wilcox | Wilcox | Wilcox | Wilcox | Wilcox |
| **Perchlorate (6850)** | | | | | | | | | | | |
| Perchlorate | µg/L | 17* | **25** | **7.56** | **6.33** | **102** | < 0.500 U | < 0.500 U | **126** | < 0.100 U | < 0.500 U |
| **Volatile Organic Compounds (8260C)** | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | µg/L | 110 | NA | < 1.0 U | < 0.5 U | < 0.5 U | < 50 U | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U |
| 1,1,1-Trichloroethane | µg/L | 200 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 14 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2-Trichloroethane | µg/L | 5 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethane | µg/L | 10,000 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethene | µg/L | 7 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloropropene | µg/L | 2.9 | NA | < 0.5 U | < 1.0 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U |
| 1,2,3-Trichlorobenzene | µg/L | 310 | NA | < 1.0 U | < 1.0 U | < 1.0 UJ | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 UJ |
| 1,2,3-Trichloropropane | µg/L | 0.041 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 70 | NA | < 1.0 U | < 1.0 U | < 1.0 UJ | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 UJ |
| 1,2,4-Trimethylbenzene | µg/L | 5,100 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U |
| 1,2-Dibromo-3-chloropropane | µg/L | 0.2 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dibromoethane | µg/L | 0.05 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dichlorobenzene | µg/L | 600 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2-Dichloroethane | µg/L | 5 | NA | **1.2** | **1.1** | < 0.5 U | < 25 U | **0.86 J** | **0.51 J** | < 0.5 U | < 0.5 U |
| 1,2-Dichloropropane | µg/L | 5 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,3,5-Trimethylbenzene | µg/L | 5,100 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,3-Dichlorobenzene | µg/L | 3,100 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,3-Dichloropropane | µg/L | 29 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U |
| 1,4-Dichlorobenzene | µg/L | 75 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 2,2-Dichloropropane | µg/L | 42 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 2-Butanone | µg/L | 61,000 | NA | < 1.0 U | < 1.0 U | < 1.0 UJ | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 UJ |
| 2-Chlorotoluene | µg/L | 2,000 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 50 U | < 0.5 U | < 1.0 U | < 1.0 U | < 0.5 U |
| 2-Hexanone | µg/L | 6,100 | NA | < 2.0 U | < 2.0 U | < 2.0 U | < 100 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U |
| 4-Chlorotoluene | µg/L | 2,000 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 4-Isopropyltoluene | µg/L | 10,000 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U |
| 4-Methyl-2-pentanone | µg/L | 8,200 | NA | < 2.0 U | < 2.0 U | < 2.0 U | < 100 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U |
| Acetone | µg/L | 92,000 | NA | < 1.0 U | < 1.0 U | < 1.0 UJ | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 UJ |
| Benzene | µg/L | 5 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | **0.82 J** | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromobenzene | µg/L | 2,000 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Bromochloromethane | µg/L | 4,100 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromodichloromethane | µg/L | 4.6 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromoform | µg/L | 36 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromomethane | µg/L | 140 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Carbon disulfide | µg/L | 10,000 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Carbon tetrachloride | µg/L | 5 | NA | < 0.5 U | **3.0** | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chlorobenzene | µg/L | 100 | NA | < 0.5 U | < 1.0 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U |
| Chloroethane | µg/L | 41,000 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloroform | µg/L | 1,000 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloromethane | µg/L | 220 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| cis-1,2-Dichloroethene | µg/L | 70 | NA | **6.9** | **6.5** | < 0.5 U | **63** | **4.1** | **7.5** | < 0.5 U | < 0.5 U |
| cis-1,3-Dichloropropene | µg/L | 5.3 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromochloromethane | µg/L | 34 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromomethane | µg/L | 380 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dichlorodifluoromethane | µg/L | 20,000 | NA | < 0.5 U | < 1.0 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U |
| Ethylbenzene | µg/L | 700 | NA | < 0.5 U | < 1.0 U | < 1.0 U | < 50 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U |
| Hexachlorobutadiene | µg/L | 20 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Isopropylbenzene | µg/L | 10,000 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 50 U | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U |
| m,p-Xylene | µg/L | 10,000** | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Methylene chloride | µg/L | 5 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| n-Butylbenzene | µg/L | 4,100 | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |

**LHAAP-18/24 Analytical Results - December 2020**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | AWD1_121520 12/15/20 | AWD3_120920 12/09/20 | AWD3_120920_a 12/09/20 | AWD4_121420 12/14/20 | 18CPTMW01SW_121020 12/10/20 | 18CPTMW03SW_121020 12/10/20 | 18CPTMW04_120920 12/09/20 | 18CPTMW04SW_120920 12/09/20 | 18CPTMW06_121420 12/14/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | µg/L | 4,100 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Naphthalene | µg/L | 2,000 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 25 U | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U |
| o-Xylene | µg/L | 10,000** | NA | < 1.0 U | < 0.5 U | < 0.5 U | < 50 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| sec-Butylbenzene | µg/L | 4,100 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 25 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U |
| Styrene | µg/L | 100 | NA | < 1.0 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U |
| tert-Butylbenzene | µg/L | 4,100 | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 50 U | < 1.0 U | < 0.5 U | < 1.0 U | < 0.5 U |
| Tetrachloroethene | µg/L | 5 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Toluene | µg/L | 1,000 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| trans-1,2-Dichloroethene | µg/L | 100 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | **1.2** | < 0.5 U | < 0.5 U | < 0.5 U |
| trans-1,3-Dichloropropene | µg/L | 29 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Trichloroethene | µg/L | 5 | NA | **140** | **140** | < 0.5 U | **42 J** | **31** | **200** | < 0.5 U | **1.4** |
| Trichlorofluoromethane | µg/L | 31,000 | NA | < 0.5 U | < 1.0 U | < 0.5 U | < 25 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Vinyl chloride | µg/L | 2 | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 25 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| **Metals (6020A)** | | | | | | | | | | | |
| Aluminum | mg/L | 100 | **3.71** | **0.253** | **0.315** | **6.79** | **0.0220** | **0.0721** | NA | **0.0420** | NA |
| Antimony | mg/L | 0.006 | **0.00133 J** | < 0.00100 U | < 0.00100 U | < 0.00100 U | < 0.00100 U | **0.000526 J** | NA | < 0.00100 U | NA |
| Arsenic | mg/L | 0.01 | **0.0190** | **0.000409 J** | **0.000430 J** | **0.00134 J** | **0.00969** | **0.00491 J** | NA | **0.00318 J** | NA |
| Barium | mg/L | 2 | **0.312** | **0.0449** | **0.0441** | **0.215** | **0.990** | **0.669** | NA | **0.767** | NA |
| Beryllium | mg/L | 0.004 | **0.000282 J** | < 0.000500 U | < 0.000500 U | **0.000367 J** | < 0.000500 U | < 0.000500 U | NA | < 0.000500 U | NA |
| Cadmium | mg/L | 0.005 | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | NA | < 0.000500 U | NA |
| Calcium | mg/L | NV | **2.97** | **1.06** | **0.909** | **8.08** | **30.5** | **169** | NA | **27.4** | NA |
| Chromium | mg/L | 0.1 | **0.0131** | **0.130** | **0.153** | **0.512** | **0.00561** | **0.0201** | NA | **0.0276** | NA |
| Cobalt | mg/L | 6.1 | **0.00918** | **0.000794 J** | **0.000688 J** | **0.00817** | **0.000225 J** | **0.00317 J** | NA | **0.00283 J** | NA |
| Copper | mg/L | 1.3 | **0.00259 J** | **0.00284 J** | **0.00251 J** | **0.0103** | < 0.00250 U | **0.00141 J** | NA | < 0.00250 U | NA |
| Iron | mg/L | NV | **8.31** | **0.743** | **0.855** | **9.12** | **50.0** | **6.57** | NA | **7.54** | NA |
| Lead | mg/L | 0.015 | **0.00220 J** | < 0.00100 U | < 0.00100 U | **0.00284 J** | < 0.00100 U | **0.00137 J** | NA | < 0.00100 U | NA |
| Magnesium | mg/L | NV | **3.69** | **0.639** | **0.604** | **5.61** | **19.6** | **20** | NA | **18.4** | NA |
| Manganese | mg/L | 1.1* | **0.279** | **0.0118 J** | **0.00861 J** | **0.0702** | **0.537** | **0.665** | NA | **0.198** | NA |
| Nickel | mg/L | 0.49* | **0.0190** | **0.00967** | **0.00959** | **0.228** | **0.00128 J** | **0.00517** | NA | **0.00261 J** | NA |
| Potassium | mg/L | NV | **3.353** | **0.743** | **0.684** | **0.899** | **11.5** | **109** | NA | **111** | NA |
| Selenium | mg/L | 0.05 | **0.00318J** | **0.00541** | **0.00520** | < 0.00250 U | < 0.00250 U | < 0.00250 U | NA | < 0.00250 U | NA |
| Silver | mg/L | 0.51 | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | NA | < 0.000500 U | NA |
| Sodium | mg/L | NV | **107** | **30.8** | **29.9** | **45.1** | **96.5** | **268** | NA | **147** | NA |
| Thallium | mg/L | 0.002 | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | **0.000273 J** | NA | < 0.000500 U | NA |
| Vanadium | mg/L | 0.72 | **0.00972** | **0.00133 J** | **0.00142 J** | **0.0168** | < 0.00100 U | < 0.00100 U | NA | < 0.00100 U | NA |
| Zinc | mg/L | 31 | **0.0129** | **0.00760 J** | **0.00453 J** | **0.0252** | **0.00399 J** | **0.0186** | NA | **0.0160** | NA |
| Mercury | mg/L | 0.002 | **0.0000310 J** | < 0.000100 U | < 0.000100 U | **0.000124 J** | < 0.000100 U | < 0.000100 U | NA | < 0.000100 U | NA |
| **1,4-Dioxane (8270D SIM)** | | | | | | | | | | | |
| 1,4-Dioxane | µg/L | 9.1* | **0.53 J** | NA | NA | < 0.010 U | < 0.010 U | **0.059** | **0.25** | **0.11** | < 0.010 U |

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected.

UB - considered a non-detect due to blank contamination

NV - No Value

*Perchlorate, manganese, 1,4-dioxane and nickel compared to the PCL

** Value is for total xylenes

PCL – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

a - duplicate sample

**LHAAP-18/24 Analytical Results - December 2020**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | 18CPTMW06_121420-a 12/14/20 | 18CPTMW07_121420 12/14/20 | 18CPTMW08SW_120820 12/08/20 | 18CPTMW08SW_120820_a 12/08/20 | 18CPTMW08DW_120820 12/08/20 | 18CPTMW10SW_121620 12/16/20 | 18CPTMW10DW_121620 12/16/20 | 18CPTMW12SW_120920 12/09/20 |
|---|---|---|---|---|---|---|---|---|---|---|
| Lab Package | | | HS20120815 | HS20120815 | HS20120486 | HS20120486 | HS20120486 | HS20120908 | HS20120908 | HS20120556 |
| Well ID | | | 18CPTMW06 | 18CPTMW07 | 18CPTMW08SW | 18CPTMW08SW | 18CPTMW08DW | 18CPTMW10SW | 18CPTMW10DW | 18CPTMW12SW |
| Aquifer Zone: | | | Wilcox | Wilcox | Wilcox | Wilcox | Wilcox | Wilcox | Wilcox | Wilcox |
| **Perchlorate (6850)** | | | | | | | | | | |
| Perchlorate | µg/L | 17* | < 0.500 U | **0.224** | **18,000** | **18,400** | **2,640** | < 0.250 U | **0.924** | **0.151 J** |
| **Volatile Organic Compounds (8260C)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | µg/L | 110 | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| 1,1,1-Trichloroethane | µg/L | 200 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 14 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2-Trichloroethane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethane | µg/L | 10,000 | < 0.5 U | < 0.5 U | **3.2** | **3.3** | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethene | µg/L | 7 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloropropene | µg/L | 2.9 | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2,3-Trichlorobenzene | µg/L | 310 | < 1.0 UJ | < 1.0 UJ | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,3-Trichloropropane | µg/L | 0.041 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 70 | < 1.0 UJ | < 1.0 UJ | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trimethylbenzene | µg/L | 5,100 | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| 1,2-Dibromo-3-chloropropane | µg/L | 0.2 | < 0.5 U | < 0.5 U | < 0.5 UJ | < 0.5 UJ | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dibromoethane | µg/L | 0.05 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dichlorobenzene | µg/L | 600 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2-Dichloroethane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dichloropropane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,3,5-Trimethylbenzene | µg/L | 5,100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| 1,3-Dichlorobenzene | µg/L | 3,100 | < 1.0 U | < 1.0 U | **0.57 J** | **0.56 J** | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,3-Dichloropropane | µg/L | 29 | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| 1,4-Dichlorobenzene | µg/L | 75 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 2,2-Dichloropropane | µg/L | 42 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| 2-Butanone | µg/L | 61,000 | < 1.0 UJ | < 1.0 UJ | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 2-Chlorotoluene | µg/L | 2,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| 2-Hexanone | µg/L | 6,100 | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | NA | < 2.0 U | < 2.0 U | < 2.0 U |
| 4-Chlorotoluene | µg/L | 2,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| 4-Isopropyltoluene | µg/L | 10,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| 4-Methyl-2-pentanone | µg/L | 8,200 | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | NA | < 2.0 U | < 2.0 U | < 2.0 U |
| Acetone | µg/L | 92,000 | < 1.0 UJ | < 1.0 UJ | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| Benzene | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromobenzene | µg/L | 2,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| Bromochloromethane | µg/L | 4,100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromodichloromethane | µg/L | 4.6 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromoform | µg/L | 36 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromomethane | µg/L | 140 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Carbon disulfide | µg/L | 10,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| Carbon tetrachloride | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Chlorobenzene | µg/L | 100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloroethane | µg/L | 41,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloroform | µg/L | 1,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloromethane | µg/L | 220 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| cis-1,2-Dichloroethene | µg/L | 70 | < 0.5 U | < 0.5 U | **9.8** | **9.8** | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| cis-1,3-Dichloropropene | µg/L | 5.3 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromochloromethane | µg/L | 34 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromomethane | µg/L | 380 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Dichlorodifluoromethane | µg/L | 20,000 | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Ethylbenzene | µg/L | 700 | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Hexachlorobutadiene | µg/L | 20 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 UJ | < 1.0 UJ | < 1.0 U |
| Isopropylbenzene | µg/L | 10,000 | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| m,p-Xylene | µg/L | 10,000** | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| Methylene chloride | µg/L | 5 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |
| n-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U |

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | 18CPTMW06_121420-a 12/14/20 | 18CPTMW07_121420 12/14/20 | 18CPTMW08SW_120820 12/08/20 | 18CPTMW08SW_120820_a 12/08/20 | 18CPTMW08DW_120820 12/08/20 | 18CPTMW10SW_121620 12/16/20 | 18CPTMW10DW_121620 12/16/20 | 18CPTMW12SW_120920 12/09/20 |
|---|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | µg/L | 4,100 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| Naphthalene | µg/L | 2,000 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| o-Xylene | µg/L | 10,000** | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| sec-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Styrene | µg/L | 100 | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| tert-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| Tetrachloroethene | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Toluene | µg/L | 1,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| trans-1,2-Dichloroethene | µg/L | 100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| trans-1,3-Dichloropropene | µg/L | 29 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| Trichloroethene | µg/L | 5 | **1.3** | **1.7** | **35** | **36** | NA | **0.70 J** | **1.1** | **1.3** |
| Trichlorofluoromethane | µg/L | 31,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U |
| Vinyl chloride | µg/L | 2 | < 0.5 U | < 0.5 U | **2.3** | **2.4** | NA | < 0.5 U | < 0.5 U | < 0.5 U |
| **Metals (6020A)** | | | | | | | | | | |
| Aluminum | mg/L | 100 | NA | NA | NA | NA | NA | NA | **0.204** | **0.0268** |
| Antimony | mg/L | 0.006 | NA | NA | NA | NA | NA | NA | < 0.00100 U | < 0.00100 U |
| Arsenic | mg/L | 0.01 | NA | NA | NA | NA | NA | NA | **0.00200 J** | **0.000822 J** |
| Barium | mg/L | 2 | NA | NA | NA | NA | NA | NA | **0.112** | **0.998** |
| Beryllium | mg/L | 0.004 | NA | NA | NA | NA | NA | NA | < 0.000500 U | < 0.000500 U |
| Cadmium | mg/L | 0.005 | NA | NA | NA | NA | NA | NA | < 0.000500 U | **< 0.000256 J** |
| Calcium | mg/L | NV | NA | NA | NA | NA | NA | NA | **9.64** | **75.8** |
| Chromium | mg/L | 0.1 | NA | NA | NA | NA | NA | NA | **0.00651** | **0.00506** |
| Cobalt | mg/L | 6.1 | NA | NA | NA | NA | NA | NA | **0.000494 J** | **0.00250 J** |
| Copper | mg/L | 1.3 | NA | NA | NA | NA | NA | NA | **0.00299 J** | < 0.00250 U |
| Iron | mg/L | NV | NA | NA | NA | NA | NA | NA | **3.28** | **0.559** |
| Lead | mg/L | 0.015 | NA | NA | NA | NA | NA | NA | **0.00163 J** | < 0.00100 U |
| Magnesium | mg/L | NV | NA | NA | NA | NA | NA | NA | **5.31** | **44.6** |
| Manganese | mg/L | 1.1* | NA | NA | NA | NA | NA | NA | **0.0679** | **0.719** |
| Nickel | mg/L | 0.49* | NA | NA | NA | NA | NA | NA | **0.00188 J** | **0.00954** |
| Potassium | mg/L | NV | NA | NA | NA | NA | NA | NA | **83.6** | **66.1** |
| Selenium | mg/L | 0.05 | NA | NA | NA | NA | NA | NA | < 0.00250 U | < 0.00250 U |
| Silver | mg/L | 0.51 | NA | NA | NA | NA | NA | NA | < 0.000500 U | < 0.000500 U |
| Sodium | mg/L | NV | NA | NA | NA | NA | NA | NA | **171 J** | **270** |
| Thallium | mg/L | 0.002 | NA | NA | NA | NA | NA | NA | < 0.000500 U | < 0.000500 U |
| Vanadium | mg/L | 0.72 | NA | NA | NA | NA | NA | NA | **0.00133 J** | < 0.00100 U |
| Zinc | mg/L | 31 | NA | NA | NA | NA | NA | NA | **0.0147** | **0.0115** |
| Mercury | mg/L | 0.002 | NA | NA | NA | NA | NA | NA | < 0.000100 U | < 0.000100 U |
| **1,4-Dioxane (8270D SIM)** | | | | | | | | | | |
| 1,4-Dioxane | µg/L | 9.1* | < 0.010 U | **0.074** | **0.073 J** | **0.10 J** | **0.07** | < 0.010 U | NA | **0.043** |

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected.

UB - considered a non-detect due to blank contamination

NV - No Value

*Perchlorate, manganese, 1,4-dioxane and nickel compared to the PCL

** Value is for total xylenes

PCL – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential

a - duplicate sample

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | 18CPTMW12DW_120920 12/09/20 | 18CPTMW14_121520 12/15/20 | 18CPTMW15_120820 12/08/20 | 18CPTMW16_121720 12/17/20 | 18CPTMW18_121520 12/15/20 | 18CPTMW19_121020 12/10/20 | 18CPTMW22R_121020 12/10/20 | 18CPTMW22SW_121020 12/10/20 | 18CPTMW23_120820 12/08/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Package | | | HS20120556 | HS20120808 | HS20120486 | HS20121018 | HS20120808 | HS20120617 | HS20120617 | HS20120617 | HS20120486 |
| Well ID | | | 18CPTMW12DW | 18CPTMW14 | 18CPTMW15 | 18CPTMW16 | 18CPTMW18 | 18CPTMW19 | 18CPTMW22R | 18CPTMW22SW | 18CPTMW23 |
| Aquifer Zone: | | | Wilcox | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Wilcox | Shallow |
| **Perchlorate (6850)** | | | | | | | | | | | |
| Perchlorate | µg/L | 17* | **0.156 J** | **2,800** | **1.31** | < 0.100 U | **0.126 J** | **2.79** | **0.0354 J** | **5,610** | **81** |
| **Volatile Organic Compounds (8260C)** | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | µg/L | 110 | < 0.5 U | < 5.0 U | < 0.5 U | NA | < 1.0 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U |
| 1,1,1-Trichloroethane | µg/L | 200 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 14 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2-Trichloroethane | µg/L | 5 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethane | µg/L | 10,000 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **0.42 J** |
| 1,1-Dichloroethene | µg/L | 7 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **3.3** |
| 1,1-Dichloropropene | µg/L | 2.9 | < 1.0 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U |
| 1,2,3-Trichlorobenzene | µg/L | 310 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,3-Trichloropropane | µg/L | 0.041 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 70 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trimethylbenzene | µg/L | 5,100 | < 0.5 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U |
| 1,2-Dibromo-3-chloropropane | µg/L | 0.2 | < 0.5 U | < 2.5 U | < 0.5 UJ | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 UJ |
| 1,2-Dibromoethane | µg/L | 0.05 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dichlorobenzene | µg/L | 600 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2-Dichloroethane | µg/L | 5 | < 0.5 U | **5.5** | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **110** |
| 1,2-Dichloropropane | µg/L | 5 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,3,5-Trimethylbenzene | µg/L | 5,100 | < 0.5 U | < 5.0 U | < 0.5 U | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U |
| 1,3-Dichlorobenzene | µg/L | 3,100 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,3-Dichloropropane | µg/L | 29 | < 0.5 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U |
| 1,4-Dichlorobenzene | µg/L | 75 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 2,2-Dichloropropane | µg/L | 42 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 2-Butanone | µg/L | 61,000 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 2-Chlorotoluene | µg/L | 2,000 | < 0.5 U | < 2.5 U | < 1.0 U | NA | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U |
| 2-Hexanone | µg/L | 6,100 | < 2.0 U | < 10 U | < 2.0 U | NA | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U |
| 4-Chlorotoluene | µg/L | 2,000 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 4-Isopropyltoluene | µg/L | 10,000 | < 0.5 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U |
| 4-Methyl-2-pentanone | µg/L | 8,200 | < 2.0 U | < 10 U | < 2.0 U | NA | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U |
| Acetone | µg/L | 92,000 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Benzene | µg/L | 5 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **0.74 J** |
| Bromobenzene | µg/L | 2,000 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Bromochloromethane | µg/L | 4,100 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromodichloromethane | µg/L | 4.6 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromoform | µg/L | 36 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromomethane | µg/L | 140 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Carbon disulfide | µg/L | 10,000 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Carbon tetrachloride | µg/L | 5 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chlorobenzene | µg/L | 100 | < 1.0 U | < 5.0 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U |
| Chloroethane | µg/L | 41,000 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloroform | µg/L | 1,000 | < 0.5 U | **11** | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloromethane | µg/L | 220 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| cis-1,2-Dichloroethene | µg/L | 70 | < 0.5 U | **15** | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **190** |
| cis-1,3-Dichloropropene | µg/L | 5.3 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromochloromethane | µg/L | 34 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromomethane | µg/L | 380 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dichlorodifluoromethane | µg/L | 20,000 | < 1.0 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U |
| Ethylbenzene | µg/L | 700 | < 1.0 U | < 5.0 U | < 0.5 U | NA | < 1.0 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U |
| Hexachlorobutadiene | µg/L | 20 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Isopropylbenzene | µg/L | 10,000 | < 0.5 U | < 5.0 U | < 1.0 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U |
| m,p-Xylene | µg/L | 10,000** | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Methylene chloride | µg/L | 5 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| n-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | 18CPTMW12DW_120920 12/09/20 | 18CPTMW14_121520 12/15/20 | 18CPTMW15_120820 12/08/20 | 18CPTMW16_121720 12/17/20 | 18CPTMW18_121520 12/15/20 | 18CPTMW19_121020 12/10/20 | 18CPTMW22R_121020 12/10/20 | 18CPTMW22SW_121020 12/10/20 | 18CPTMW23_120820 12/08/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | µg/L | 4,100 | < 0.5 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U |
| Naphthalene | µg/L | 2,000 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U | < 1.0 U |
| o-Xylene | µg/L | 10,000** | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U |
| sec-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 2.5 U | < 0.5 U | NA | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U | < 1.0 U |
| Styrene | µg/L | 100 | < 1.0 U | < 5.0 U | < 1.0 U | NA | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U |
| tert-Butylbenzene | µg/L | 4,100 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U |
| Tetrachloroethene | µg/L | 5 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Toluene | µg/L | 1,000 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| trans-1,2-Dichloroethene | µg/L | 100 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **1.3** |
| trans-1,3-Dichloropropene | µg/L | 29 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Trichloroethene | µg/L | 5 | < 0.5 U | **940** | **2.1** | NA | < 0.5 U | < 0.5 U | < 0.5 U | **0.58 J** | **1700** |
| Trichlorofluoromethane | µg/L | 31,000 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 1.0 U | < 1.0 U | < 0.5 U | < 1.0 U |
| Vinyl chloride | µg/L | 2 | < 0.5 U | < 2.5 U | < 0.5 U | NA | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| **Metals (6020A)** | | | | | | | | | | | |
| Aluminum | mg/L | 100 | **0.0128** | **0.295** | NA | NA | **0.0220** | NA | **1.51** | **0.207** | NA |
| Antimony | mg/L | 0.006 | < 0.00100 U | < 0.00100 U | NA | NA | < 0.00100 U | NA | < 0.00100 U | **0.000423 J** | NA |
| Arsenic | mg/L | 0.01 | **0.00336 J** | **0.00176 J** | NA | NA | **0.000992 J** | NA | **0.000926 J** | **0.00249 J** | NA |
| Barium | mg/L | 2 | **0.139** | **4.10** | NA | NA | **0.678** | NA | **0.0459** | **0.134** | NA |
| Beryllium | mg/L | 0.004 | < 0.000500 U | < 0.000500 U | NA | NA | < 0.000500 U | NA | **0.000302 J** | < 0.000500 U | NA |
| Cadmium | mg/L | 0.005 | < 0.000500 U | **0.000284 J** | NA | NA | **0.000268 J** | NA | < 0.000500 U | < 0.000500 U | NA |
| Calcium | mg/L | NV | **7.32** | **458** | NA | NA | **306** | NA | **0.571** | **17.0** | NA |
| Chromium | mg/L | 0.1 | **0.00340 J** | **0.0240** | NA | NA | **0.00150 J** | NA | **0.00126 J** | **0.0232** | NA |
| Cobalt | mg/L | 6.1 | < 0.000500 U | **0.00711** | NA | NA | **0.0163** | NA | **0.00618** | < 0.000500 U | NA |
| Copper | mg/L | 1.3 | < 0.00250 U | **0.00103 J** | NA | NA | < 0.00250 U | NA | **0.00156 J** | < 0.00250 U | NA |
| Iron | mg/L | NV | **1.28** | **0.675** | NA | NA | **0.712** | NA | **1.36** | **0.0460 J** | NA |
| Lead | mg/L | 0.015 | < 0.00100 U | < 0.00100 U | NA | NA | < 0.00100 U | NA | **0.000753 J** | < 0.00100 U | NA |
| Magnesium | mg/L | NV | **5.88** | **116** | NA | NA | **218** | NA | **0.592** | **0.346** | NA |
| Manganese | mg/L | 1.1* | **0.0453** | **0.308** | NA | NA | **2.36** | NA | **0.0475** | **0.00557** | NA |
| Nickel | mg/L | 0.49* | < 0.00100 U | **0.00471 J** | NA | NA | **0.0169** | NA | **0.00213 J** | **0.00110 J** | NA |
| Potassium | mg/L | NV | **83.5** | **12.0** | NA | NA | **2.65** | NA | **0.214** | **335** | NA |
| Selenium | mg/L | 0.05 | < 0.00250 U | < 0.00250 U | NA | NA | < 0.00250 U | NA | < 0.00250 U | < 0.00250 U | NA |
| Silver | mg/L | 0.51 | < 0.000500 U | < 0.000500 U | NA | NA | < 0.000500 U | NA | < 0.000500 U | < 0.000500 U | NA |
| Sodium | mg/L | NV | **210** | **586** | NA | NA | **814** | NA | **24.5** | **330** | NA |
| Thallium | mg/L | 0.002 | < 0.000500 U | < 0.000500 U | NA | NA | < 0.000500 U | NA | < 0.000500 U | < 0.000500 U | NA |
| Vanadium | mg/L | 0.72 | < 0.00100 U | **0.000944 J** | NA | NA | < 0.00100 U | NA | **0.00223 J** | **0.000656 J** | NA |
| Zinc | mg/L | 31 | < 0.00250 U | **0.00648** | NA | NA | **0.0173** | NA | **0.00651** | **0.00263 J** | NA |
| Mercury | mg/L | 0.002 | < 0.000100 U | < 0.000100 U | NA | NA | < 0.000100 U | NA | **0.0000310 J** | < 0.000100 U | NA |
| **1,4-Dioxane (8270D SIM)** | | | | | | | | | | | |
| 1,4-Dioxane | µg/L | 9.1* | **0.039** | **0.13** | < 0.010 U | **0.13** | < 0.010 U | < 0.010 U | < 0.010 U | **0.066** | **0.94** |

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected.

UB - considered a non-detect due to blank contamination

NV - No Value

*Perchlorate, manganese, 1,4-dioxane and nickel compared to the PCL

** Value is for total xylenes

PCL – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential

a - duplicate sample

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | 18CPTMW24_121420 12/14/20 | 18WW02_121620 12/16/20 | 18WW06_121620 12/16/20 | 18WW08_121420 12/14/20 | 18WW10_121620 12/1620 | 18WW17_121020 12/10/20 | 18WW22_121520 12/15/20 | 18WW24_120820 12/08/20 | CO3_121520 12/15/20 | CO8_121720 12/17/20 | CO9_121720 12/17/20 | CO9_121720-a 12/17/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Package | | | HS20120815 | HS20120908 | HS20120908 | HS20120815 | HS20120908 | HS20120617 | HS20120808 | HS20120486 | HS20120808 | HS20121018 | HS20121018 | HS20121018 |
| Well ID | | | 18CPTMW24 | 18WW02 | 18WW06 | 18WW08 | 18WW10 | 18WW17 | 18WW22 | 18WW24 | C-03 | C-08 | C-09 | C-09 |
| Aquifer Zone: | | | Shallow | Wilcox | Wilcox | Shallow | Shallow | Wilcox | Shallow | Shallow | Wilcox | Shallow | Shallow | Shallow |
| **Perchlorate (6850)** | | | | | | | | | | | | | | |
| Perchlorate | µg/L | 17* | **6.24** | < 0.0500 U | < 0.250 U | **1,790** | < 0.250 U | **77,900** | **0.417** | **0.413 J** | **0.970 J** | < 0.500 U | < 0.500 U | < 0.500 U |
| **Volatile Organic Compounds (8260C)** | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | µg/L | 110 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,1-Trichloroethane | µg/L | 200 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 14 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1,2-Trichloroethane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethane | µg/L | 10,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethene | µg/L | 7 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloropropene | µg/L | 2.9 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2,3-Trichlorobenzene | µg/L | 310 | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,3-Trichloropropane | µg/L | 0.041 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 70 | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trimethylbenzene | µg/L | 5,100 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dibromo-3-chloropropane | µg/L | 0.2 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 UJ | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dibromoethane | µg/L | 0.05 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dichlorobenzene | µg/L | 600 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,2-Dichloroethane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,2-Dichloropropane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,3,5-Trimethylbenzene | µg/L | 5,100 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,3-Dichlorobenzene | µg/L | 3,100 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 1,3-Dichloropropane | µg/L | 29 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 1,4-Dichlorobenzene | µg/L | 75 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 2,2-Dichloropropane | µg/L | 42 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 2-Butanone | µg/L | 61,000 | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 2-Chlorotoluene | µg/L | 2,000 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 2-Hexanone | µg/L | 6,100 | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U |
| 4-Chlorotoluene | µg/L | 2,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| 4-Isopropyltoluene | µg/L | 10,000 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| 4-Methyl-2-pentanone | µg/L | 8,200 | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U |
| Acetone | µg/L | 92,000 | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Benzene | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromobenzene | µg/L | 2,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Bromochloromethane | µg/L | 4,100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromodichloromethane | µg/L | 4.6 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromoform | µg/L | 36 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Bromomethane | µg/L | 140 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Carbon disulfide | µg/L | 10,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Carbon tetrachloride | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chlorobenzene | µg/L | 100 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloroethane | µg/L | 41,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloroform | µg/L | 1,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Chloromethane | µg/L | 220 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| cis-1,2-Dichloroethene | µg/L | 70 | **20** | < 0.5 U | < 0.5 U | **1.7** | < 0.5 U | **1.3** | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| cis-1,3-Dichloropropene | µg/L | 5.3 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromochloromethane | µg/L | 34 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dibromomethane | µg/L | 380 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Dichlorodifluoromethane | µg/L | 20,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Ethylbenzene | µg/L | 700 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Hexachlorobutadiene | µg/L | 20 | < 1.0 U | < 1.0 UJ | < 1.0 UJ | < 1.0 U | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 UJ | < 1.0 UJ | < 1.0 UJ |
| Isopropylbenzene | µg/L | 10,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| m,p-Xylene | µg/L | 10,000** | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| Methylene chloride | µg/L | 5 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |
| n-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U |

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | 18CPTMW24_121420 12/14/20 | 18WW02_121620 12/16/20 | 18WW06_121620 12/16/20 | 18WW08_121420 12/14/20 | 18WW10_121620 12/1620 | 18WW17_121020 12/10/20 | 18WW22_121520 12/15/20 | 18WW24_120820 12/08/20 | CO3_121520 12/15/20 | CO8_121720 12/17/20 | CO9_121720 12/17/20 | CO9_121720-a 12/17/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | µg/L | 4,100 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Naphthalene | µg/L | 2,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| o-Xylene | µg/L | 10,000** | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| sec-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Styrene | µg/L | 100 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| tert-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Tetrachloroethene | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Toluene | µg/L | 1,000 | < 0.5 U | < 0.5 U | **9.7** | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| trans-1,2-Dichloroethene | µg/L | 100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| trans-1,3-Dichloropropene | µg/L | 29 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Trichloroethene | µg/L | 5 | **6.1** | < 0.5 U | < 0.5 U | **3.8** | < 0.5 U | **50** | < 0.5 U | < 0.5 U | < 0.5 U | **1.5** | < 0.5 U | < 0.5 U |
| Trichlorofluoromethane | µg/L | 31,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 0.5 U | < 0.5 U | < 0.5 U |
| Vinyl chloride | µg/L | 2 | **9.3** | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U |
| **Metals (6020A)** | | | | | | | | | | | | | | |
| Aluminum | mg/L | 100 | **0.0443** | **0.434** | NA | NA | NA | **0.0166 J** | **0.130** | **0.151 J** | NA | **0.0891** | **0.110** | **0.114** |
| Antimony | mg/L | 0.006 | < 0.00100 U | < 0.00100 U | NA | NA | NA | < 0.00200 U | < 0.00100 U | < 0.00100 U | NA | < 0.00100 U | < 0.00100 U | < 0.00100 U |
| Arsenic | mg/L | 0.01 | **0.00649** | **0.000549 J** | NA | NA | NA | < 0.00200 U | **0.00156 J** | **0.000759 J** | NA | < 0.00100 U | **0.000526 J** | **0.000553 J** |
| Barium | mg/L | 2 | **9.76** | **0.0392** | NA | NA | NA | **3.22** | **0.132** | **0.0505** | NA | **5.11** | **1.37** | **1.39** |
| Beryllium | mg/L | 0.004 | < 0.000500 U | < 0.000500 U | NA | NA | NA | < 0.00100 U | < 0.000500 U | **0.00114 J** | NA | < 0.000500 U | < 0.000500 U | < 0.000500 U |
| Cadmium | mg/L | 0.005 | < 0.000500 U | < 0.000500 U | NA | NA | NA | **0.000559 J** | < 0.000500 U | **0.000252 J** | NA | < 0.000500 U | **0.000227 J** | **0.000240 J** |
| Calcium | mg/L | NV | **381** | **7.02** | NA | NA | NA | **310** | **25.8** | **46.1** | NA | **260** | **414** | **427** |
| Chromium | mg/L | 0.1 | **0.00112 J** | **0.0131** | NA | NA | NA | **0.0310** | **0.0176** | < 0.00100 U | NA | < 0.00100 U | **0.00595** | **0.00665** |
| Cobalt | mg/L | 6.1 | **0.00295 J** | **0.000225 J** | NA | NA | NA | **0.0234** | **0.000246 J** | **0.0144** | NA | **0.00356 J** | **0.00192 J** | **0.00186 J** |
| Copper | mg/L | 1.3 | < 0.00250 U | **0.00408 J** | NA | NA | NA | **0.487** | < 0.00250 U | **0.00210 J** | NA | < 0.00250 U | < 0.00250 U | < 0.00250 U |
| Iron | mg/L | NV | **6.97** | **1.20** | NA | NA | NA | **5.59** | **0.0323 J** | **0.223** | NA | **0.464** | **0.217** | **0.224** |
| Lead | mg/L | 0.015 | < 0.00100 U | **0.000627 J** | NA | NA | NA | **0.00199 J** | < 0.00100 U | < 0.00100 U | NA | < 0.00100 U | < 0.00100 U | < 0.00100 U |
| Magnesium | mg/L | NV | **248** | **1.26** | NA | NA | NA | **214** | **4.82** | **51.2** | NA | **149** | **216** | **222** |
| Manganese | mg/L | 1.1* | **0.514** | **0.0866** | NA | NA | NA | **0.568** | 0.00177 UB | **5.13** | NA | **0.979** | **0.538** | **0.537** |
| Nickel | mg/L | 0.49* | **0.00834** | **0.00933** | NA | NA | NA | **1.25** | < 0.00100 U | **0.196** | NA | **0.00295 J** | **0.0756** | **0.0742** |
| Potassium | mg/L | NV | **2.17** | **2.02** | NA | NA | NA | **1.35** | **4.90** | **0.535** | NA | **1.82** | **1.46** | **1.48** |
| Selenium | mg/L | 0.05 | < 0.00250 U | < 0.00250 U | NA | NA | NA | < 0.00500 U | < 0.00250 U | < 0.00250 U | NA | < 0.00250 U | < 0.00250 U | < 0.00250 U |
| Silver | mg/L | 0.51 | < 0.000500 U | < 0.000500 U | NA | NA | NA | < 0.00100 U | < 0.000500 U | < 0.000500 U | NA | < 0.000500 U | < 0.000500 U | < 0.000500 U |
| Sodium | mg/L | NV | **943** | **27.1** | NA | NA | NA | **1100** | **52.5** | **755** | NA | **717** | **592** | **619** |
| Thallium | mg/L | 0.002 | < 0.000500 U | < 0.000500 U | NA | NA | NA | < 0.00100 U | < 0.000500 U | < 0.000500 U | NA | < 0.000500 U | < 0.000500 U | < 0.000500 U |
| Vanadium | mg/L | 0.72 | **0.000913 J** | **0.00207 J** | NA | NA | NA | < 0.00200 U | **0.0191** | < 0.00100 U | NA | < 0.00100 U | < 0.00100 U | < 0.00100 U |
| Zinc | mg/L | 31 | **0.00725** | **0.00230 J** | NA | NA | NA | **3.31** | < 0.00250 U | **0.0762 J** | NA | **0.00710** | **0.00969** | **0.00895** |
| Mercury | mg/L | 0.002 | < 0.000100 U | < 0.000100 U | NA | NA | NA | **0.000125 J** | < 0.000100 U | < 0.000100 U | NA | < 0.000100 U | < 0.000100 U | < 0.000100 U |
| **1,4-Dioxane (8270D SIM)** | | | | | | | | | | | | | | |
| 1,4-Dioxane | µg/L | 9.1* | < 0.010 U | < 0.010 U | < 0.010 U | **0.11** | **0.082** | NA | < 0.010 U | NA | < 0.010 U | **0.053** | NA | NA |

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected.

UB - considered a non-detect due to blank contamination

NV - No Value

*Perchlorate, manganese, 1,4-dioxane and nickel compared to the PCL

** Value is for total xylenes

PCL – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential

a - duplicate sample

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | MW2_121020 12/10/20 | MW3_121520 12/15/20 | MW3_121520-a 12/15/20 | MW5_120820 12/08/20 | MW7_120920 12/09/20 | MW8_121720 12/17/20 | MW9_121620 12/16/20 | MW10_120920 12/09/20 | MW14_121520 12/15/20 | MW16_120820 12/08/20 | MW17_121620 12/16/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Package | | | HS20120617 | HS20120808 | HS20120808 | HS20120486 | HS20120556 | HS20121018 | HS20120908 | HS20120556 | HS20120808 | HS20120486 | HS20120908 |
| Well ID | | | MW-2 | MW-3 | MW-3 | MW-5 | MW-7 | MW-8 | MW-9 | MW-10 | MW-14 | MW-16 | MW-17 |
| Aquifer Zone: | | | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Wilcox | Shallow | Shallow |
| **Perchlorate (6850)** | | | | | | | | | | | | | |
| Perchlorate | µg/L | 17* | < 0.500 U | **16,200** | **16,000** | **23,200** | **14,000** | **2,480** | **254** | < 0.100 U | **73,800** | **1.07** | < 0.100 U |
| **Volatile Organic Compounds (8260C)** | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | µg/L | 110 | < 100 U | < 1.0 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 1,1,1-Trichloroethane | µg/L | 200 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 1,1,2,2-Tetrachloroethane | µg/L | 14 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 1,1,2-Trichloroethane | µg/L | 5 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 1,1-Dichloroethane | µg/L | 10,000 | < 50 U | **4.4** | **4.3** | **2.7** | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **13** | **1.2** | NA |
| 1,1-Dichloroethene | µg/L | 7 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **47** | **5.2** | NA |
| 1,1-Dichloropropene | µg/L | 2.9 | < 50 U | < 0.5 U | < 1.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 10 U | < 0.5 U | NA |
| 1,2,3-Trichlorobenzene | µg/L | 310 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 1,2,3-Trichloropropane | µg/L | 0.041 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 1,2,4-Trichlorobenzene | µg/L | 70 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 1,2,4-Trimethylbenzene | µg/L | 5,100 | < 100 U | < 1.0 U | < 0.5 U | < 1.0 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 5.0 U | < 1.0 U | NA |
| 1,2-Dibromo-3-chloropropane | µg/L | 0.2 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 UJ | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 UJ | NA |
| 1,2-Dibromoethane | µg/L | 0.05 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 1,2-Dichlorobenzene | µg/L | 600 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 1,2-Dichloroethane | µg/L | 5 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | **26** | **1.8** | < 0.5 U | < 0.5 U | **43** | **38** | NA |
| 1,2-Dichloropropane | µg/L | 5 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 1,3,5-Trimethylbenzene | µg/L | 5,100 | < 50 U | < 1.0 U | < 0.5 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 1,3-Dichlorobenzene | µg/L | 3,100 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 1,3-Dichloropropane | µg/L | 29 | < 100 U | < 1.0 U | < 0.5 U | < 1.0 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 5.0 U | < 1.0 U | NA |
| 1,4-Dichlorobenzene | µg/L | 75 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 2,2-Dichloropropane | µg/L | 42 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| 2-Butanone | µg/L | 61,000 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 2-Chlorotoluene | µg/L | 2,000 | < 100 U | < 0.5 U | < 1.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 2-Hexanone | µg/L | 6,100 | < 200 U | < 2.0 U | < 2.0 U | < 2.0 U | < 10 U | < 2.0 U | < 2.0 U | < 2.0 U | < 20 U | < 2.0 U | NA |
| 4-Chlorotoluene | µg/L | 2,000 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| 4-Isopropyltoluene | µg/L | 10,000 | < 50 U | < 1.0 U | < 0.5 U | < 1.0 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 5.0 U | < 0.5 U | NA |
| 4-Methyl-2-pentanone | µg/L | 8,200 | < 200 U | < 2.0 U | < 2.0 U | < 2.0 U | < 10 U | < 2.0 U | < 2.0 U | < 2.0 U | < 20 U | < 2.0 U | NA |
| Acetone | µg/L | 92,000 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| Benzene | µg/L | 5 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | **7.4** | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Bromobenzene | µg/L | 2,000 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| Bromochloromethane | µg/L | 4,100 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Bromodichloromethane | µg/L | 4.6 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Bromoform | µg/L | 36 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Bromomethane | µg/L | 140 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Carbon disulfide | µg/L | 10,000 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| Carbon tetrachloride | µg/L | 5 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Chlorobenzene | µg/L | 100 | < 100 U | < 0.5 U | < 0.5 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 10 U | < 0.5 U | NA |
| Chloroethane | µg/L | 41,000 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Chloroform | µg/L | 1,000 | **62 J** | **1.4** | **1.4** | < 0.5 U | **15** | < 0.5 U | **1.1** | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Chloromethane | µg/L | 220 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| cis-1,2-Dichloroethene | µg/L | 70 | **40000** | **63** | **65** | **8.6** | **23** | **15** | **17** | < 0.5 U | **1300** | **21** | NA |
| cis-1,3-Dichloropropene | µg/L | 5.3 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Dibromochloromethane | µg/L | 34 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Dibromomethane | µg/L | 380 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Dichlorodifluoromethane | µg/L | 20,000 | < 100 U | < 0.5 U | < 1.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 10 U | < 1.0 U | NA |
| Ethylbenzene | µg/L | 700 | < 100 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| Hexachlorobutadiene | µg/L | 20 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 UJ | < 1.0 UJ | < 1.0 U | < 10 U | < 1.0 U | NA |
| Isopropylbenzene | µg/L | 10,000 | < 50 U | < 1.0 U | < 0.5 U | < 1.0 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 10 U | < 0.5 U | NA |
| m,p-Xylene | µg/L | 10,000** | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| Methylene chloride | µg/L | 5 | **13,000** | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| n-Butylbenzene | µg/L | 4,100 | < 100 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | NA |

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | MW2_121020 12/10/20 | MW3_121520 12/15/20 | MW3_121520-a 12/15/20 | MW5_120820 12/08/20 | MW7_120920 12/09/20 | MW8_121720 12/17/20 | MW9_121620 12/16/20 | MW10_120920 12/09/20 | MW14_121520 12/15/20 | MW16_120820 12/08/20 | MW17_121620 12/16/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | µg/L | 4,100 | < 100 U | < 1.0 U | < 0.5 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 10 U | < 1.0 U | NA |
| Naphthalene | µg/L | 2,000 | < 50 U | < 0.5 U | < 1.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| o-Xylene | µg/L | 10,000** | < 100 U | < 1.0 U | < 0.5 U | < 1.0 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| sec-Butylbenzene | µg/L | 4,100 | < 50 U | < 0.5 U | < 1.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 5.0 U | < 0.5 U | NA |
| Styrene | µg/L | 100 | < 100 U | < 1.0 U | < 0.5 U | < 1.0 U | < 2.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 10 U | < 1.0 U | NA |
| tert-Butylbenzene | µg/L | 4,100 | < 100 U | < 0.5 U | < 1.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 1.0 U | NA |
| Tetrachloroethene | µg/L | 5 | < 50 U | **1.3** | **1.3** | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 5.0 U | NA |
| Toluene | µg/L | 1,000 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| trans-1,2-Dichloroethene | µg/L | 100 | **120** | **2.8** | **2.9** | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **11** | < 0.5 U | NA |
| trans-1,3-Dichloropropene | µg/L | 29 | < 50 U | < 0.5 U | < 0.5 U | < 0.5 U | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Trichloroethene | µg/L | 5 | **6900** | **360** | **360** | **34** | **2700** | **180** | **870** | **1.3** | **4400** | **440** | NA |
| Trichlorofluoromethane | µg/L | 31,000 | < 50 U | < 0.5 U | < 1.0 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| Vinyl chloride | µg/L | 2 | < 50 U | **30** | **30** | **2.7** | < 2.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | NA |
| **Metals (6020A)** | | | | | | | | | | | | | |
| Aluminum | mg/L | 100 | **0.0390** | **0.0130** | **0.0125** | **0.0137** | NA | NA | **0.0199** | NA | **0.0377** | NA | NA |
| Antimony | mg/L | 0.006 | < 0.00100 U | < 0.00100 U | < 0.00100 U | < 0.00100 U | NA | NA | < 0.00100 U | NA | < 0.00100 U | NA | NA |
| Arsenic | mg/L | 0.01 | **0.0392** | < 0.00100 U | < 0.00100 U | < 0.00100 U | NA | NA | < 0.00100 U | NA | **0.00371 J** | NA | NA |
| Barium | mg/L | 2 | **0.389** | **0.562** | **0.606** | **0.764** | NA | NA | **0.0859** | NA | **0.282** | NA | NA |
| Beryllium | mg/L | 0.004 | **0.000568 J** | < 0.000500 U | < 0.000500 U | < 0.000500 U | NA | NA | < 0.000500 U | NA | **0.000353 J** | NA | NA |
| Cadmium | mg/L | 0.005 | < 0.000500 U | **0.000307 J** | **0.000450 J** | **0.000648 J** | NA | NA | **0.000311 J** | NA | **0.000762 J** | NA | NA |
| Calcium | mg/L | NV | **90.4** | **29.6** | **31.8** | **18.4** | NA | NA | **9.06** | NA | **105** | NA | NA |
| Chromium | mg/L | 0.1 | **0.0198** | **0.00123 J** | **0.00132 J** | **0.0139** | NA | NA | **0.0895** | NA | **0.0151** | NA | NA |
| Cobalt | mg/L | 6.1 | **0.210** | **0.00214 J** | **0.00216 J** | **0.00232 J** | NA | NA | **0.00176** | NA | **0.0350** | NA | NA |
| Copper | mg/L | 1.3 | < 0.00250 U | **0.00156 J** | < 0.00250 U | < 0.00250 U | NA | NA | **0.00186 J** | NA | **0.00112 J** | NA | NA |
| Iron | mg/L | NV | **48.1** | **0.290** | **0.287** | **0.0986 J** | NA | NA | **0.844** | NA | **63.9** | NA | NA |
| Lead | mg/L | 0.015 | < 0.00100 U | < 0.00100 U | < 0.00100 U | < 0.00100 U | NA | NA | < 0.00100 U | NA | < 0.00100 U | NA | NA |
| Magnesium | mg/L | NV | **69.4** | **20.0** | **21.8** | **19.7** | NA | NA | **3.17** | NA | **45.3** | NA | NA |
| Manganese | mg/L | 1.1* | **1.46** | **2.75** | **2.97** | **0.0701** | NA | NA | **0.191** | NA | **2.63** | NA | NA |
| Nickel | mg/L | 0.49* | **0.0715 J** | **0.00736** | **0.00787** | **0.0437** | NA | NA | **0.0158** | NA | **0.165** | NA | NA |
| Potassium | mg/L | NV | **3.17** | **1.62** | **1.74** | **2.23** | NA | NA | **0.349** | NA | **12.4** | **NA** | **NA** |
| Selenium | mg/L | 0.05 | **0.00176 J** | < 0.00250 U | < 0.00250 U | < 0.00250 U | NA | NA | < 0.00250 U | NA | < 0.00250 U | NA | NA |
| Silver | mg/L | 0.51 | < 0.000500 UJ | < 0.000500 U | < 0.000500 U | < 0.000500 U | NA | NA | < 0.000500 U | NA | < 0.000500 U | NA | NA |
| Sodium | mg/L | NV | **26.8** | **272** | **298** | **104** | NA | NA | **17** | NA | **304** | NA | NA |
| Thallium | mg/L | 0.002 | < 0.000500 U | < 0.000500 U | < 0.000500 U | < 0.000500 U | NA | NA | **0.000290 J** | NA | < 0.000500 U | NA | NA |
| Vanadium | mg/L | 0.72 | < 0.00100 U | < 0.00100 U | < 0.00100 U | **0.000664 J** | NA | NA | **0.000659 J** | NA | < 0.00100 U | NA | NA |
| Zinc | mg/L | 31 | **0.0831** | **0.00473 J** | **0.00454 J** | **0.0188** | NA | NA | **0.00766** | NA | **1.03** | NA | NA |
| Mercury | mg/L | 0.002 | < 0.000100 U | < 0.000100 U | < 0.000100 U | < 0.000100 U | NA | NA | < 0.000100 U | NA | < 0.000100 U | NA | NA |
| **1,4-Dioxane (8270D SIM)** | | | | | | | | | | | | | |
| 1,4-Dioxane | µg/L | 9.1* | **0.49** | NA | NA | **0.077** | **1.2** | **0.37** | **0.37** | **0.031** | **0.038 J** | **1.2** | **0.097** |

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected.

UB - considered a non-detect due to blank contamination

NV - No Value

*Perchlorate, manganese, 1,4-dioxane and nickel compared to the PCL

** Value is for total xylenes

PCL – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential

a - duplicate sample

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | MW18_121720 12/17/20 | MW18_121720-a 12/17/20 | MW19_121020 12/10/20 | MW20_121020 12/10/20 | MW20_121020-a 12/10/20 | MW21_121420 12/14/20 | MW22_121420 12/14/20 | MW23_120820 12/08/20 | 109_121420 12/14/20 | 120_121520 12/15/20 | 125_121720 12/17/20 | 126_121720 12/17/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Package | | | HS20121018 | HS20121018 | HS20120617 | HS20120617 | HS20120617 | HS20120815 | HS20120815 | HS20120486 | HS20120815 | HS20120808 | HS20121018 | HS20121018 |
| Well ID | | | MW-18 | MW-18 | MW-19 | MW-20 | MW-20 | MW-21 | MW-22 | MW-23 | 109 | 120 | 125 | 126 |
| Aquifer Zone: | | | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow | Shallow |
| **Perchlorate (6850)** | | | | | | | | | | | | | | |
| Perchlorate | µg/L | 17* | < 0.500 U | < 0.500 U | < 0.500 U | **0.508 J** | **0.17 J** | **25,500** | **474** | **66,900** | **4,530** | **13,600** | **2,330** | < 0.500 U |
| **Volatile Organic Compounds (8260C)** | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | µg/L | 110 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 10 U | < 0.5 U | < 5.0 U | < 1.0 U | < 10 U | < 0.5 U | < 0.5 U |
| 1,1,1-Trichloroethane | µg/L | 200 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 14 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| 1,1,2-Trichloroethane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **11** | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethane | µg/L | 10,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | **0.91 J** | **10** | < 0.5 U | < 0.5 U |
| 1,1-Dichloroethene | µg/L | 7 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | **48** | < 0.5 U | < 0.5 U |
| 1,1-Dichloropropene | µg/L | 2.9 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 10 U | < 0.5 U | < 5.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| 1,2,3-Trichlorobenzene | µg/L | 310 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 UJ | < 1.0 UJ | < 5.0 U | < 1.0 UJ | < 10 UJ | < 1.0 U | < 1.0 U |
| 1,2,3-Trichloropropane | µg/L | 0.041 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 70 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 UJ | < 1.0 UJ | < 5.0 U | < 1.0 UJ | < 10 UJ | < 1.0 U | < 1.0 U |
| 1,2,4-Trimethylbenzene | µg/L | 5,100 | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 0.5 U | < 5.0 U | < 1.0 U | < 2.5 U | < 1.0 U | < 10 U | < 0.5 U | < 0.5 U |
| 1,2-Dibromo-3-chloropropane | µg/L | 0.2 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 UJ | < 0.5 U | <5.0 U | < 0.5 U | < 0.5 U |
| 1,2-Dibromoethane | µg/L | 0.05 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | <5.0 U | < 0.5 U | < 0.5 U |
| 1,2-Dichlorobenzene | µg/L | 600 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| 1,2-Dichloroethane | µg/L | 5 | < 0.5 U | < 0.5 U | **0.75 J** | < 0.5 U | < 0.5 U | **44** | **6.4** | **66** | < 0.5 U | **21** | < 0.5 U | < 0.5 U |
| 1,2-Dichloropropane | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | <5.0 U | < 0.5 U | < 0.5 U |
| 1,3,5-Trimethylbenzene | µg/L | 5,100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 10 U | < 0.5 U | < 5.0 U | < 0.5 U | <5.0 U | < 0.5 U | < 0.5 U |
| 1,3-Dichlorobenzene | µg/L | 3,100 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| 1,3-Dichloropropane | µg/L | 29 | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 2.5 U | < 1.0 U | < 10 U | < 0.5 U | < 0.5 U |
| 1,4-Dichlorobenzene | µg/L | 75 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| 2,2-Dichloropropane | µg/L | 42 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| 2-Butanone | µg/L | 61,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 UJ | < 1.0 UJ | < 5.0 U | < 1.0 UJ | < 10 UJ | < 1.0 U | < 1.0 U |
| 2-Chlorotoluene | µg/L | 2,000 | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 0.5 U | < 0.5 U |
| 2-Hexanone | µg/L | 6,100 | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 20 U | < 2.0 U | < 10 U | < 2.0 U | < 20 U | < 2.0 U | < 2.0 U |
| 4-Chlorotoluene | µg/L | 2,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| 4-Isopropyltoluene | µg/L | 10,000 | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 0.5 U | < 0.5 U |
| 4-Methyl-2-pentanone | µg/L | 8,200 | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 2.0 U | < 20 U | < 2.0 U | < 10 U | < 2.0 U | < 20 U | < 2.0 U | < 2.0 U |
| Acetone | µg/L | 92,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 UJ | < 1.0 UJ | < 5.0 U | < 1.0 UJ | < 10 UJ | < 1.0 U | < 1.0 U |
| Benzene | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | **1.3** | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Bromobenzene | µg/L | 2,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| Bromochloromethane | µg/L | 4,100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Bromodichloromethane | µg/L | 4.6 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Bromoform | µg/L | 36 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Bromomethane | µg/L | 140 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Carbon disulfide | µg/L | 10,000 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| Carbon tetrachloride | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | **4.8 J** | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Chlorobenzene | µg/L | 100 | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 10 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Chloroethane | µg/L | 41,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Chloroform | µg/L | 1,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **12** | **3.2** | **9.3** | **1.2** | **13** | < 0.5 U | < 0.5 U |
| Chloromethane | µg/L | 220 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| cis-1,2-Dichloroethene | µg/L | 70 | < 0.5 U | < 0.5 U | **5.8** | < 0.5 U | < 0.5 U | **90** | **4.7** | **20** | **120** | **800** | < 0.5 U | < 0.5 U |
| cis-1,3-Dichloropropene | µg/L | 5.3 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Dibromochloromethane | µg/L | 34 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Dibromomethane | µg/L | 380 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Dichlorodifluoromethane | µg/L | 20,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 5.0 U | < 0.5 U | < 5.0 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Ethylbenzene | µg/L | 700 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 10 U | < 0.5 U | < 2.5 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Hexachlorobutadiene | µg/L | 20 | < 1.0 UJ | < 1.0 UJ | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 UJ | < 1.0 UJ |
| Isopropylbenzene | µg/L | 10,000 | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 5.0 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U |
| m,p-Xylene | µg/L | 10,000** | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| Methylene chloride | µg/L | 5 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |
| n-Butylbenzene | µg/L | 4,100 | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 1.0 U | < 10 U | < 1.0 U | < 1.0 U |

**LHAAP-18/24 Analytical Results - December 202(**

| Location ID: / Sample Date: | Units | MCL/MSC/ PCL | MW18_121720 12/17/20 | MW18_121720-a 12/17/20 | MW19_121020 12/10/20 | MW20_121020 12/10/20 | MW20_121020-a 12/10/20 | MW21_121420 12/14/20 | MW22_121420 12/14/20 | MW23_120820 12/08/20 | 109_121420 12/14/20 | 120_121520 12/15/20 | 125_121720 12/17/20 | 126_121720 12/17/20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Propylbenzene | µg/L | 4,100 | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 0.5 U | < 10 U | < 0.5 U | < 0.5 U |
| Naphthalene | µg/L | 2,000 | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 0.5 U | < 10 U | < 0.5 U | < 5.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| o-Xylene | µg/L | 10,000** | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 1.0 U | < 10 U | < 1.0 U | < 5.0 U | < 0.5 U | < 10 U | < 0.5 U | < 0.5 U |
| sec-Butylbenzene | µg/L | 4,100 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 1.0 U | < 5.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Styrene | µg/L | 100 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 5.0 U | < 1.0 U | < 5.0 U | < 0.5 U | < 10 U | < 0.5 U | < 0.5 U |
| tert-Butylbenzene | µg/L | 4,100 | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 1.0 U | < 5.0 U | < 1.0 U | < 5.0 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Tetrachloroethene | µg/L | 5 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | **0.70 J** | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Toluene | µg/L | 1,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| trans-1,2-Dichloroethene | µg/L | 100 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **7.5 J** | < 0.5 U | < 2.5 U | **1.2** | **6.7 J** | < 0.5 U | < 0.5 U |
| trans-1,3-Dichloropropene | µg/L | 29 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Trichloroethene | µg/L | 5 | **7.3** | **6.9** | **13** | < 0.5 U | < 0.5 U | **8,700** | **420** | **2800** | **400** | **5700** | **1.2** | < 0.5 U |
| Trichlorofluoromethane | µg/L | 31,000 | < 0.5 U | < 0.5 U | < 0.5 U | < 1.0 U | < 0.5 U | < 10 U | < 0.5 U | < 2.5 U | < 1.0 U | < 5.0 U | < 0.5 U | < 0.5 U |
| Vinyl chloride | µg/L | 2 | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | < 0.5 U | **28** | < 0.5 U | < 2.5 U | < 0.5 U | < 5.0 U | < 0.5 U | < 0.5 U |
| **Metals (6020A)** | | | | | | | | | | | | | | |
| Aluminum | mg/L | 100 | NA | NA | **1.34** | NA | NA | **0.0170** | **0.0238** | NA | NA | NA | **0.670** | **0.125** |
| Antimony | mg/L | 0.006 | NA | NA | **0.00172 J** | NA | NA | < 0.00100 U | < 0.00100 U | NA | NA | NA | < 0.00100 U | < 0.00100 U |
| Arsenic | mg/L | 0.01 | NA | NA | **0.00799 J** | NA | NA | **0.000544 J** | **0.00131 J** | NA | NA | NA | **0.000600 J** | **0.00942** |
| Barium | mg/L | 2 | NA | NA | **0.498** | NA | NA | **9.95** | **0.819** | NA | NA | NA | **0.0893** | **9.17** |
| Beryllium | mg/L | 0.004 | NA | NA | < 0.00100 U | NA | NA | < 0.000500 U | < 0.000500 U | NA | NA | NA | < 0.000500 U | < 0.000500 U |
| Cadmium | mg/L | 0.005 | NA | NA | **0.00131 J** | NA | NA | **0.000662 J** | **0.000318 J** | NA | NA | NA | < 0.000500 U | **0.000560 J** |
| Calcium | mg/L | NV | NA | NA | **151** | NA | NA | **248** | **88.2** | NA | NA | NA | **1.61** | **311** |
| Chromium | mg/L | 0.1 | NA | NA | **0.0967** | NA | NA | **0.825** | **0.321** | NA | NA | NA | **0.00232 J** | **0.000517 J** |
| Cobalt | mg/L | 6.1 | NA | NA | **0.0316** | NA | NA | **0.0762** | **0.00738** | NA | NA | NA | **0.000545 J** | **0.0193** |
| Copper | mg/L | 1.3 | NA | NA | **0.00754 J** | NA | NA | **0.0381** | **0.00716** | NA | NA | NA | < 0.00250 U | **0.00138 J** |
| Iron | mg/L | NV | NA | NA | **90.6** | NA | NA | **8.61** | **3.13** | NA | NA | NA | **0.660** | **9.48** |
| Lead | mg/L | 0.015 | NA | NA | **0.00169 J** | NA | NA | < 0.00100 U | < 0.00100 U | NA | NA | NA | < 0.00100 U | **0.000663 J** |
| Magnesium | mg/L | NV | NA | NA | **95.1** | NA | NA | **199** | **31.3** | NA | NA | NA | **1.21** | **246** |
| Manganese | mg/L | 1.1* | NA | NA | **4.19** | NA | NA | **1.99** | **0.196** | NA | NA | NA | **0.0125** | **0.272** |
| Nickel | mg/L | 0.49* | NA | NA | **0.0915** | NA | NA | **0.861** | **0.337** | NA | NA | NA | **0.00230 J** | **0.0135** |
| Potassium | mg/L | NV | NA | NA | **4.37** | NA | NA | **2.54** | **1.73** | NA | NA | NA | **0.607** | **3.68** |
| Selenium | mg/L | 0.05 | NA | NA | < 0.00500 U | NA | NA | < 0.00250 U | < 0.00250 U | NA | NA | NA | < 0.00250 U | < 0.00250 U |
| Silver | mg/L | 0.51 | NA | NA | < 0.00100 U | NA | NA | < 0.000500 U | < 0.000500 U | NA | NA | NA | < 0.000500 U | < 0.000500 U |
| Sodium | mg/L | NV | NA | NA | **1050** | NA | NA | **574** | **371** | NA | NA | NA | **33.2** | **838** |
| Thallium | mg/L | 0.002 | NA | NA | < 0.00100 U | NA | NA | < 0.000500 U | < 0.000500 U | NA | NA | NA | < 0.000500 U | < 0.000500 U |
| Vanadium | mg/L | 0.72 | NA | NA | **0.00207 J** | NA | NA | **0.00385 J** | **0.00218 J** | NA | NA | NA | **0.00154 J** | **0.00245 J** |
| Zinc | mg/L | 31 | NA | NA | **0.00173 J** | NA | NA | **0.0321** | < 0.00250 U | NA | NA | NA | **0.00473 J** | **0.0289** |
| Mercury | mg/L | 0.002 | NA | NA | < 0.000100 U | NA | NA | < 0.000100 U | < 0.000100 U | NA | NA | NA | **0.0000330 J** | < 0.000100 U |
| **1,4-Dioxane (8270D SIM)** | | | | | | | | | | | | | | |
| 1,4-Dioxane | µg/L | 9.1* | NA | NA | NA | NA | NA | **0.2** | NA | NA | **0.12** | **9.4** | NA | **0.53** |

Notes:

Blue highlighting indicates concentrations above the MCL/MSC/PCL

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations/Protective Concentration Level

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

UJ - The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected.

UB - considered a non-detect due to blank contamination

NV - No Value

*Perchlorate, manganese, 1,4-dioxane and nickel compared to the PCL

** Value is for total xylenes

PCL – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential

a - duplicate sample

**DEPARTMENT OF THE ARMY**
**LONGHORN ARMY AMMUNITION PLANT**
**POST OFFICE BOX 220**
**RATCLIFF, AR 72951**

March 8, 2021

DAIN-ODB-LO

Ms. Lauren Poulos
U.S. Environmental Protection Agency
Federal Facilities Section R6
1201 Elm Street, Suite 500
Dallas, TX 75270-2002

**Re: Draft Final Summary Report – Excavation and Backfill Activities at LHAAP-17, Longhorn Army Ammunition Plant, Karnack, Texas, March 2021**

Dear Ms. Poulos,

An electronic copy of the above referenced document has been added to the project portal's "Documents" folder at the following address for your review: (https://docs.cbifederalservices.com/sites/501032/regulators/Shared%20Documents/Forms/AllItems.aspx). An electronic copy of this letter and download instructions for the electronic file have been sent via email. The document includes revisions to address the comments on the Draft report received from USEPA on February 16, 2021 and from the TCEQ on February 1, 2021. A table showing the responses to the USEPA and TCEQ comments is included with this Draft Final. In accordance with the Federal Facility Agreement, this Draft Final will be considered Final after 30 days without further comment.

The document was prepared by Bhate Environmental Associates, Inc., (Bhate) team, on behalf of the Army as part of Bhate's Performance Based Remediation contract for the facility. I ask that Kim Nemmers, Bhate's Project Manager, be copied on any communications related to the project.

The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.m.zeiler.civ@mail.mil.

Sincerely,

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

Copies furnished:
A. Palmie, TCEQ, Austin, TX (electronic)
P. Bruckwicki, USFWS, Caddo Lake NWR, TX (1 hard copy and 1 CD)
R. Smith USACE, Tulsa District, OK (electronic)

A. Williams, USACE, Tulsa District, OK (electronic)
A. Maly USAEC, San Antonio, TX (electronic)
K. Nemmers, Bhate, Lakewood, CO (electronic)
P. Srivastav, APTIM, Houston, TX (electronic)

**DEPARTMENT OF THE ARMY**
**LONGHORN ARMY AMMUNITION PLANT**
**POST OFFICE BOX 220**
**RATCLIFF, AR 72951**

March 8, 2021

DAIN-ODB-LO

Ms. April Palmie
Texas Commission on Environmental Quality
Superfund Section, MC-136
12100 Park 35 Circle, Bldg D
Austin, TX 78753

**Re: Draft Final Summary Report – Excavation and Backfill Activities at LHAAP-17, Longhorn Army Ammunition Plant, Karnack, Texas, March 2021**

Dear Ms. Palmie,

An electronic copy of the above referenced document has been added to the project portal's "Documents" folder at the following address for your review: (https://docs.cbifederalservices.com/sites/501032/regulators/Shared%20Documents/Forms/AllItems.aspx). An electronic copy of this letter and download instructions for the electronic file have been sent via email. The document includes revisions to address the comments on the Draft report received from USEPA on February 16, 2021 and from the TCEQ on February 1, 2021. A table showing the responses to the USEPA and TCEQ comments is included with this Draft Final. In accordance with the Federal Facility Agreement, this Draft Final will be considered Final after 30 days without further comment.

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The point of contact for this action is the undersigned. I may be contacted at 479-635-0110, or by email at rose.m.zeiler.civ@mail.mil.

Sincerely,

Rose M. Zeiler, Ph.D.
Longhorn AAP Site Manager

Copies furnished:
L. Poulos, USEPA Region 6, Dallas, TX
P. Bruckwicki, USFWS, Caddo Lake NWR, TX (letter only)
R. Smith, USACE, Tulsa District, OK

A. Williams, USACE, Tulsa District, OK
A. Maly, USAEC, San Antonio, TX
K. Nemmers, Bhate, Lakewood, CO
P. Srivastav, APTIM, Houston, TX

**Response to Comments on**
**Draft Summary Report – Excavation and Backfill Activities at LHAAP-17**
**Longhorn Army Ammunition Plant, Karnack, Texas**

**Document Date: 15 January 2021**
**Comment Date: 16 February 2021**

**Reviewer:** Lauren Poulos, USEPA
**Respondent:** Dr. Rose Zeiler

1. Respondent Concurs (C), Does Not Concur (D), Takes Exception (E), or Delete (X)
2. Commenter Agrees (A) with response, or Does Not Agree (D) with response

| Comment Ref. # | Section, Page Ref. | USEPA Comment | C, D, E, or X | Response | A or D[2] |
|---|---|---|---|---|---|
| 1. | Page 3-2, 2nd Paragraph | While rainfall events later on likely filled up pits with rainwater, during field observations while activity was being observed by EPA, it appeared several of the pits were experiencing groundwater infiltration. Pits towards the south, like N, M, and G, were dry, but deeper pits, like D and H, had water in them. It would be helpful to include a discussion for pits where some of the water may have been groundwater infiltration. For future work, the main concern would be H since it is deeper and had water in it before rainfall. | C | The following text will be added to the front of the 6th paragraph of Section 3.1:<br>"During excavation activities, very shallow water accumulations were noted in the bottom of the Area D excavation and in the deeper portions of the Area H excavation. These deep portions were approximately 6.5-7 feet deep and coincide with the depth to groundwater measured in nearby monitoring well 130." | |

| | | | | | |
|---|---|---|---|---|---|
| 2. | Page 3-3, 2nd Paragraph | Please describe where the stockpile is located or show it on Figure 3-1. | C | The last sentence of the 2nd to last paragraph in Section 3.1 will revised to the following:<br>"Approximately 2,196 CY of soil were stockpiled on site south of Area J and west of Area G and were not transported to the landfill due to the Stop Work Order." | |
| 3. | General Comment | Table 5-1 Reporting levels for TNT products was < 29.4, but in other locations in the table it is multiple orders of magnitude lower (i.e., <0.0281). Could this be due to conversion issues because of unit discrepancies or another error in calculations? Also, some of the samples cannot be located in the Appendix D lab report; for example, searching sample ID 17SS71 does not produce the relevant sample information. It may be that just the borrow pit data is included in the lab report and none of the confirmation sampling. Please verify the data in the tables and provide the relevant lab reports for confirmation sampling. | C/E | The explosives data for the "17SSXXX" samples on Table 5-1 was reported in mg/kg instead of µg/kg. Table 5-1 will be revised to show all concentrations in µg/kg.<br>The laboratory data packages for the samples collected during the excavation and backfill activities, including the borrow source samples, are included in Appendix D. Some of the soil samples used for confirmation were from previous sampling events that were documented in the Pre-Design Investigation Report or the Remedial Design. The laboratory data packages for those samples were provided in the previous reports where the data was first reported. | |

**Response to Comments on**
**Sixth Annual Remedial Action Operation Report**
**Draft Summary Report – Excavation and Backfill Activities at LHAAP-17**
**Longhorn Army Ammunition Plant, Karnack, Texas**

**Document Date: 15 January 2021**
**Comment Date: 1 February 2021**

**Reviewer:** April Palmie, TCEQ
**Respondent:** Dr. Rose Zeiler

3. Respondent Concurs (C), Does Not Concur (D), Takes Exception (E), or Delete (X)
4. Commenter Agrees (A) with response, or Does Not Agree (D) with response

| Comment Ref. # | Section, Page Ref. | TCEQ Comment | C, D, E, or X | Response | A or D[2] |
|---|---|---|---|---|---|
| 1. | Section 4.0, Page 4-1, 1st Bullet | Should say one composite confirmation sample was collected. | C | The 1st sentence of the bullet will be revised to:<br>"One composite sample from the walls and floor of the excavation was analyzed for barium and the concentration was below the cleanup value." | |
| 2. | Section 5.0, Page 5-1, 1st Paragraph | Sentence beginning with "Many of the samples" should also reference Figure 4-3. | C | A reference to Figure 4-3 will be added to the sentence as suggested. | |
| 3. | Table 4-1 | 17WL011 is not on the figures | C | The 17WL011-03 sample location will be added to Figure 4-1 on the west wall of Area H. | |
| 4. | Table 5-1 | Note results for 17SS104 (between M and N) are not included in Table 5-1. | D | Table 5-1 includes only the confirmation samples used to define the "clean" excavations that were backfilled. Since additional excavation will be needed on Areas M and N, the confirmation sample results for those excavations, including the 17SS104 results will be included in a future report. | |

| | | | | | |
|---|---|---|---|---|---|
| 5. | Figure 3-2 | Spread out 5.5 ft and 7 ft in legend, currently difficult to tell 7 ft goes with green. | C | Figure 3-2 will be revised as requested. | |
| 6. | Figure 4-1 and 4-2 | Revise 17WL016-5.5 to YYMMDD. | C | Figures 4-1 and 4-2 will be revised as suggested. | |
| 7. | Figure 4-2 | Suggest a distinction between those results that exceeded and were resampled, and those that were not resampled. Maybe you could add asterisk and note for those that were resampled. I believe there are fewer of that type. | C | The samples that exceeded the cleanup values will be noted with an asterisk as suggested. Note that the resampled and a note will be added to the legend to define the asterisk as follows:<br>"Samples shown with an asterisk next to the sample identification contained concentrations that exceeded the cleanup value for one or more COC and were resampled following overexcavation." | |
| 8. | Figures (General) | Figures general – This report has a very informative set of figures and descriptive narrative, but I have a hard time visualizing which areas still need to be excavated, over excavated, sampled, or resampled. Please consider adding a new figure to include areas that need sample or excavation in the next phase. Maybe you could use a red line (or fill) to indicate areas where more excavation is necessary (either from first round or over excavation). Another color line (or fill) could be used to show the walls/floor areas that need sample or resample. This | C | Figure 6-1 will be added to show general areas where sampling, excavation, or resampling are needed. The following text will be added after the bullets in Section 6.0:<br>"The general areas where sampling, excavation, or resampling are likely to be needed are shown on Figure 6-1. The plan for performing the necessary additional activities will be presented in a future work plan document." | |

| | | | | | |
|---|---|---|---|---|---|
| | | information could also be added to an existing figure. | | | |
| 9. | General | Area between M and N, I believe the original plan was not to collect confirmation samples for the walls that bound the area between M and N. This was based on one clean sample (17SS104). Please reconsider confirmation sampling for these excavation walls in the next phase, given the very high soil concentrations for all other walls in these excavations. Area N is supposed to have a floor sample but that isn't noted as a sample that still needs to be collected. | C | Noted. As referenced in the previous response (TCEQ Comment #8), an upcoming work plan will present the proposed activities to complete the excavation and sampling necessary to confirm removal of the remaining contaminated areas. This comment will be addressed by the sampling to be proposed in that document.<br><br>The floor sample described in the confirmation sampling summary referred to the shallow floor sample that has already been collected (17FL017-2.5-190923). The deeper floor of Area N was bounded by a previously collected soil sample (COE17-16A[4']). The shallow floor sample collected from Area N contained 2,4-DNT at a concentration exceeding the cleanup value, and the area will be shown as requiring additional investigation on the new Figure 6-1. | |

# *Draft Final*
# Summary Report – Excavation and Backfill Activities at LHAAP-17
## Longhorn Army Ammunition Plant
## Karnack, Texas

Prepared for U.S. Army Corps of Engineers, Tulsa District
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**Contract No. W9128F-13-D-0012**
**Task Order No. W9128BV17F0150**
**Project No. 501032**
**Rev 0**
**March 2021**

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# Acronyms and Abbreviations

| | |
|---|---|
| APTIM | Aptim Federal Services, LLC |
| Bhate | Bhate Environmental Associates, Inc. |
| CY | cubic yard |
| EOD | explosive ordnance disposal |
| FM | Farm to Market Road |
| ID | identifier |
| IWWP | Installation-Wide Work Plan |
| LHAAP | Longhorn Army Ammunition Plant |
| MEC | munitions and explosives of concern |
| OESS | Ordnance and Explosives Safety Specialist |
| RAWP | Remedial Action Work Plan |
| RD | Remedial Design |
| TNT | trinitrotoluene |
| U.S. | United States |
| USACE | U.S. Army Corps of Engineers |

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# 1.0 INTRODUCTION

The United States (U.S.) Army Corps of Engineers (USACE), Tulsa District, contracted Bhate Environmental Associates, Inc. (Bhate) under the Omaha Multiple Environmental Government Acquisition National Small Business Multiple Award Task Order Contract Environmental Remediation Services with Military Munitions Response Program, Task Order No. W9128BV17F0150, to conduct environmental restoration of LHAAP-17 at Longhorn Army Ammunition Plant (LHAAP). The Bhate Team consists of Bhate and Aptim Federal Services, LLC (APTIM). APTIM has prepared this Summary Report to describe excavation and confirmation sampling activities completed at LHAAP-17 from August 14 through September 29, 2019, before the discovery of munitions and explosives of concern (MEC) forced excavation activities to be halted at the direction of USACE (USACE 2019). This report also documents backfilling activities conducted from August 5–13, 2020, for the excavations that that were confirmed to be clean based on existing sample data or confirmation samples.

The excavation and backfilling activities were performed in accordance with the Remedial Design/Remedial Action Work Plan (RD/RAWP) (Bhate 2019) and the Final Installation-Wide Work Plan (IWWP) (Bhate 2018a). **Section 2.0** provides a description of the site and a brief history of events that led to interruption of the excavation activities. **Section 3.0** describes the soil excavation activities completed prior to the USACE stop work order (USACE 2019). **Section 4.0** summarizes the confirmation analytical results for samples collected prior to the stop work order from USACE. **Section 5.0** describes the backfilling of excavations documented to be clean in August 2020. **Section 6.0** summarizes the remaining excavation activities that are necessary to complete the excavation activities described in the RD/RAWP. **Section 7.0** provides a list of references cited in the report.

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# 2.0 SITE DESCRIPTION AND HISTORY

LHAAP-17, a National Priorities List site known as the Burning Ground No. 2/Flashing Area, is a 3.9-acre site located within a heavily wooded section in the southeastern portion of LHAAP (**Figure 2-1**). The site had two 185-foot by 305-foot cleared areas, separated by a gravel access road. The site is relatively flat and was covered with grass and scattered brush prior to the recent excavation activities in 2019. LHAAP-17 was used as a burning ground from 1959 through 1980 (Plexus Scientific Corporation 2005). Bulk trinitrotoluene (TNT), photo flash powder, and reject material from Universal Match Corporation operations were burned at LHAAP-17. In 1959, the materials removed from the former TNT Production Area (LHAAP-29) and the former TNT Waste Disposal Plant (LHAAP-32) during demolition were burned and/or flashed at LHAAP-17. The site was used as a flashing area to decontaminate recoverable metal by-products until 1980, when it became inactive. Burning trenches were located around the inside perimeter of the previously fenced area and within the open area on the western boundary of the site. As each trench filled with ash, it was covered, and a new trench was excavated. The waste residues were reportedly removed from the trenches in 1984, and the site was allowed to revegetate (Jacobs Engineering Group, Inc. 2001).

An RD/RAWP (Bhate 2019) was prepared to describe the design elements and actions necessary to implement the remedy for LHAAP-17 described in the Final Record of Decision (U.S. Army 2016). The remedy selected in the Record of Decision included excavation and off-site disposal of soil, groundwater extraction, monitored natural attenuation, and land-use controls to maintain the remedy and prohibit groundwater use until chemical of concern concentrations are reduced to levels supportive of unlimited use and unrestricted exposure.

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# 3.0 SOIL EXCAVATION ACTIVITIES

## 3.1 Completed Excavation Activities

Excavation activities began with mobilization and marking/staking of the planned excavation areas (**Figure 3-1**) on August 14–16, 2019. On August 19, a quality control examination of the excavation areas located using a global positioning system revealed insufficient accuracy, and a licensed professional surveyor (Collins Surveying) was mobilized to mark the excavation corners to ensure that the accuracy requirements of the RD/RAWP and IWWP were met.

Excavation of Area H began on August 20, 2019, with soil being stockpiled over the eastern portion of Area H to prepare for loading. Loading of trucks began on August 21, 2019. Excavation activities continued from August 21–August 30. During the excavation of Area N (**Figure 3-1**) on August 30, 2019, a 4.2-inch mortar round was discovered (see photo in **Appendix A**). The Harrison County Sheriff was contacted, who referred the notice to Fort Hood Explosive Ordnance Disposal (EOD). Fort Hood EOD personnel inspected the item and identified it as an M335 4.2-inch illumination mortar round (U.S. Army 2019). The EOD personnel determined that the item could not be transported safely and detonated the item on September 3, 2019. Following detonation, the EOD personnel determined that the item was empty.

Following the EOD response on September 3, 2019, site excavation activities were resumed on September 4, 2019, under the assumption that the empty munition was an anomalous find. Excavation activities resumed on September 5, 2019 and continued until a second munition item was encountered during excavation of Area N on September 7, 2019. Activities were once again halted, and the site was secured. The Harrison County Sheriff was notified, and the Sheriff contacted Army EOD, who dispatched a unit from Fort Polk on September 10, 2019. The item was determined to be empty and detonation was not necessary. An Ordnance and Explosives Safety Specialist (OESS), Hank Domme, mobilized to the site for unexploded ordnance construction support in the event any further munitions items were encountered.

Excavation activities resumed with OESS support on September 16, 2019 and continued through September 28, 2019. Numerous inert munitions items encountered in Areas L, M, and N (**Figure 3-1**) were removed and secured by the OESS. Two 81-millimeter illumination rounds were recovered by the OESS between Areas L and M (**Figure 3-1**) that could not be confirmed as inert, and EOD was dispatched to detonate the rounds on September 28, 2019. All further excavation in Areas L, M, and N, was halted on September 27, 2019, but excavation activities continued in other areas. During excavation of the eastern portion of Area H on September 28, 2019, additional MEC items were encountered and all further intrusive activities were discontinued.

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The existing stockpiles of excavated soil were covered with plastic sheeting and the entrances to the site were blocked with caution tape and signage on September 29, 2019. No further excavation or intrusive activities were conducted after September 29, 2019.

During excavation activities, very shallow water accumulations were noted in the bottom of the Area D excavation and in the deeper portions of the Area H excavation. These deep portions were approximately 6.5- to 7-feet-deep and coincide with the depth to groundwater measured in nearby monitoring well 130. Seasonal heavy rainfall between fall 2019 and early summer 2020 caused accumulation of water in the excavations and soft ground conditions at the site that prevented the backfilling of the clean excavations until August 2020 (see **Section 5.0**).

The following excavation activities were completed from August 20, 2019 to September 28, 2019:

- Area A – Completely excavated to the designed boundary shown on **Figure 3-1**. No overexcavation was required.
- Area B – Completely excavated to the designed boundary shown on **Figure 3-1**. No overexcavation was required.
- Area C – Completely excavated to the designed boundary shown on **Figure 3-1**. No overexcavation was required. Excavation backfilled and partially covered with packed gravel to reroute the haul road.
- Area D – Completely excavated to the designed boundary shown on **Figure 3-1**. No overexcavation was required.
- Area E – Completely excavated to the designed boundary shown on **Figure 3-1** and overexcavated approximately 5 feet to northeast and southeast based on confirmation sampling. No further overexcavation was required.
- Area F – Completely excavated to the designed boundary shown on **Figure 3-1**. No overexcavation was required.
- Area G – Completely excavated to the designed boundary shown on **Figure 3-1**. No overexcavation was required.
- Area H – Completely excavated to the designed boundary shown on **Figure 3-1** except for approximately 700 square feet along the eastern edge of the excavation, as shown on **Figure 3-2**. Confirmation samples have not been collected from the eastern end of the excavation (discussed further in **Section 6.0**) due to the discovery of MEC. Overexcavation of approximately 5 feet was conducted to the north and approximately 10 feet to the south. Confirmation samples collected indicate that further

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overexcavation will be needed along the south wall and in the central floor of the excavation.

- Area J – Completely excavated to the designed boundary shown on **Figure 3-1** except for approximately 1,250 square feet in the southeastern portion of the area, as shown on **Figure 3-2**. A confirmation sample still needs to be collected at the southern end of the excavation (See **Section 6.0**), but no overexcavation is required based on currently available information.
- Area K – Completely excavated to the designed boundary shown on **Figure 3-1**. Overexcavation of approximately 5 feet was conducted to the south and approximately 10 to 15 feet to the east. Confirmation samples collected indicate that further overexcavation will be needed along the east wall of the excavation.
- Area L – Completely excavated to the designed boundary shown on **Figure 3-1**. Confirmation samples indicate that overexcavation of the west and north walls is required.
- Area M – Completely excavated to the designed boundary shown on **Figure 3-1**. Confirmation samples indicate that overexcavation of the west, south, and north shallow walls and expansion of the deep walls is required.
- Area N – Completely excavated to the designed boundary shown on **Figure 3-1**. Confirmation samples indicate that overexcavation of the south wall and shallow excavation floor is required.

Site photographs showing the excavation activities are included as **Appendix A**.

Following cessation of the excavation activities, the excavation extent was surveyed by Collins Surveying, and the surveyed extent of the open excavations is shown on **Figure 3-1**. Based on the surveyed excavation extent and the planned depth of the excavations, the estimated total material excavated from the areas described above is 5,735 in-place cubic yards (CY) of soil, which corresponds to 8,029 CY of excavated soil assuming a 1.4 fluff factor. Transport and disposal contractor Valley Solvents & Chemicals transported 307 truckloads or approximately 5,833 CY of soil to the landfill, assuming approximately 19 CY per truckload. Approximately 2,196 CY of soil were stockpiled on site south of Area J and west of Area G and were not transported to the landfill due to the Stop Work Order.

The quantity of material left in the originally planned excavation areas that was not removed due to the stop work order includes approximately 700 square feet of 3-foot-deep excavation in Area H (approximately 78 in-place CY) and approximately 1,250 square feet of 5.5-foot-deep excavation in Area J (approximately 255 in-place CY).

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## 3.2 Waste Disposal

Soil excavated from the areas described above was stockpiled and then loaded onto end-dump trucks contracted through Valley Solvents & Chemicals for transportation to the East Texas Regional Landfill on FM 2867 East in Henderson, Texas. Each load was accompanied by a nonhazardous waste manifest signed by the Army that was signed upon loading by the truck driver and upon receipt by the waste disposal facility. Copies of the waste manifests and load tickets are included in **Appendix B**. The load tickets from the landfill include the weight of material disposed of in tons. The 307 loads transported to the landfill resulted in 6,829 tons of material received at the landfill.

On December 9, 2020, the East Texas Regional Landfill personnel were provided Recognize, Retreat, Report (3Rs) training, with the details summarized in **Appendix C**.

## 3.3 Overexcavation

Overexcavation was performed on Areas E, H, and K (**Figure 3-1**) prior to the stop work order based on confirmation sampling conducted up to that point. Based on the confirmation samples collected to date, Areas H, K, L, M, and N, (**Figure 3-1**) will still require additional overexcavation, and Area J has not been completely sampled and may require overexcavation.

# 4.0 CONFIRMATION SAMPLING

A total of 43 confirmation samples were collected (not including quality control samples) and analyzed for explosives or barium depending on the excavation area being sampled. Laboratory Data Reports are included in **Appendix D**. The confirmation sample analytical results are shown in **Table 4-1**. The confirmation sampling results are summarized below by excavation area. **Figure 4-1** shows the sample locations that did not contain analytes exceeding the cleanup values. **Figure 4-2** shows the locations of samples that contained concentrations exceeding the cleanup values. Each sample was a five-point composite collected in accordance with the IWWP and RD/RAWP and used to represent up to 1,000 square feet of excavation wall or floor. The sample locations shown on the maps represent areas of wall or floor covered by that sample and should not be treated as a pinpoint location. It should also be noted that when a sample area required overexcavation, the confirmation sample collected after overexcavation retained the same sample area ID, but the sample ID contained a different date string, indicating that it was collected at a later date after the overexcavation. If an area shows an early sample with a location in red on **Figure 4-2** and a later sample in green at the same location on **Figure 4-1**, overexcavation at that area has been successfully completed.

- Area A – One composite sample from the walls and floor of the excavation was analyzed for barium and the concentration was below the cleanup value. The excavation was bounded by existing clean samples (**Figure 4-3**) that were used for confirmation.
- Area B – No additional confirmation samples were collected. The excavation was bounded by existing clean samples (**Figure 4-3**) that were used for confirmation.
- Area C – Three wall samples were analyzed for barium and did not contain concentrations exceeding the cleanup values.
- Area D – Two wall samples and two floor samples were analyzed for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene and did not contain concentrations exceeding the cleanup values.
- Area E – Two initial wall samples were collected and analyzed for barium and contained concentrations exceeding the cleanup values. Following overexcavation, two additional samples were collected and did not exceed the cleanup values.
- Area F – No additional confirmation samples were collected. The excavation was bounded by existing clean samples (**Figure 4-3**) that were used for confirmation.
- Area G – No additional confirmation samples were collected. The excavation was bounded by existing clean samples (**Figure 4-3**) that were used for confirmation.

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- Area H – Nine floor samples and three wall samples were initially collected and analyzed for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene. Two of the wall samples contained concentrations exceeding the cleanup values and were overexcavated. Two additional wall samples were collected following overexcavation, with one still containing concentrations exceeding the cleanup values. Additional overexcavation was performed, but confirmation sampling was not performed prior to the stop work order. Two of the floor samples exceeded the cleanup values, but no overexcavation was performed prior to the stop order. One wall sample and five floor samples from the originally planned samples have not been collected due to the stop work order.
- Area J – Two wall samples were collected and analyzed for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene. Neither contained concentrations exceeding the cleanup values. One wall sample remains to be collected once the originally planned excavation is completed (south wall).
- Area K – Two wall samples were collected and analyzed for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene. Both wall samples contained concentrations exceeding the cleanup values and were overexcavated. Two additional wall samples were collected following overexcavation, with one still containing concentrations exceeding the cleanup values. Additional overexcavation was not performed prior to the stop work order.
- Area L – Three wall samples were collected and analyzed for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene. Two of the samples contained concentrations exceeding the cleanup values, but overexcavation was not completed prior to the stop work order.
- Area M – Four wall samples were collected and analyzed for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene. All four samples contained concentrations exceeding the cleanup values, but overexcavation was not completed prior to the stop work order.
- Area N – One floor sample and three wall samples were collected and analyzed for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene. The floor sample and one wall sample (south) contained concentrations exceeding the cleanup values. Overexcavation was not completed prior to the stop work order.

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# 5.0 BACKFILLING ACTIVITIES

Backfilling of Excavation Areas A, B, D, E, F, and G was performed from August 5–13, 2020. Area C was backfilled in 2019 prior to the stop work order, and gravel was placed over the top to allow trucks to pass through the site. Areas H, J, K, L, M, and N were left open because additional excavation is required and will be completed under a separate contract. The backfilling activities were performed in accordance with the RD/RAWP (Bhate 2019) and the Final IWWP (Bhate 2018a). Many of the samples used to verify that the excavations were clean prior to backfilling were previous investigation samples (shown on **Figure 4-3**), as summarized in the RD/RAWP, and the remaining confirmation sample collection activities were conducted in accordance with the RD/RAWP confirmation sampling plan. A summary of the investigation soil boring samples and excavation confirmation samples used to verify that the excavations removed all contaminated soil is provided in **Table 5-1**. **Figure 5-1** shows the locations of the investigation and confirmation samples used. **Figure 5-2** shows the locations of the backfilled areas and the excavations that remain open. The analytical data packages for the investigation samples used for confirmation were provided in the Pre-Design Investigation Report (Bhate 2018b) and the RD/RAWP (Bhate 2019). The analytical data packages for confirmation samples collected during excavation are provided in **Appendix D**.

Native soil fill from the Moore Pit located approximately 6 miles east of Karnack, Texas, was hauled to the site by Nash Trucking in 14-CY dump trucks. Soil samples from the backfill pit were collected at a rate of one sample per 1,000 CY in accordance with the RD/RAWP on August 13, 2019, and the results of samples collected are summarized in **Table 5-2**. The analytical results from borrow source locations BS-3 and BS-5 were below the applicable cleanup values for metals, perchlorate, volatile organic compounds, explosives, and tetrachlorodibenzo-p-dioxin. A copy of the laboratory analytical data package for the backfill samples is provided in **Appendix D**. Prior to the stop work order, 32 loads (448 CY) of backfill from the Moore Pit (locations BS-3 and BS-5) were delivered to the site, and another 109 loads (1,526 CY) were delivered to the site between August 6–12, 2020. Load tickets for the backfill brought to the site are provided in **Appendix E**. A portion of the soil delivered in 2019 was used to backfill excavation Area C prior to the stop work order so that the road through the site could be diverted to the north around the planned extent of Area H. The remaining backfill was left in a stockpile near Area D and used to begin backfilling Areas B and D beginning on August 5, 2020.

Prior to backfilling, standing water from the excavations to be backfilled was pumped using a 2-inch pump and discharged into the nearest drainage area. Areas A, B, D, E, F, and G were backfilled using a rubber-tire front-end loader and a tracked excavator. In accordance with the stop work direction letter, the areas were backfilled with loose soil and were not compacted

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other than compression from the tracked excavator or front-end loader bucket and/or tracks when the soil was spread in the excavation. The areas were left slightly mounded to allow for settling, and Area B was contoured to match the drainage feature that was previously present within the excavation area. Photographs of the backfilled excavation areas are provided in **Appendix A**. Because of the proximity of drainage features to the northern and western edges of Area H, soil berms were placed to the northeast and the west of Area H to divert water that could flow into Area H from these drainage areas. The berms consist of loosely packed backfill soil with a triangular profile, and their locations are shown on **Figure 5-2**. Photographs are provided in **Appendix A**.

# 6.0 REMAINING EXCAVATION ACTIVITIES

**Sections 3.0, 4.0,** and **5.0** summarize the excavation, confirmation sampling, and backfilling activities that were completed. The activities remaining to be completed with unexploded ordnance construction support consist of, but are not limited to, the following tasks:

- Excavation, loading, and transportation for disposal of soil from Areas H and J to the originally planned extent (approximately 333 in-place CY).
- Overexcavation, loading, transportation, and disposal of soil from Areas H, K, L, M, and N (unknown volume).
- Collection and analysis of originally planned confirmation samples from Area H (1 wall and 5 floor) and Area J (1 wall) for 2,4-dinitrotoluene, 2,6-dinitrotoluene, and 2,4,6-trinitrotoluene.
- Collection of confirmation samples from overexcavation areas in Areas H, K, L, M, and N.
- Loading and transport of previously excavated soil for disposal.
- Backfilling of remaining original areas to be excavated in Areas H and J and overexcavation areas in Areas H, K, L, M, and N.

The general areas where sampling, excavation, or resampling are likely to be needed are shown on **Figure 6-1**. The plan for performing the necessary additional activities will be presented in a future work plan document.

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# Tables

**Table 4-1**
**Confirmation Sample Analytical Results**

| | Location Code | | 17FL001-07 | | 17FL002-07 | | 17FL003-03 | | 17FL004-03 | | 17FL005-03 | | 17FL007-03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | 17FL001-07-190905 | | 17FL002-07-190905 | | 17FL003-03-190822 | | 17FL004-03-190823 | | 17FL005-03-190918 | | 17FL007-03-190822 | |
| | Sample Date | | 9/5/2019 | | 9/5/2019 | | 8/22/2019 | | 8/23/2019 | | 9/18/2019 | | 8/22/2019 | |
| | Location Description | | Area D, North 1/2 Floor | | Area D, South 1/2 Floor | | Area H, NW Floor | | Area H, NW Floor | | Area H, N Central Floor | | Area H, SW Floor | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | < 29.4 | U | < 29.6 | U | < 30 | U | 240 | | 2440 | | < 29.1 | U |
| 2,4-Dinitrotoluene | ug/kg | 42 | < 29.4 | U | < 29.6 | U | < 30 | U | < 30.1 | U | **1720** | | < 29.1 | U |
| 2,6-Dinitrotoluene | ug/kg | 42 | < 29.4 | U | < 29.6 | U | < 30 | U | < 30.1 | U | < 30 | U | < 29.1 | U |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 4-1**
**Confirmation Sample Analytical Results**

| | Location Code | | 17FL008-03 | | 17FL009-03 | | 17FL010-03 | | 17FL011-03 | | 17FL015-07 | | 17FL017-2.5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | 17FL008-03-190822 | | 17FL009-03-190918 | | 17FL010-03-190918 | | 17FL011-03-190926 | | 17FL015-07-190926 | | 17FL017-2.5-190923 | |
| | Sample Date | | 8/22/2019 | | 9/18/2019 | | 9/18/2019 | | 9/26/2019 | | 9/26/2019 | | 9/23/2019 | |
| | Location Description | | Area H, SW Floor | | Area H, S Central Floor | | Area H, Central Floor | | Area H, S Floor | | Area H, Western Deep Floor | | Area N, Shallow Floor | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | < 29.5 | U | 807 | | 850 | | < 28.9 | U | < 29.8 | U | 902 | |
| 2,4-Dinitrotoluene | ug/kg | 42 | < 29.5 | U | < 30.6 | U | **99.9** | | < 28.9 | U | < 29.8 | U | **92.5** | |
| 2,6-Dinitrotoluene | ug/kg | 42 | < 29.5 | U | < 30.6 | U | **64.3** | | < 28.9 | U | < 29.8 | U | < 30.3 | U |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 4-1**
**Confirmation Sample Analytical Results**

| | | | Location Code | 17WL001-02 | | 17WL002-02 | | 17WL003-02 | | 17WL004-02 | | 17WL005-07 | | 17WL006-07 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample ID | 17WL001-02-190826 | | 17WL002-02-190905 | | 17WL003-02-190905 | | 17LW004-02-190905 | | 17WL005-07-190905 | | 17WL006-07-190905 | |
| | | | Sample Date | 8/26/2019 | | 9/5/2019 | | 9/5/2019 | | 9/5/2019 | | 9/5/2019 | | 9/5/2019 | |
| | | | Location Description | Area A, Walls & Floor | | Area C, East Wall | | Area C, North Wall | | Area C, West Wall | | Area D, West Wall | | Area D, East Wall | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | | NA | | NA | | NA | | NA | | < 30.6 | U | < 30.2 | U |
| 2,4-Dinitrotoluene | ug/kg | 42 | | NA | | NA | | NA | | NA | | < 30.6 | U | < 30.2 | U |
| 2,6-Dinitrotoluene | ug/kg | 42 | | NA | | NA | | NA | | NA | | < 30.6 | U | < 30.2 | U |
| METALS | | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | | 151 | | 451 | | 133 | | 506 | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 4-1**
**Confirmation Sample Analytical Results**

| | Location Code | | 17WL007-02 | | | | 17WL008-02 | | | | 17WL009-03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | 17WL007-02-190826 | | 17WL007-02-190918 | | 17WL008-02-190826 | | 17WL008-02-190918 | | 17WL009-03-190823 | | 17WL009-03-190918 | |
| | Sample Date | | 8/26/2019 | | 9/18/2019 | | 8/26/2019 | | 9/18/2019 | | 8/23/2019 | | 9/18/2019 | |
| | Location Description | | Area E, NE Wall | | Area E, NE Wall Stepout | | Area E, SE Wall | | Area E, SE Wall Stepout | | Area H, Western N Wall | | Area H, Western N Wall Stepout | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | NA | | NA | | NA | | NA | | 1270 | | < 27.1 | U |
| 2,4-Dinitrotoluene | ug/kg | 42 | NA | | NA | | NA | | NA | | **297** | | < 27.1 | U |
| 2,6-Dinitrotoluene | ug/kg | 42 | NA | | NA | | NA | | NA | | **156** | | < 27.1 | U |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | **1330** | | 479 | | **1910** | | 449 | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 4-1**
**Confirmation Sample Analytical Results**

| | Location Code | | 17WL011-03 | | 17WL013-03 | | | | 17WL014-7.5 | | 17WL015-5.5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | 17WL011-03-190822 | | 17WL013-03-190823 | | 17WL013-03-190918 | | 17WL014-7.5-190926 | | 17WL015-5.5-190926 | |
| | Sample Date | | 8/22/2019 | | 8/23/2019 | | 9/18/2019 | | 9/26/2019 | | 9/26/2019 | |
| | Location Description | | Area H, West Wall | | Area H, South Wall | | Area H, South Wall Stepout | | Area J, Deep N Wall | | Area J, West Wall | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | < 27.9 | U | 119 | | **82000** | | < 30.2 | U | 301 | |
| 2,4-Dinitrotoluene | ug/kg | 42 | < 27.9 | U | **75** | | **290** | | < 30.2 | U | < 31.2 | U |
| 2,6-Dinitrotoluene | ug/kg | 42 | < 27.9 | U | < 31.4 | U | < 30 | U | < 30.2 | U | < 31.2 | U |
| METALS | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 4-1**
**Confirmation Sample Analytical Results**

| | Location Code | | 17WL017-2.5 | | 17WL017-2.5 | | 17WL018-2.5 | | 17WL018-2.5 | | 17WL019-05 | | 17WL020-2.5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | 17WL017-2.5-190905 | | 17WL017-2.5-190918 | | 17WL018-2.5-190905 | | 17WL018-2.5-190918 | | 17WL019-05-190918 | | 17WL020-2.5-190918 | |
| | Sample Date | | 9/5/2019 | | 9/18/2019 | | 9/5/2019 | | 9/18/2019 | | 9/18/2019 | | 9/18/2019 | |
| | Location Description | | Area K, East Wall | | Area K, East Wall, Stepout | | Area K, South Wall | | Area K, South Wall, Stepout | | Area L, North Wall | | Area L, West Wall | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | **47900** | | 122 | | 795 | | < 29.6 | U | **28500** | | 920 | |
| 2,4-Dinitrotoluene | ug/kg | 42 | **976** | | **75.6** | | **269** | | < 29.6 | U | **313** | | **283** | |
| 2,6-Dinitrotoluene | ug/kg | 42 | **392** | | < 30.1 | U | < 27 | U | < 29.6 | U | < 26.9 | U | **133** | |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 4-1**
**Confirmation Sample Analytical Results**

| | Location Code | | 17WL021-2.5 | | 17WL022-2.5 | | 17WL023-2.5 | | 17WL024-2.5 | | 17WL025-7.5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample ID | | 17WL021-2.5-190918 | | 17WL022-2.5-190923 | | 17WL023-2.5-190923 | | 17WL024-2.5-190923 | | 17WL025-7.5-190923 | |
| | Sample Date | | 9/18/2019 | | 9/23/2019 | | 9/23/2019 | | 9/23/2019 | | 9/23/2019 | |
| | Location Description | | Area L, South Wall | | Area M, North Wall | | Area M, West Wall | | Area M, South Wall | | Area M, Deep All Walls | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | < 26.8 | U | 566 | | **1150000** | | **5660000** | | **6530** | |
| 2,4-Dinitrotoluene | ug/kg | 42 | < 26.8 | U | **55.7** | | **1940** | | **7450** | | **3840** | |
| 2,6-Dinitrotoluene | ug/kg | 42 | < 26.8 | U | **52.4** | | **74.2** | | **16300** | | **648** | |
| METALS | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 4-1**
**Confirmation Sample Analytical Results**

| | Location Code | | 17WL026-2.5 | | 17WL027-2.5 | | 17WL028-2.5 | |
|---|---|---|---|---|---|---|---|---|
| | Sample ID | | 17WL026-2.5-190923 | | 17WL027-2.5-190923 | | 17WL028-2.5-190923 | |
| | Sample Date | | 9/23/2019 | | 9/23/2019 | | 9/23/2019 | |
| | Location Description | | Area N, North Wall | | Area N, East Wall | | Area N, South Wall | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | |
| 2,4,6-Trinitrotoluene | ug/kg | 5100 | < 26.5 | U | 219 | | **413000** | |
| 2,4-Dinitrotoluene | ug/kg | 42 | < 26.5 | U | 41.2 | | **1170** | |
| 2,6-Dinitrotoluene | ug/kg | 42 | < 26.5 | U | < 26.7 | U | **1050** | |
| METALS | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 5-1**
**Investigation and Confirmation Sample Analytical Results**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Excavation Area | Area A | | | | | | | | Area B | | | |
| | | Location Code | 17WL001-02 | | 17SS48 | | 17SS49 | | 17SS51 | | 17SS75 | | 17SS76 | |
| | | Sample Identification | 17WL001-02-190826 | | 17SS48-0.0-0.5 | | 17SS49-0.0-0.5 | | 17SS51-0.0-0.5 | | 17SS75-0.0-0.5 | | 17SS76-0.0-0.5 | |
| | | Sample Date | 8/26/2019 | | 1/14/2018 | | 1/14/2018 | | 1/14/2018 | | 8/8/2018 | | 8/8/2018 | |
| | | Location Description/ Depth (feet bgs) | Walls & Floor Composite | | Soil Boring 0 - 0.5 | | Soil Boring 0 - 0.5 | | Soil Boring 0 - 0.5 | | Soil Boring 0.0 - 0.5 | | Soil Boring 0.0 - 0.5 | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | µg/kg | 5100 | NA | | NA | | NA | | NA | | NA | | NA | |
| 2,4-Dinitrotoluene | µg/kg | 42 | NA | | NA | | NA | | NA | | NA | | NA | |
| 2,6-Dinitrotoluene | µg/kg | 42 | NA | | NA | | NA | | NA | | NA | | NA | |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | 151 | | 132 | | 129 | | 125 | | 78.9 | | 88.1 | |
| DIOXINS | | | | | | | | | | | | | | |
| 2,3,7,8-TCDD TEC | mg/kg | $4 \times 10^{-6}$ | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP. The LHAAP-17 Cleanup Value for 2,3,7,8-TCDD TEC is the surface soil ecological primary remediation goal (0 -0.5 feet bgs) from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

bgs - below ground surface

TCDD - tetrachlorodibenzo-p-dioxin

TEC - toxicity equivalence concentration

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 5-1**
**Investigation and Confirmation Sample Analytical Results**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Excavation Area | Area B | | | | Area C | | | | | | | |
| | | Location Code | 17SS77 | | 17SS78 | | 17WL002-02 | | 17WL003-02 | | 17WL004-02 | | 17SS70 | |
| | | Sample Identification | 17SS77-0.0-0.5 | | 17SS78-0.0-0.5 | | 17WL002-02-190905 | | 17WL003-02-190905 | | 17LW004-02-190905 | | 17SS70-0.0-0.5 | |
| | | Sample Date | 8/8/2018 | | 8/8/2018 | | 9/5/2019 | | 9/5/2019 | | 9/5/2019 | | 8/9/2018 | |
| | | Location Description/ Depth (feet bgs) | Soil Boring 0.0 - 0.5 | | Soil Boring 0.0 - 0.5 | | East Wall Composite | | North Wall Composite | | West Wall Composite | | Soil Boring 0 - 0.5 | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | µg/kg | 5100 | NA | | NA | | NA | | NA | | NA | | NA | |
| 2,4-Dinitrotoluene | µg/kg | 42 | NA | | NA | | NA | | NA | | NA | | NA | |
| 2,6-Dinitrotoluene | µg/kg | 42 | NA | | NA | | NA | | NA | | NA | | NA | |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | 90.5 | | 72.8 | | 451 | | 133 | | 506 | | 120 | |
| DIOXINS | | | | | | | | | | | | | | |
| 2,3,7,8-TCDD TEC | mg/kg | $4 \times 10^{-6}$ | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP. The LHAAP-17 Cleanup Value for 2,3,7,8-TCDD TEC is the surface soil ecological primary remediation goal (0 -0.5 feet bgs) from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

bgs - below ground surface

TCDD - tetrachlorodibenzo-p-dioxin

TEC - toxicity equivalence concentration

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 5-1**
**Investigation and Confirmation Sample Analytical Results**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Excavation Area | Area D | | | | | | | | | | | |
| | | Location Code | 17FL001-07 | | 17FL002-07 | | 17WL005-07 | | 17WL006-07 | | 17SS71 | | | |
| | | Sample Identification | 17FL001-07-190905 | | 17FL002-07-190905 | | 17WL005-07-190905 | | 17WL006-07-190905 | | 17SS71-0.0-2.0 | | 17SS71-5.0-7.0 | |
| | | Sample Date | 9/5/2019 | | 9/5/2019 | | 9/5/2019 | | 9/5/2019 | | 8/9/2018 | | 8/9/2018 | |
| | | Location Description/ Depth (feet bgs) | North 1/2 Floor Composite | | South 1/2 Floor Composite | | West Wall Composite | | East Wall Composite | | Soil Boring 0.0 - 2.0 | | Soil Boring 5.0 - 7.0 | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | µg/kg | 5100 | < 29.4 | U | < 29.6 | U | < 30.6 | U | < 30.2 | U | < 28.1 | U | < 28.8 | U |
| 2,4-Dinitrotoluene | µg/kg | 42 | < 29.4 | U | < 29.6 | U | < 30.6 | U | < 30.2 | U | < 28.1 | U | < 28.8 | U |
| 2,6-Dinitrotoluene | µg/kg | 42 | < 29.4 | U | < 29.6 | U | < 30.6 | U | < 30.2 | U | < 28.1 | U | < 28.8 | U |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | | NA | |
| DIOXINS | | | | | | | | | | | | | | |
| 2,3,7,8-TCDD TEC | mg/kg | 4 x $10^{-6}$ | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP. The LHAAP-17 Cleanup Value for 2,3,7,8-TCDD TEC is the surface soil ecological primary remediation goal (0 -0.5 feet bgs) from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

bgs - below ground surface

TCDD - tetrachlorodibenzo-p-dioxin

TEC - toxicity equivalence concentration

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 5-1**
**Investigation and Confirmation Sample Analytical Results**

| | | Excavation Area | Area D | | | | Area E | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Location Code | 17SS74 | | | | 17WL007-02 | | 17WL008-02 | | 17SS52 | | 17SS53 | |
| | | Sample Identification | 17SS74-0.0-2.0 | | 17SS74-5.0-7.0 | | 17WL007-02-190918 | | 17WL008-02-190918 | | 17SS52-0.0-0.5 | | 17SS53-0.0-0.5 | |
| | | Sample Date | 8/9/2018 | | 8/9/2018 | | 9/18/2019 | | 9/18/2019 | | 1/13/2018 | | 1/13/2018 | |
| | | Location Description/ Depth (feet bgs) | Soil Boring 0.0 - 2.0 | | Soil Boring 5.0 - 7.0 | | NE Wall Stepout Composite | | SE Wall Stepout Composite | | Soil Boring 0 - 0.5 | | Soil Boring 0 - 0.5 | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | µg/kg | 5100 | < 26.8 | U | < 31.5 | U | NA | | NA | | NA | | NA | |
| 2,4-Dinitrotoluene | µg/kg | 42 | < 26.8 | U | < 31.5 | U | NA | | NA | | NA | | NA | |
| 2,6-Dinitrotoluene | µg/kg | 42 | < 26.8 | U | < 31.5 | U | NA | | NA | | NA | | NA | |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | 479 | | 449 | | 154 | | 150 | |
| DIOXINS | | | | | | | | | | | | | | |
| 2,3,7,8-TCDD TEC | mg/kg | $4 \times 10^{-6}$ | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP. The LHAAP-17 Cleanup Value for 2,3,7,8-TCDD TEC is the surface soil ecological primary remediation goal (0 -0.5 feet bgs) from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

bgs - below ground surface

TCDD - tetrachlorodibenzo-p-dioxin

TEC - toxicity equivalence concentration

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 5-1**
**Investigation and Confirmation Sample Analytical Results**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Excavation Area | Area F | | | | | | | | Area G | | | |
| | | Location Code | 17SS79 | | 17SS80 | | 17SS81 | | 17SS82 | | 17SS99 | | | |
| | | Sample Identification | 17SS79-0.0-0.5 | | 17SS80-0.0-0.5 | | 17SS81-0.0-0.5 | | 17SS82-0.0-0.5 | | 17SS99-0.0-2.0 | | 17SS99-2.5-4.5 | |
| | | Sample Date | 1/15/2018 | | 1/15/2018 | | 1/15/2018 | | 1/15/2018 | | 1/12/2018 | | 1/12/2018 | |
| | | Location Description/ Depth (feet bgs) | Soil Boring 0 - 0.5 | | Soil Boring 0 - 0.5 | | Soil Boring 0 - 0.5 | | Soil Boring 0 - 0.5 | | Soil Boring 0 - 2 | | Soil Boring 2.5 - 4.5 | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | µg/kg | 5100 | NA | | NA | | NA | | NA | | < 30.6 | U | < 30.1 | U |
| 2,4-Dinitrotoluene | µg/kg | 42 | NA | | NA | | NA | | NA | | < 30.6 | U | < 30.1 | U |
| 2,6-Dinitrotoluene | µg/kg | 42 | NA | | NA | | NA | | NA | | < 30.6 | U | < 30.1 | U |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | 54.5 | | 62 | | 184 | | 95.3 | | NA | | NA | |
| DIOXINS | | | | | | | | | | | | | | |
| 2,3,7,8-TCDD TEC | mg/kg | $4 \times 10^{-6}$ | $1.13 \times 10^{-7}$ | J | $<1.82 \times 10^{-6}$ | U | $5.75 \times 10^{-7}$ | J | $<1.78 \times 10^{-6}$ | U | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP. The LHAAP-17 Cleanup Value for 2,3,7,8-TCDD TEC is the surface soil ecological primary remediation goal (0 -0.5 feet bgs) from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

bgs - below ground surface

TCDD - tetrachlorodibenzo-p-dioxin

TEC - toxicity equivalence concentration

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 5-1**
**Investigation and Confirmation Sample Analytical Results**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Excavation Area | | | Area G | | | | | | | | | | | |
| Location Code | | | 17SS99 | | 17SS100 | | | | | | 17SS101 | | | |
| Sample Identification | | | 17SS99-5.0-7.0 | | 17SS100-0.0-2.0 | | 17SS100-2.5-4.5 | | 17SS100-5.0-7.0 | | 17SS101-0.0-2.0 | | 17SS101-2.5-4.5 | |
| Sample Date | | | 1/12/2018 | | 1/12/2018 | | 1/12/2018 | | 1/12/2018 | | 1/12/2018 | | 1/12/2018 | |
| Location Description/ Depth (feet bgs) | | | Soil Boring 5 - 7 | | Soil Boring 0 - 2 | | Soil Boring 2.5 - 4.5 | | Soil Boring 5 - 7 | | Soil Boring 0 - 2 | | Soil Boring 2.5 - 4.5 | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | µg/kg | 5100 | < 30.5 | U | < 29.5 | U | < 29.8 | U | < 30.2 | U | < 29.5 | U | < 32.1 | U |
| 2,4-Dinitrotoluene | µg/kg | 42 | < 30.5 | U | < 29.5 | U | < 29.8 | U | < 30.2 | U | < 29.5 | U | < 32.1 | U |
| 2,6-Dinitrotoluene | µg/kg | 42 | < 30.5 | U | < 29.5 | U | < 29.8 | U | < 30.2 | U | < 29.5 | U | < 32.1 | U |
| METALS | | | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | | NA | |
| DIOXINS | | | | | | | | | | | | | | |
| 2,3,7,8-TCDD TEC | mg/kg | 4 x $10^{-6}$ | NA | | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP. The LHAAP-17 Cleanup Value for 2,3,7,8-TCDD TEC is the surface soil ecological primary remediation goal (0 -0.5 feet bgs) from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

bgs - below ground surface

TCDD - tetrachlorodibenzo-p-dioxin

TEC - toxicity equivalence concentration

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

**Table 5-1**
**Investigation and Confirmation Sample Analytical Results**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Excavation Area | Area G | | | | | | | | Area G | |
| | | Location Code | 17SS101 | | 17SS102 | | | | | | COE17-14A | |
| | | Sample Identification | 17SS101-5.0-7.0 | | 17SS102-0.0-2.0 | | 17SS102-2.5-4.5 | | 17SS102-5.0-7.0 | | COE17-14A-2.5-4.5 | |
| | | Sample Date | 1/12/2018 | | 1/12/2018 | | 1/12/2018 | | 1/12/2018 | | 1/12/2018 | |
| | | Location Description/ Depth (feet bgs) | Soil Boring 5 - 7 | | Soil Boring 0 - 2 | | Soil Boring 2.5 - 4.5 | | Soil Boring 5 - 7 | | Soil Boring 2.5 - 4.5 | |
| Analyte | Units | LHAAP-17 Cleanup Value [a] | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual | Result | Val Qual |
| EXPLOSIVES | | | | | | | | | | | | |
| 2,4,6-Trinitrotoluene | µg/kg | 5100 | < 32.9 | U | < 29.1 | U | < 30.6 | U | < 30.0 | U | < 27.9 | U |
| 2,4-Dinitrotoluene | µg/kg | 42 | < 32.9 | U | < 29.1 | U | < 30.6 | U | < 30.0 | U | < 27.9 | U |
| 2,6-Dinitrotoluene | µg/kg | 42 | < 32.9 | U | < 29.1 | U | < 30.6 | U | < 30.0 | U | < 27.9 | U |
| METALS | | | | | | | | | | | | |
| Barium | mg/kg | 520 | NA | | NA | | NA | | NA | | NA | |
| DIOXINS | | | | | | | | | | | | |
| 2,3,7,8-TCDD TEC | mg/kg | 4 x $10^{-6}$ | NA | | NA | | NA | | NA | | NA | |

Notes:

Blue highlighted concentrations in **bold** exceed the LHAAP-17 Cleanup Value.

[a] - The LHAAP-17 Cleanup Value for explosives is the human health value from Table 1-2 of the Remedial Design/Remedial Action Work Plan (RD/RAWP). The LHAAP-17 Cleanup Value for barium is the 0-3' ecological value from Table 1-3 of the RD/RAWP. The LHAAP-17 Cleanup Value for 2,3,7,8-TCDD TEC is the surface soil ecological primary remediation goal (0 -0.5 feet bgs) from Table 1-3 of the RD/RAWP.

NA - Sample was not analyzed for the analye

U - Undetected: The analyte was analyzed for, but not detected.

J - Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

bgs - below ground surface

TCDD - tetrachlorodibenzo-p-dioxin

TEC - toxicity equivalence concentration

µg/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

Val Qual - validation qualifier

## Table 5-2
## Backfill Source Analytical Results

| Location | Aluminum (mg/kg) | Arsenic (mg/kg) | Barium (mg/kg) | Chromium (mg/kg) | Lead (mg/kg) | Vanadium (mg/kg) | Perchlorate (µg/kg) | VOCs | Explosives | 2,3,7,8-TCDD (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| Moore Pit | | | | | | | | | | |
| BS-3 | 5,610 | 4.18 | 32.3 | 11.8 | 4.29 | 26 | 11 U | ND | ND | $7.49 \times 10^{-7}$ U |
| BS-5 | 11,500 | 5.91 | 11.2 | 16.3 | 6.37 | 42.9 | 11 U | ND | ND | $1.09 \times 10^{-6}$ U |
| *Cleanup Values* | *25,800* [a] | *6.15* [a] | *222* [b] | *38.6* [a] | *12.9* [a] | *72* [c] | *7.2* [c] | *NV* | *NV* | *$4x10^{-6}$* [b] |

Notes:

[a] The Cleanup Value shown is the 95% Upper Tolerance Limit (UTL) from the 2004 Final Background Study for LHAAP

[b] The Cleanup Value shown is the Ecological Primary Remediation Goal (EcoPRG) for 0.0 to 0.5 feet below ground surface from Table 1-3 of the RD/RAWP

[c] The Cleanup Value shown is the Risk Reduction Standard Number 2 Groundwater Protective (GWP) soil concentration for non-residential land use

Bold - Exceeds the RRS2 GWP-Ind or the LHAAP 95% UTL Background value

ND - No analyte in the analyte list was detected above the applicable limit of detection

NV - No Cleanup Value is shown for VOCs or Explosives because all analytes were below their applicable limit of detection

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

VOCs - Volatile organic compounds

2,3,7,8-TCDD - tetrachlorodibenzo-p-dioxin

# Figures

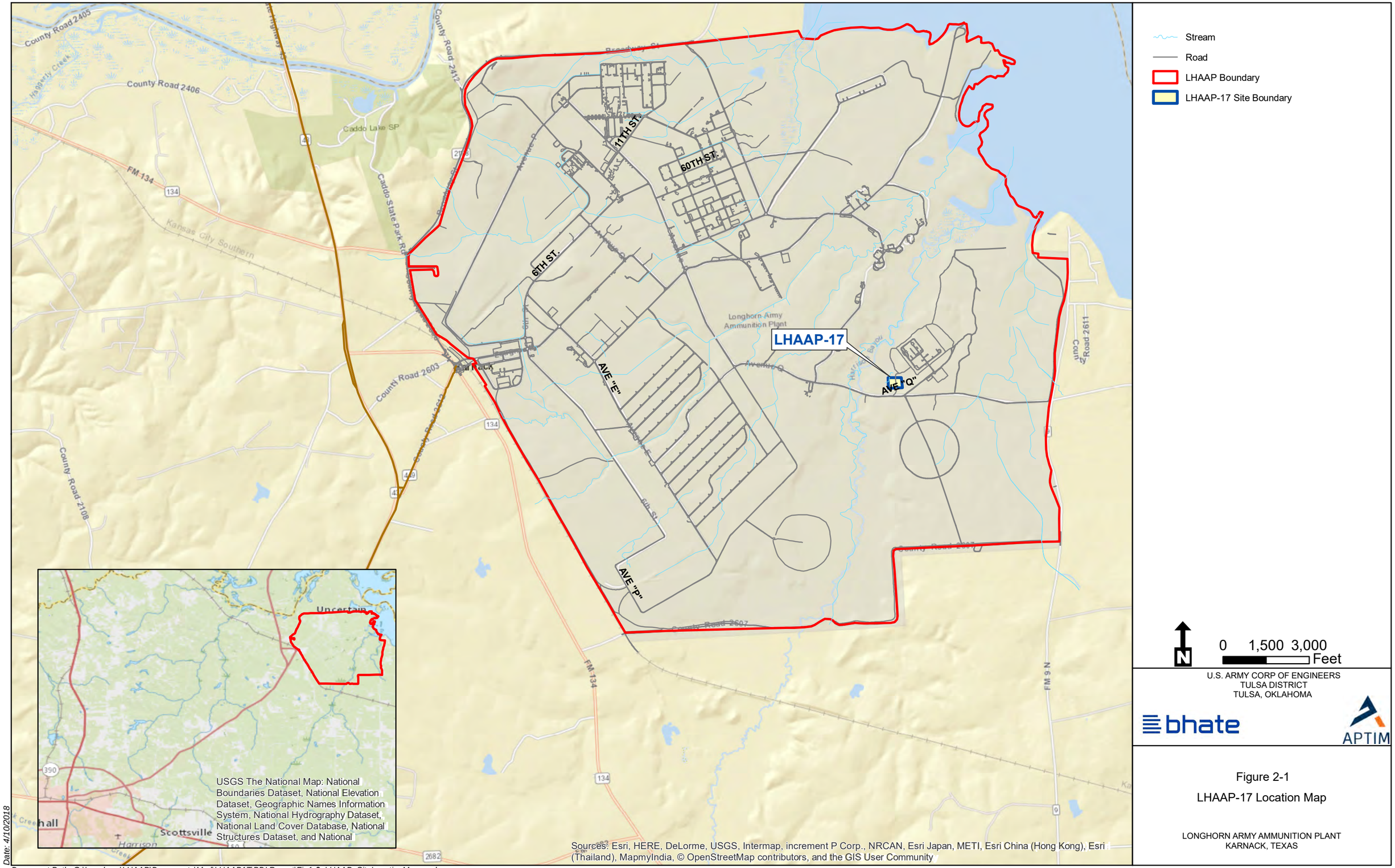


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Figure 2-1

LHAAP-17 Location Map

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 4/10/2018

*Document Path: G:\Longhorn\LHAAP\Documents\Mxd\LHAAP17\PDI Report\Fig1-2_LHAAP_SiteLocationMap.mxd*

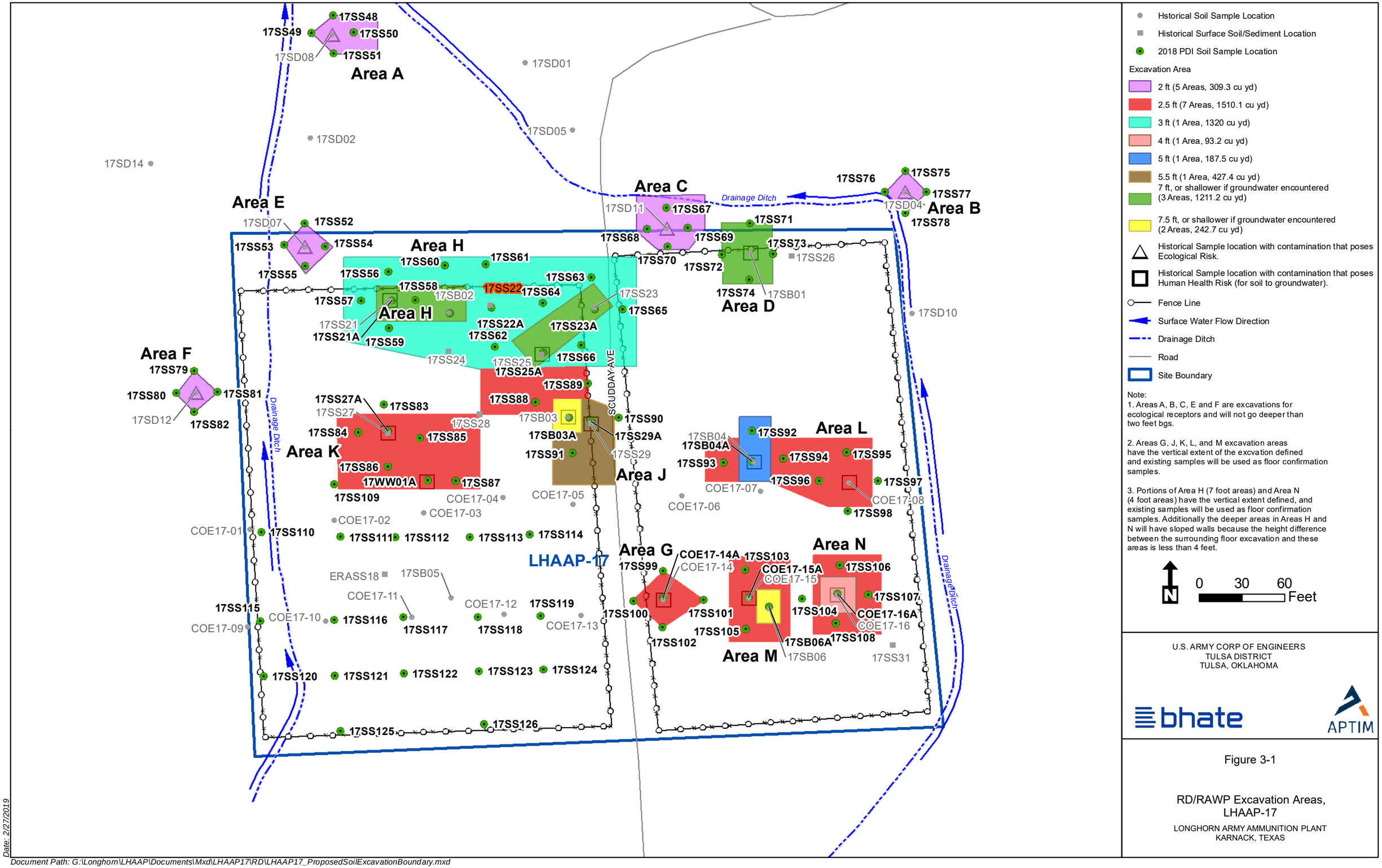


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Figure 3-1

RD/RAWP Excavation Areas,
LHAAP-17

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 2/27/2019

Document Path: G:\Longhorn\LHAAP\Documents\Mxd\LHAAP17\RD\LHAAP17_ProposedSoilExcavationBoundary.mxd

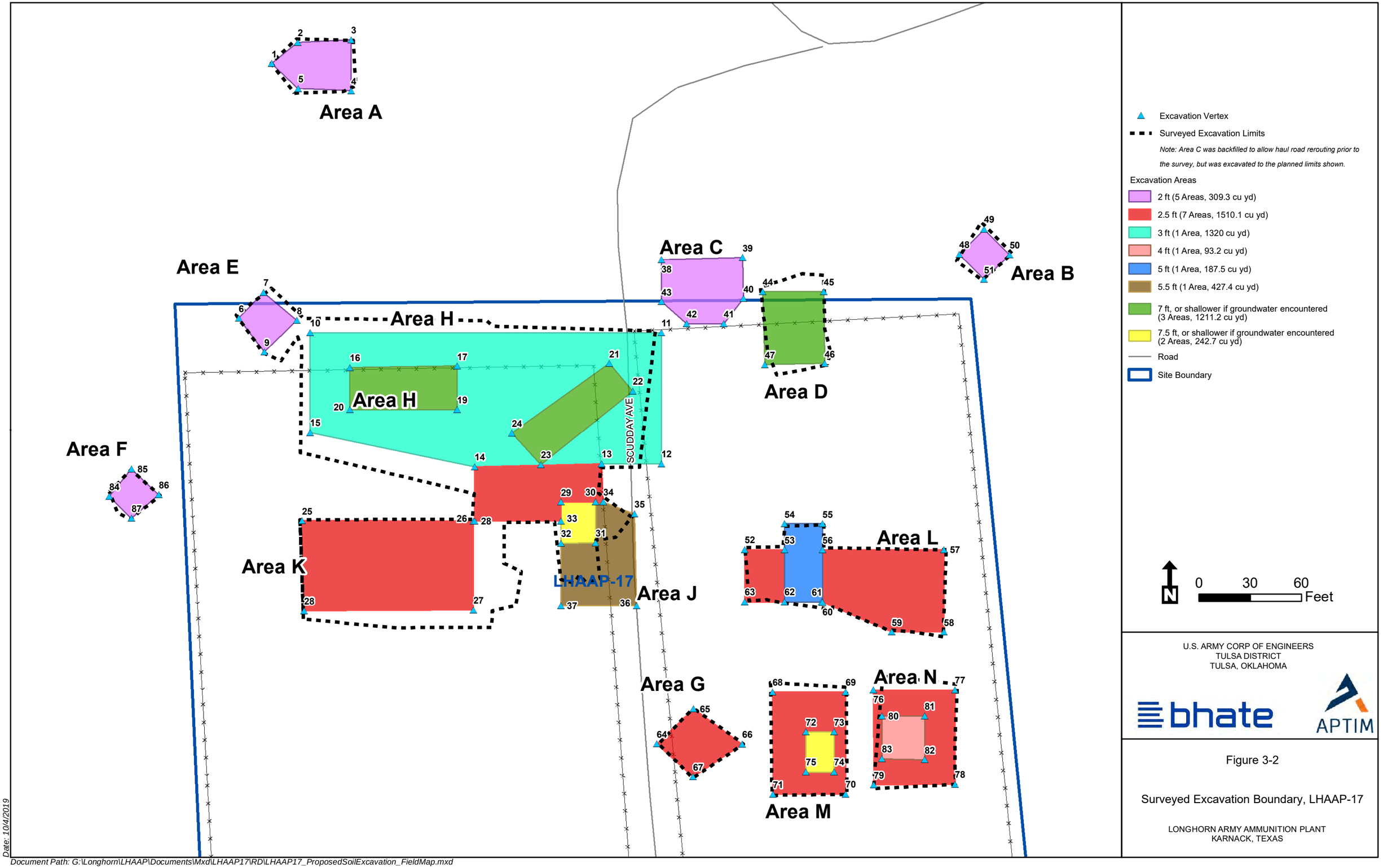


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Figure 3-2

Surveyed Excavation Boundary, LHAAP-17

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 10/4/2019

Document Path: G:\Longhorn\LHAAP\Documents\Mxd\LHAAP17\RD\LHAAP17_ProposedSoilExcavation_FieldMap.mxd

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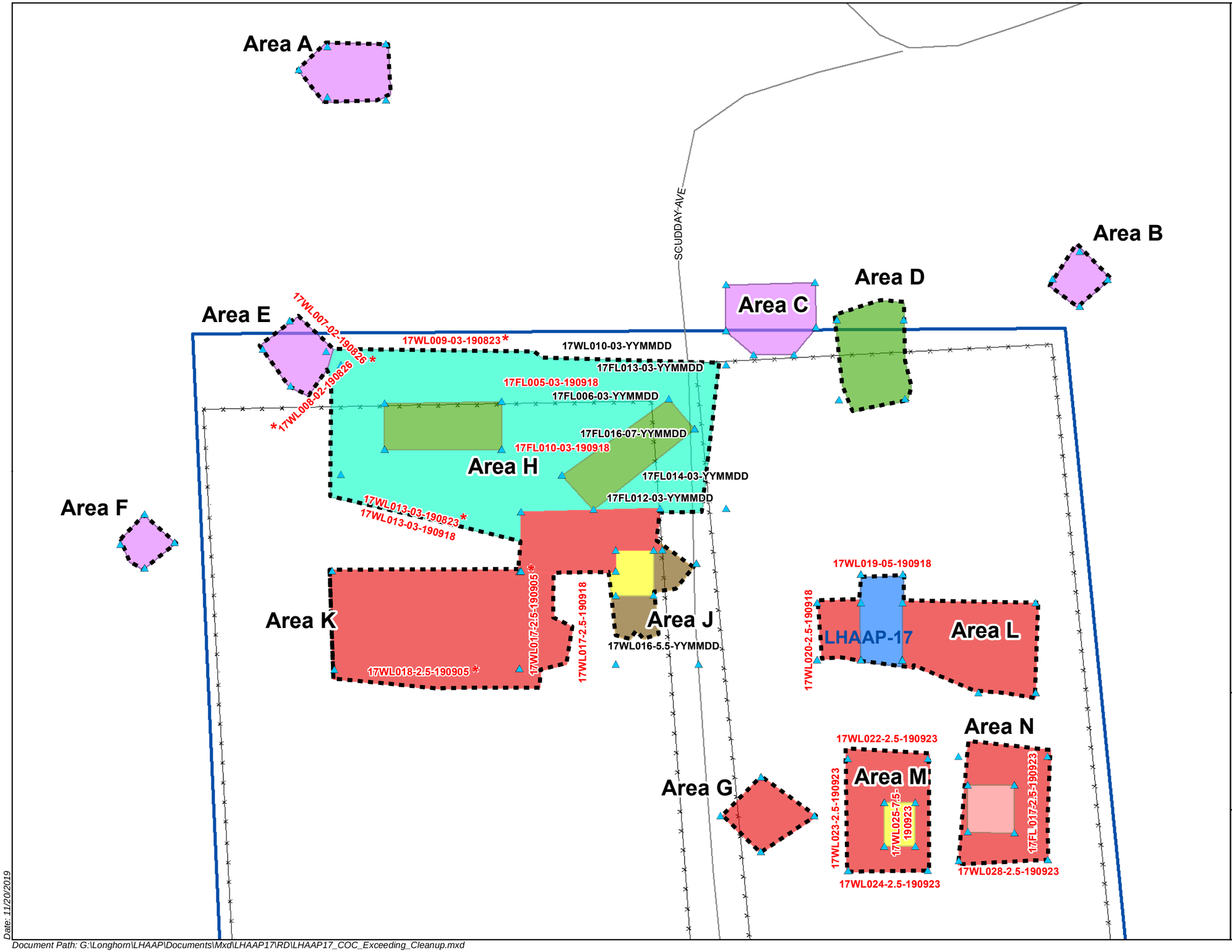
Figure 4-1

Confirmation Samples with Results Below the Cleanup Values

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 11/20/2019

Document Path: G:\Longhorn\LHAAP\Documents\Mxd\LHAAP17\RD\LHAAP17_COC_Below_Cleanup.mxd




17WL019-05-190918 COC Concentrations Exceeded Cleanup Levels

17FL012-03-YYMMDD Sample Not Yet Collected

- Planned Excavation Corner
- Surveyed Excavation Limits
- 2 ft
- 2.5 ft
- 3 ft
- 4 ft
- 5 ft
- 5.5 ft
- 7 ft
- 7.5 ft
- Road
- Site Boundary

* Samples shown with an asterisk next to the sample identification contained concentrations that exceeded the cleanup value for one or more COC and were resampled following overexcavation.

N 0 30 60 Feet

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Figure 4-2

Confirmation Samples with Results Exceeding the Cleanup Values

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 11/20/2019

Document Path: G:\Longhorn\LHAAP\Documents\Mxd\LHAAP17\RD\LHAAP17_COC_Exceeding_Cleanup.mxd

17SD06
17SD01
17SD02
17SD05
17SD14
17SD07
17SD08
17SD11
17SD04
17SD10
17SD12
17SD13
17SD09
17SD03

17SS48
17SS49
17SS50
17SS51
17SS52
17SS53
17SS54
17SS55
17SS56
17SS57
17SS58
17SS59
17SS60
17SS61
17SS62
17SS63
17SS64
17SS65
17SS66
17SS67
17SS68
17SS69
17SS70
17SS71
17SS72
17SS73
17SS74
17SS75
17SS76
17SS77
17SS78
17SS79
17SS80
17SS81
17SS82
17SS83
17SS84 (2.5')
17SS85
17SS86 (2.5')
17SS87 (2.5')
17SS88 (2.5')
17SS89
17SS90
17SS91 (5.5')
17SS92 (5')
17SS93 (2.5')
17SS94 (2.5')
17SS95
17SS96
17SS97
17SS98
17SS99
17SS100
17SS101
17SS102
17SS103 (2.5')
17SS104
17SS105 (2.5')
17SS106
17SS107
17SS108 (2.5)
17SS109
17SS110
17SS111
17SS112
17SS113
17SS114
17SS115
17SS116
17SS117
17SS118
17SS119
17SS120
17SS121
17SS122
17SS123
17SS124
17SS125
17SS126

17SS21A (7')
17SS22A (3')
17SS23A
17SS24
17SS25A (7')
17SS27A (2.5')
17SS28
17SS29A (5.5')
17SB01A
17SB02A
17SB03A
17SB04A (5')
17SB06A (7.5')
COE 17-08A (2.5')
COE17-14A (2.5')
COE17-15A
COE17-16A (4')

17SS21
17SS22
17SS23
17SS25
17SS26
17SS27
17SS29
17SS31
17SB01
17SB02
17SB04
17SB05
17SB06
17WW01
17WW01A (2.5')
ERASS18
COE17-01
COE17-02
COE17-03
COE17-04
COE17-05
COE17-06
COE17-07
COE17-08
COE17-09
COE17-10
COE17-11
COE17-12
COE17-13
COE17-14
COE17-15
COE17-16

Drainage Ditch
Drainage Ditch
Drainage Ditch
Drainage Ditch
SCUDDAY AVE

LHAAP-17

Hstorical Soil Sample Location
Historical Surface Soil/Sediment Location
2018 PDI Soil Sample Location
Historical Sample location with contamination that poses Ecological Risk.
Fence Line
Surface Water Flow Direction
Drainage Ditch
Road
Site Boundary
Excavation Area

17SS92 = Existing samples to be used for vertical excavation limits and confirmation samples
17SS97 = Existing samples to be used for lateral excavation limits and confirmation samples

N
0 30 60
Feet

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Figure 4-3

Existing Sample Locations Used for Excavation Confirmation

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 11/12/2018

Document Path: G:\Longhorn\LHAAP\Documents\Mxd\LHAAP17\RD\LHAAP17_ExistingSampleLocationsExcConf.mxd

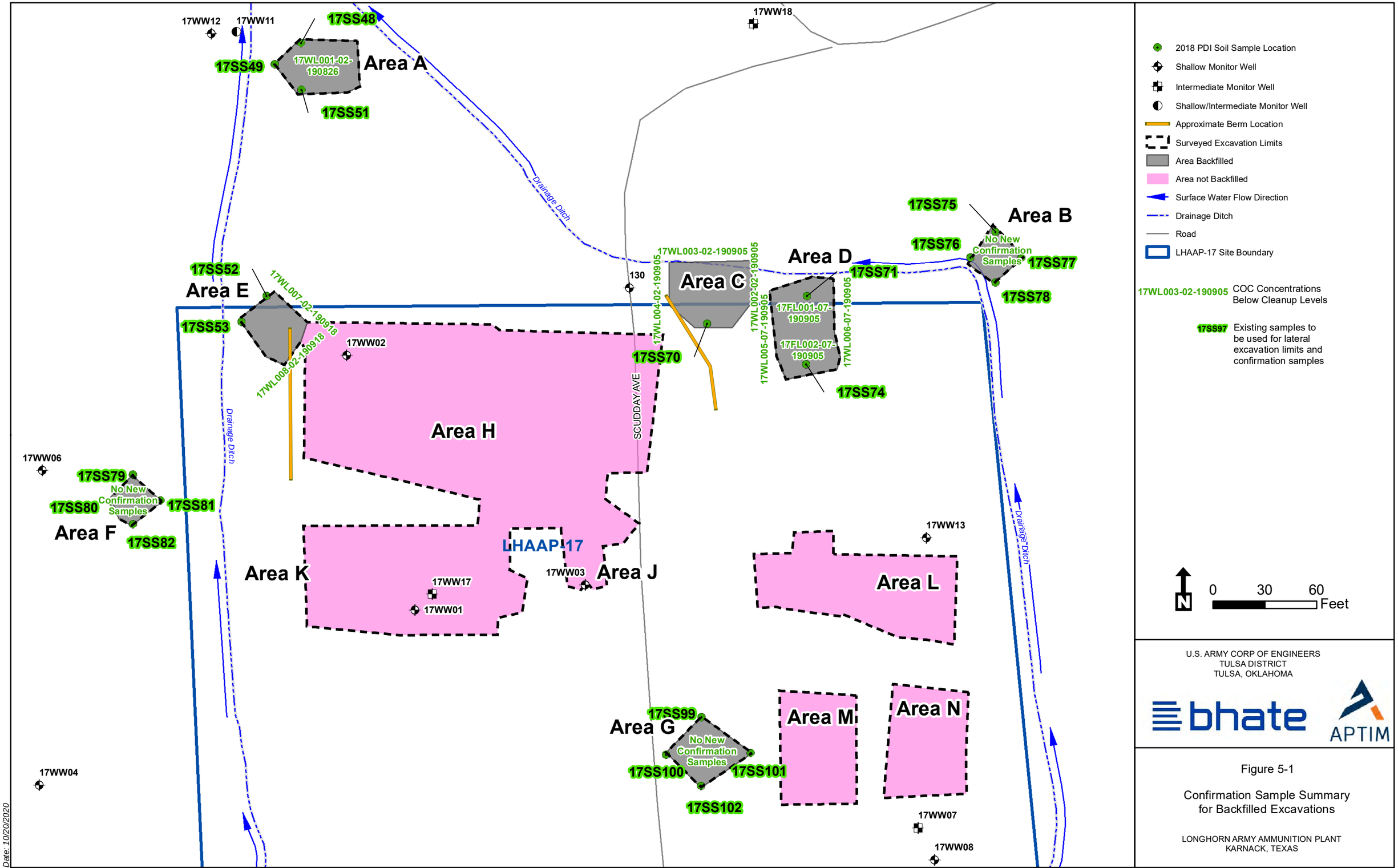


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Figure 5-1

Confirmation Sample Summary for Backfilled Excavations

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 10/20/2020

Document Path: F:\Projects\Longhorn\LHAAP\Documents\Mxd\LHAAP17\BackfillReport\LHAAP17_ConfirmationSampleSummaryBackfillExc.mxd

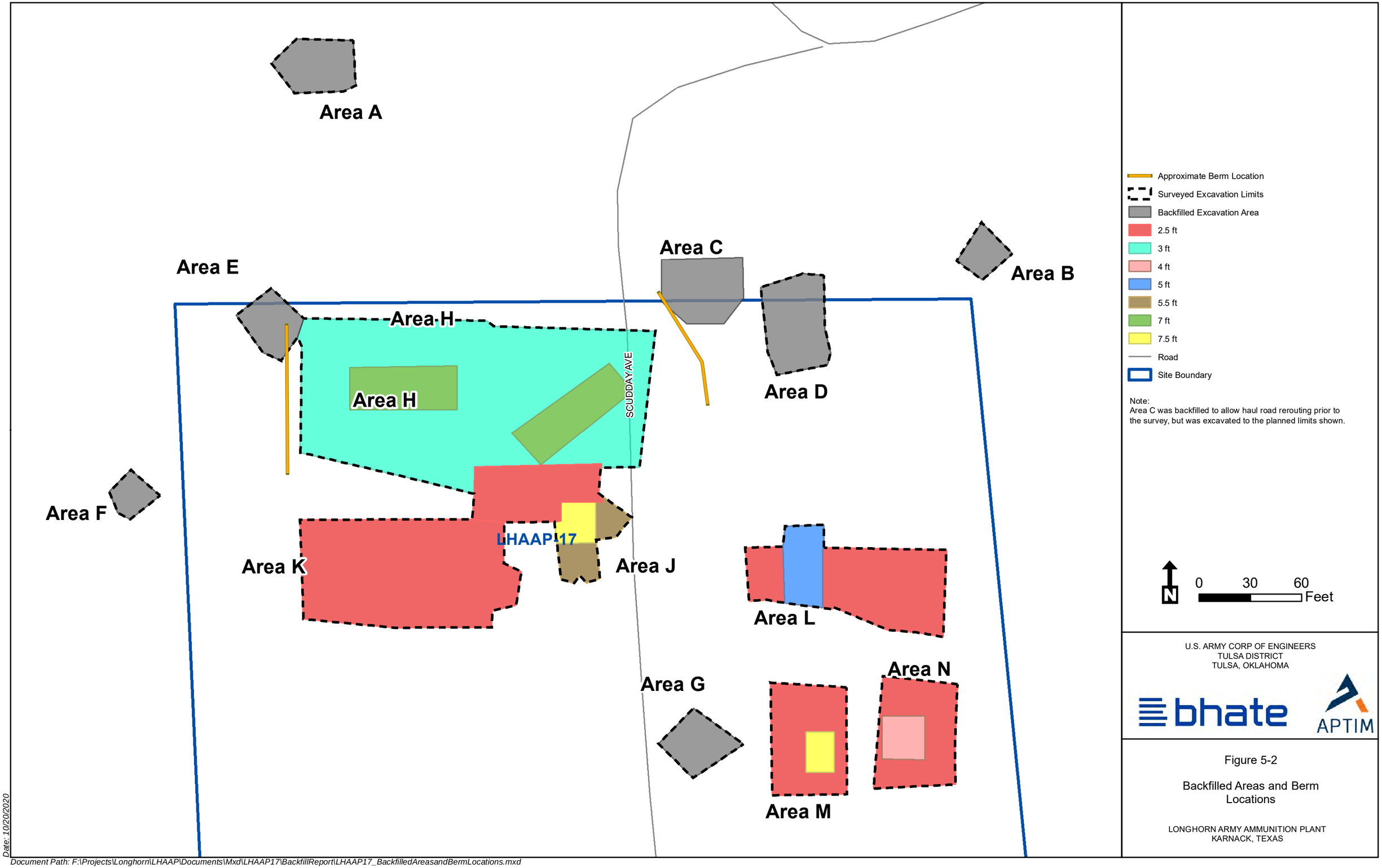


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Figure 5-2

Backfilled Areas and Berm Locations

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 10/20/2020

Document Path: F:\Projects\Longhorn\LHAAP\Documents\Mxd\LHAAP17\BackfillReport\LHAAP17_BackfilledAreasandBermLocations.mxd

17FL012-03-YYMMDD Sample Not Yet Collected

Approximate Berm Location

Excavation walls requiring further excavation to complete planned excavation extent, or overexcavation based on existing confirmation sample results

Excavation floor areas requiring further excavation based on existing confirmation samples.

2.5 ft

3 ft

4 ft

5 ft

5.5 ft

7 ft

7.5 ft

Road

Site Boundary

Note:
Additional confirmation samples will be collected for wall and floor areas where overexcavation is necessary. The number and location of those samples will be discussed in a forthcoming work plan and may change based on the amount of overexcavation required.

N

0 30 60 Feet

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Figure 6-1

Remaining Excavation and Sampling Areas

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Date: 3/3/2021

Document Path: F:\Projects\Longhorn\LHAAP\Documents\Mxd\LHAAP17\BackfillReport\LHAAP17_RemainingExcavationandSamplingAreas.mxd

# Appendix A

# Site Photographs

# Appendix A – Site Photographs

**Truck being tarped after loading with excavated soil from Area H (August 21, 2019)**

**View of Area H excavation looking to northwest (August 21, 2019)**

# Appendix A – Site Photographs

**Area F excavation complete (August 22, 2019)**

**Area E completed (August 26, 2019)**

# Appendix A – Site Photographs

**Area K excavation in progress (August 27, 2019)**

**Area C excavation (August 29, 2019)**

# Appendix A – Site Photographs

**Area B excavation complete (August 29, 2019)**

**Groundwater encountered at 6.5 feet below ground surface in Area D (August 29, 2019)**

# Appendix A – Site Photographs

**4.2-inch mortar shell encountered in Area N (August 30, 2019)**

**Southern site entrance roads barricaded after munition item was found (August 30, 2019)**

# Appendix A – Site Photographs

**Area L excavation complete (September 7, 2019)**

**2nd 4.2-inch mortar round found in stockpile while excavating Area M (September 7, 2019)**

# Appendix A – Site Photographs

**2nd 4.2" mortar after EOD Inspection (September 10, 2019)**

**Inert munition items encountered in Areas M and N (September 23, 2019)**

# Appendix A – Site Photographs

**Inert munition debris items found in Areas M and N (September 26, 2019)**

**Inert munition items encountered in Area H (September 28, 2019)**

# Appendix A – Site Photographs

**Final extent and condition of Area H (October 23, 2019)**

**Area C Backfilled and Covered with Gravel to Support Truck Traffic (September 2019)**

# Appendix A – Site Photographs

**Area A Backfilled (August 2020)**

**Area B Backfilled with Drainage Channel Visible (August 2020)**

# Appendix A – Site Photographs

**Area D Backfilled (August 2020)**

**Area E Backfilled (August 2020)**

# Appendix A – Site Photographs

**Area F Backfilled (August 2020)**

**Area G Backfilled (August 2020)**

# Appendix A – Site Photographs

**Berm Constructed East and Northeast of Excavation Area H (August 2020)**

# Appendix A – Site Photographs

**Berm Constructed West of Excavation Area H (August 2020)**

# Appendix B

# Waste Disposal Manifests and Landfill Load Tickets

**(Provided as electronic files only on CD and the Portal)**

# Appendix C

# Memorandum for Record – Recognize, Retreat, Report (3Rs) Training for East Texas Regional Landfill

**MEMORANDUM FOR RECORD**

**Subject:** Recognize, Retreat, Report (3Rs) Training for East Texas Regional Landfill.

**Date of Training:** Wednesday, December 9, 2020, 10:00AM CST

**Location of Training:** East Texas Regional Landfill, Henderson Texas

**Attendees:**
U.S. Army Corps of Engineers Ordnance and Explosives Safety Specialist: Timothy Bohannon
East Texas Regional Landfill Personnel: Christina Hernandez, Adan Vazquez, Alfonso Rodriguez, Bonnie Rutledge, Jaime Perez, and Jose Romero

On Wednesday, 09 Dec 2020, Timothy Bohannon, a U.S. Army Corps of Engineers (USACE) Ordnance and Explosives Safety Specialist, traveled to the East Texas Regional Landfill to give the employees there a Recognize, Retreat, Report (3Rs) briefing. This briefing was requested due to soils containing Material Potentially Presenting an Explosive Hazard (MPPEH) being inadvertently disposed of at the landfill from the Longhorn Army Ammunition Plant (LHAAP). Mr. Bohannon arrived at 1000 hrs. and met with Ms. Christina Hernandez, the acting manager. Ms. Hernandez identified a meeting room for which the briefing(s) could be held. Due to the need to have someone always attending to landfill operations, Mr. Bohannon was asked to give two briefings. Mr. Bohannon successfully provided the 3Rs briefings to a total of six personnel which included: Christina Hernandez, Adan Vazquez, Alfonso Rodriguez, Bonnie Rutledge, Jaime Perez, and Jose Romero. These employees work as equipment operators, in landfill operations, and in landfill administration. Topics discussed were the reason for the briefing, the USACE's Military Munitions Response Program, Unexploded Ordnance safety, 3Rs, and how to report any MPPEH discoveries. Construction specific 3Rs handouts were given to the employees in both English and Spanish, and photos of actual LHAAP MPPEH and soils were shown to the employees. In all, the briefings took approximately one hour and business cards were left for future contact if necessary.

Contract No. W9128F-13-D-0012, Task Order No. W9128BV17F0150 • Draft Final • Rev 0 • March 2021

# Appendix D

# Analytical Data Packages for Excavation Confirmation and Backfill Source Samples

**(Provided as electronic files only CD and the Portal)**

# Appendix E

# Backfill Load Tickets

4 Loads of Rock hauled in from Nash Trucking

| | | |
|---|---|---|
| 8/21/2019 | Tickets: | 16165 |
| 8/21/2019 | | 16166 |
| 9/27/2019 | | 17170 |
| 9/27/2019 | | 17173 |

32 Loads of Backfill hauled in from Nash Trucking

| | | | | | |
|---|---|---|---|---|---|
| 9/26/2019 | 1 | 337251 | | | |
| 9/26/2019 | 2 | 337252 | | | |
| 9/27/2019 | 1 | 337376 | 9/27/2019 | 16 | 337391 |
| 9/27/2019 | 2 | 337377 | 9/27/2019 | 17 | 337392 |
| 9/27/2019 | 3 | 337378 | 9/27/2019 | 18 | 337393 |
| 9/27/2019 | 4 | 337379 | 9/27/2019 | 19 | 337394 |
| 9/27/2019 | 5 | 337380 | 9/27/2019 | 20 | 337395 |
| 9/27/2019 | 6 | 337381 | 9/27/2019 | 21 | 337396 |
| 9/27/2019 | 7 | 337382 | 9/27/2019 | 22 | 337397 |
| 9/27/2019 | 8 | 337383 | 9/27/2019 | 23 | 337398 |
| 9/27/2019 | 9 | 337384 | 9/27/2019 | 24 | 337399 |
| 9/27/2019 | 10 | 337385 | 9/27/2019 | 25 | 337400 |
| 9/27/2019 | 11 | 337386 | 9/27/2019 | 26 | 337401 |
| 9/27/2019 | 12 | 337387 | 9/27/2019 | 27 | 337402 |
| 9/27/2019 | 13 | 337388 | 9/27/2019 | 28 | 337403 |
| 9/27/2019 | 14 | 337389 | 9/27/2019 | 29 | 337404 |
| 9/27/2019 | 15 | 337390 | 9/27/2019 | 30 | 337406 |

Ticket 337405 tailgate would not open, did not unload.

01014540

16165

# ELECTRONIC SCALE TICKET

DATE _____

SELLER Nash Trucking & Construction LTD

ADDRESS P.O. Box 219, Woodlawn, TX 75694

Marshall 903-938-5426 Jefferson 903-665-9400

CONSIGNEE Aptim

DESTINATION Kainack

COMMODITY SB2

DRIVER'S NAME Carl

REMARKS _____

2260

07:42 AM 08/21/2019
51100 lb G
20040 lb T (MAN WT)
31060 lb N
15.53 tn N

WEIGHER KR

16166

# ELECTRONIC SCALE TICKET

DATE _____

SELLER Nash Trucking & Construction LTD

ADDRESS P.O. Box 219, Woodlawn, TX 75694

Marshall 903-938-5426 Jefferson 903-665-9400

CONSIGNEE Aptim

DESTINATION Kainack

COMMODITY SB2

DRIVER'S NAME Carl

REMARKS _____

2260

08:54 AM 08/21/2019
51000 lb G
20040 lb T (MAN WT)
30960 lb N
15.48 tn N

WEIGHER KR

01014541

# ELECTRONIC SCALE TICKET

17170

DATE _____

SELLER Nash Trucking & Construction LTD

ADDRESS P.O. Box 219, Woodlawn, TX 75694

Marshall 903-938-5426 Jefferson 903-665-9400

CONSIGNEE Aptim

DESTINATION _____

COMMODITY 532

DRIVER'S NAME Shane

REMARKS _____

1530

02:50 PM 09/27/2019
50180 lb G
20060 lb T (MAN WT)
30120 lb N
15.06 tn N

1531 Rock

WEIGHER KR

# ELECTRONIC SCALE TICKET

17173

DATE _____

SELLER Nash Trucking & Construction LTD

ADDRESS P.O. Box 219, Woodlawn, TX 75694

Marshall 903-938-5426 Jefferson 903-665-9400

CONSIGNEE Aptim

DESTINATION _____

COMMODITY 532

DRIVER'S NAME Joe

REMARKS _____

2200

03:56 PM 09/27/2019
49480 lb G
21000 lb T (MAN WT)
28480 lb N
14.24 tn N

WEIGHER KR

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337376

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609486 -000 OP | Clean fill | 14 |

DRIVER'S NAME J.B. 9

REMARKS Aptim

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337252

DATE 9-26-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 20 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609486 -000 OP | Clean Fill | 40 |

DRIVER'S NAME John

REMARKS David Smith

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337377

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609486 -000 OP | Clean fill | 28 |

DRIVER'S NAME J.B.

REMARKS Aptim

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337251

DATE 9-26-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 20 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609486 -000 OP | Clean Fill | 20 |

DRIVER'S NAME John

REMARKS

01014542

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337380

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11604186 -000 OP | Clean fill | 70 |

DRIVER'S NAME Big T

REMARKS Aptim

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337378

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11604186 -000 OP | Clean fill | 42 |

DRIVER'S NAME J.B. 24

REMARKS Aptim

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337379

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11604186 -000 OP | Clean fill | 56 |

DRIVER'S NAME J.B. 32

REMARKS Aptim

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337381

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11604186 -000 OP | Clean fill | 84 |

DRIVER'S NAME J.B.

REMARKS Aptim

01014543

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337383

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11600 Old Jacksonville Rd Tyler TX 75707 | Clean fill | 112 |

DRIVER'S NAME Davis

REMARKS Aptim

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337382

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11600 Old Jacksonville Rd Tyler TX 75707 | Clean fill | 98 |

DRIVER'S NAME J. B.

REMARKS Aptim 7119

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337384

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11600 Old Jacksonville Rd Tyler TX 75707 | Clean fill | 126 |

DRIVER'S NAME Gill

REMARKS Aptim

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337385

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11600 Old Jacksonville Rd Tyler TX 75707 | Clean fill | 140 |

'S NAME J B 9

Aptim 1080

01014544

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337387

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609&86 -000 or | Clean fill | 168 |

DRIVER'S NAME Big T

REMARKS Aptim 1045

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337386

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609&86 -000 or | Clean fill | 154 |

DRIVER'S NAME J.B. 22

REMARKS Aptim 1052

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337389

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609&86 -000 or | Clean fill | 196 |

DRIVER'S NAME J.B.

REMARKS Aptim 1057

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337388

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609&86 -000 or | Clean fill | 182 |

DRIVER'S NAME J.B. 24

REMARKS Aptim 1100

01014545

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337391

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609860 -000 OP | Clean fill | 224 |

DRIVER'S NAME Davis

REMARKS Aptim 1322

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337390

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609860 -000 OP | Clean fill | 210 |

DRIVER'S NAME J.B.

REMARKS 1122 Aptim

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337393

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609860 -000 OP | Clean fill | 252 |

DRIVER'S NAME Bill

REMARKS Aptim 1326

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337392

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609860 -000 OP | Clean fill | 238 |

DRIVER'S NAME G-11

REMARKS Aptim 1324

01014546

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337395

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160486 -000 OP | Clean Fill | 280 |

DRIVER'S NAME J.B. 22

REMARKS Aptim 1330

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337394

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160486 -000 OP | Clean Fill | 266 |

DRIVER'S NAME J.B.9

REMARKS Aptim 1328

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337396

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160486 -000 OP | Clean Fill | 294 |

DRIVER'S NAME J.B.32

REMARKS Aptim 1332

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337397

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160486 -000 OP | Clean Fill | 308 |

IVER'S NAME J.B.24

IARKS Aptim 1335

01014547

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337399

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 -000 OP | Clean fill | 336 |

DRIVER'S NAME

REMARKS Davis

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337398

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 -000 OP | Clean fill | 322 |

DRIVER'S NAME

REMARKS APTIM

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337401

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 -000 OP | Clean Fill | 364 |

DRIVER'S NAME

REMARKS Johnson 09

APTIM 1451

NASH TRUCKING & CONSTRUCTION, LTD
PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337400

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 -000 OP | Clean fill | 350 |

DRIVER'S NAME

REMARKS Big T

APTIM 1448

01014548

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337403

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11602486 -000 OP | Clean fill | 392 |

DRIVER'S NAME

REMARKS Johnson 33 Aptim 1457

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337402

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11602486 -000 OP | Clean fill | 378 |

DRIVER'S NAME

REMARKS Johnson 27 Aptim 1453

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337405

Unable to unload. Tailgate did not open.

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11602486 -000 OP | Clean fill | 420 |

DRIVER'S NAME

REMARKS RMJ Aptim 1503

Problems with Body / Did not unload

## NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337404

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11602486 -000 OP | Clean fill | 406 |

DRIVER'S NAME

REMARKS Johnson 24 Aptim 1500

01014549

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

337406

DATE 9-27-19

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11600 Blo 000 OP | Clean fill | 434 |

DRIVER'S NAME

REMARKS 5 14 APTIM ISC

01014550

01014551

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343648

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | - |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986-000 DP | Clean fill | | - |

DRIVER'S NAME _____

REMARKS Johnson Bros. 9

01014552

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343645

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609B6-DDDP | Clean Fill | | |

DRIVER'S NAME

REMARKS M & H 004

01014553

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343644

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609 E6 -000 DP | Clean Fill | | |

DRIVER'S NAME

REMARKS Craft 22

01014554

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343646

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609 Bu - DDD OP | Clean Fill | | |

DRIVER'S NAME

REMARKS Anderson 273

01014555

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343647

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609Ble-DDDDP | Clean Fill | | |

DRIVER'S NAME _____

REMARKS Anderson 100

01014556

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343639

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609 Blo- DOO DP | Clean Fill | |

DRIVER'S NAME

REMARKS Gold Rush 13

01014557

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343640

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160486 -000 DP | Clean Fill | | |

DRIVER'S NAME

REMARKS M4

01014558

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343642

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11600 Bluebell DP | Clean Fill | | |

DRIVER'S NAME

REMARKS Johnson Bros 01

01014559

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343633

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aphm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | Meadow DD DP | Clean fill | | |

DRIVER'S NAME

REMARKS Anderson 100

01014560

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343638

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | Meadow-dow DP | Clean fill | | |

DRIVER'S NAME

REMARKS G & E 19

01014561

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343637

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609 Blue - DOD DP | Clean Fill | | |

DRIVER'S NAME

REMARKS Johnson Bros 9

01014562

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343634

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | APHM | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160 AB6-000 DP | Clean fill | |

DRIVER'S NAME

REMARKS M+H 004

01014563

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343635

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609806- DDO DP | Clean Fill | | |

DRIVER'S NAME _____

REMARKS Craft 22

01014564

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343636

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609 Bb-000 DP | Clean Fill | | |

DRIVER'S NAME

REMARKS Anderson 273

01014565

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343632

DATE 8-6 20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 - DDD DP | Clean Fill | | |

DRIVER'S NAME

REMARKS Franks Trucking

01014566

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343631

DATE 8-6 20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 DD DP | Clean fill | | |

DRIVER'S NAME

REMARKS TNO Logistics 100

01014567

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343630

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1110 9Bb- DDD DP | Clean fill | | |

DRIVER'S NAME

REMARKS Johnson Bros 01

01014568

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343629

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 - 000 DP | Clean fill | | |

DRIVER'S NAME _____

REMARKS M4

01014569

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343627

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 - DDO OP | Clean fill | | - |

DRIVER'S NAME _____

REMARKS Gold Rush 13

01014570

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343626

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aplin | 14 | | 1 |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609 Eb 000 OP | Clean Fill | 1 |

DRIVER'S NAME

REMARKS GNE 19

01014571

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343628

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aphm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1100 Gate- 100 DP | Clean fill | | |

DRIVER'S NAME

REMARKS Johnston Bros 9

01014572

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343643

DATE 8-6-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11e0986 DOD DP | Clean Fill | |

DRIVER'S NAME

REMARKS Franks Trucking

01014573

# ELECTRONIC SCALE TICKET

24171

DATE _____

SELLER Nash Trucking & Construction LTD

ADDRESS P.O. Box 219, Woodlawn, TX 75694

Marshall 903-938-5426 Jefferson 903-665-9400

CONSIGNEE Aptim

DESTINATION PO# 1116098b-000 OP

COMMODITY SB2

DRIVER'S NAME Shane

REMARKS _____

WEIGHER KR

1990

10:12 AM 03/06/2020
48760 lb G
20060 lb T (MAN WT)
28700 lb N
14.35 tn N

01014574

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324779

DATE 8/7/20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160 Q38e- DOD OP | clear fill | |

DRIVER'S NAME _____

REMARKS Craft 22

01014575

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324784

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609 Bu-000 DP | clean fill | | |

DRIVER'S NAME _____

REMARKS Anderson # 273

01014576

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324783

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 - 000 DP | clean fill | |

DRIVER'S NAME _____

REMARKS Anderson # 100

01014577

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343649

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609860 DOD OP | Clean fill | | |

DRIVER'S NAME _____

REMARKS Craft 22

_____

01014578

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324755

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 - 000 OP | clean fill | | |

DRIVER'S NAME _____

REMARKS Craft 22

01014579

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324754

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11.6 0486 - 000 OP | clear bill | |

DRIVER'S NAME _____

REMARKS Anderson # 100

01014580

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324752

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 116086-000 DP | clean bill | |

DRIVER'S NAME Johnson Bros #9

REMARKS

01014581

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324751

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986-000 DP | Clear fill | | |

DRIVER'S NAME _____

REMARKS M4

01014582

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324758

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 - DDD DP | Clean fill | |

DRIVER'S NAME Johnson #9

REMARKS

01014583

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324757

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-000 DP | clean fill | |

DRIVER'S NAME _____

REMARKS ML

01014584

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343650

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aphm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986-000 Cp | Clear Fill | | |

DRIVER'S NAME

REMARKS GNE #19

01014585

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324756

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 - 000 DP | clean fill | |

DRIVER'S NAME

REMARKS GNE #19

01014586

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324753

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-000 DP | Clean Fill | |

DRIVER'S NAME _____

REMARKS Anderson # 273

01014587

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324766

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11D0986-000 DP | clean fill | | |

DRIVER'S NAME _____

REMARKS Anderson # 100

01014588

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324765

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986-000 OP | clear fill | | |

DRIVER'S NAME Alderson #273

REMARKS _____

01014589

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324764

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160486 - DDD DP | clear fill | |

DRIVER'S NAME Johnson #9

REMARKS

01014590

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324763

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 - DDD DP | clear bill | |

DRIVER'S NAME _____

REMARKS 4

01014591

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324762

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-DDDDP | Clean fill | |

DRIVER'S NAME

REMARKS GNE #19

01014592

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324761

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-DDO DP | clean fuel | |

DRIVER'S NAME _____

REMARKS Craft 22

01014593

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324759

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 - DDO DP | clean fill | |

DRIVER'S NAME _____

REMARKS Anderson # 293

01014594

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324760

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160 986-000 DP | clean fill | |

DRIVER'S NAME _____

REMARKS Anderson # 100

01014595

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324770

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| m | 1160986 DDO DP | clean fill | |

DRIVER'S NAME Johnson #9

REMARKS

01014596

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324772

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | Meadow 000 DP | clean bill | | |

DRIVER'S NAME _____

REMARKS Anderson # 100

_____

01014597

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324771

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | Meda86-000 DP | clean fill | | |

DRIVER'S NAME _____

REMARKS Anderson #273

01014598

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324767

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609 Bla- 000 DP | clean bill | |

DRIVER'S NAME _____

REMARKS Clapt 22

_____

01014599

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324768

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609866-000 DP | clean bill | |

DRIVER'S NAME

REMARKS GNE #19

01014600

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324769

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| m | 11609866-DDD DP | clean fill | |

DRIVER'S NAME _____

REMARKS m c/

01014601

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324773

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| m | 116 CR 486 DDD Dp | clean fill | | |

DRIVER'S NAME _____

REMARKS Craft 22

_____

01014602

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324774

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-000 DP | clear bill | |

DRIVER'S NAME

REMARKS GNE #19

01014603

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324775

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14. | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 116086-000 OP | clear fill | | |

DRIVER'S NAME _____

REMARKS M4

_____

01014604

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324776

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 - 000 OP | Clean bill | | |

DRIVER'S NAME Johnson #9

REMARKS

01014605

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324777

DATE 3-7-2020

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986-DD Op | clean bill | | |

DRIVER'S NAME

REMARKS Anderson #273

01014606

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324778

DATE 8-7-2020

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-DD DP | clean bill | |

DRIVER'S NAME

REMARKS Anderson # 100

01014607

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324780

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160 486-000 DP | clear fill | |

DRIVER'S NAME _____

REMARKS GNE #19

01014608

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324781

DATE _____

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986-DD DP | clean fill | | |

DRIVER'S NAME _____

REMARKS M14

_____

01014609

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324782

DATE 8-7-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-000 DP | clear fuel | |

DRIVER'S NAME Johnson #9

REMARKS

01014610

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324792

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 - DOD OP | Clean fill | |

DRIVER'S NAME _____

REMARKS Chambers 10K #1

01014611

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324797

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160980 - DOR OP | clean fill | |

DRIVER'S NAME

REMARKS BARR LP TRUCKING

01014612

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324796

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986a-000 OP | clean fill | |

DRIVER'S NAME _____

REMARKS EAST TEXAS SEPTIC

01014613

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324794

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609Ble-000 DP | clean fill | |

DRIVER'S NAME

REMARKS BARE 4 P TRUCKING

01014614

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324790

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 DDD DP | Clean fill | |

DRIVER'S NAME Ean

REMARKS Chamberlain Trk #1

01014615

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324791

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11600 BB6 DDD DP | clean fill | |

DRIVER'S NAME _____

REMARKS EAST TEXAS SEPT. C

01014616

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324789

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-DDDDP | Clean bill | |

DRIVER'S NAME

REMARKS BARR 4P TRUCKING

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

324786

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 141 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 116 0986 - 000 DP | clean bull | |

DRIVER'S NAME

REMARKS GNE #19

01014618

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343656

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11602 Bb - 000 DP | Clean fill | | |

DRIVER'S NAME

REMARKS Chambers Trk #1

01014619

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343655

DATE 8-10-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609 Bo-Dog DP | clean fill | |

DRIVER'S NAME

REMARKS BARR 4 P TRUCKING

01014620

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343661

DATE 8-18-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | APTIM | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11600 Old OAKS | Clean Fill 00f | | |

DRIVER'S NAME _____

REMARKS _____

01014621

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343657

DATE 8-14-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Atm | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11eD986 DDD DP | Clean fill | |

DRIVER'S NAME TJT Co # 73

REMARKS Thomas Stg

01014622

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343658

DATE 8-14-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Apthm | -14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 DOO DP | Clean fill | | |

DRIVER'S NAME

REMARKS EAST TEXAS SEPTIC

01014623

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343659

DATE 8-18-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 DOO DP | Clean fill | | |

DRIVER'S NAME _____

REMARKS _____

01014624

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343673

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11600486-000 OP | Clean fill | | |

DRIVER'S NAME

REMARKS EAST TEXAS SEPTIC

01014625

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343671

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 DD OP | Clean Fill | | |

DRIVER'S NAME Tjt #23

REMARKS

01014626

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343674

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160980 000 DP | Clean fill | | |

DRIVER'S NAME

REMARKS

01014627

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343672

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11ea186-DDO DP | Clean fill | |

DRIVER'S NAME

REMARKS Dan:S 001

01014628

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343675

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 116086-000 DP | Clean Fill | | |

DRIVER'S NAME

REMARKS Davis 004

01014629

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343676

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11600 Blo DDD DP | Clean fill | | |

DRIVER'S NAME

REMARKS Chambers Tank #1

01014630

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343677

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986 DDD DP | Clean fill | |

DRIVER'S NAME

REMARKS BARR 4P Trucking

01014631

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343683

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11609860-DOO DP | Clean Fill | |

DRIVER'S NAME

REMARKS Chambers Cty

01014632

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343681

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 116098 6 000 DP | Clean Fill | | |

DRIVER'S NAME

REMARKS DAVIS #081

01014633

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343668

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aphm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609&e-000 op | Clean fill | | |

DRIVER'S NAME

REMARKS Bare 4 P Trucking

01014634

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343670

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 000 Dp | Clean fill | | |

DRIVER'S NAME

REMARKS Chambers Trk #1

01014635

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343669

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | APtm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11609Be-000 DP | Clean Fill | | |

DRIVER'S NAME Davis 004

REMARKS

01014636

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343667

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | APHM | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | Tyler Pipe - Doo Op | Clean fill | |

DRIVER'S NAME

REMARKS

01014637

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343664

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | Woodlee-Doo Dp | Clean Fill | |

DRIVER'S NAME DAVIS 001

REMARKS

01014638

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343666

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11100986-000 DP | Clean Fill | | |

DRIVER'S NAME JT 73

REMARKS

01014639

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343665

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Apthm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11409 Bo-Doo Dp | Clean fill | | |

DRIVER'S NAME

REMARKS EAST TEXAS SEPTIC

01014640

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343663

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Apton | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | Meadow-DOO DP | Clean fill | |

DRIVER'S NAME

REMARKS Chambers Trk #1

01014641

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343662

DATE 8-18-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 11600 Alameda DOO DP | Clean Fill | | |

DRIVER'S NAME

REMARKS BARR 4 P TRUCKING

01014642

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343660

DATE 8-18-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 - DBO DP | Clean fill | | |

DRIVER'S NAME M. Harris DOT

REMARKS

01014643

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343682

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aphm | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 11602826-000 OP | Clean Fill | |

DRIVER'S NAME

REMARKS Davis #604

01014644

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343678

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-000 DP | Clean Fill | |

DRIVER'S NAME

REMARKS TJT 73

01014645

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343679

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptm | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | Tiedale-DDO DP | Clean fill | | |

DRIVER'S NAME

REMARKS EAST TEXAS SEPTIC

01014646

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343680

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | Meador DD DP | Clean fill | | |

DRIVER'S NAME _____

REMARKS _____

01014647

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343684

DATE 8-11-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986-000 DP | clean Fill | | |

DRIVER'S NAME

REMARKS BARR 4P TRUCKING

01014648

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343687

DATE 8-12-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Apfim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-000 DP | Clean Fill | |

DRIVER'S NAME

REMARKS Chambers #1

01014649

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343688

DATE 8-12-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |

| ORIGIN | DESTINATION | COMMODITY | TOTAL |
|---|---|---|---|
| M | 1160986-080 DP | Clean Fill | |

DRIVER'S NAME

REMARKS

01014650

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343685

DATE 8-12-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| M | 1160986 000 DP | Clean Fill | | |

DRIVER'S NAME

REMARKS Chambers (rh#)

01014651

# NASH TRUCKING & CONSTRUCTION, LTD

PO Box 219
Woodlawn, Texas 75694
(903) 938-5426
Fax (903) 935-6036

343686

DATE 8-12-20

| SHIPPER | CONSIGNEE | YARDS | TONS | MILES |
|---|---|---|---|---|
| NASH | Aptim | 14 | | |
| **ORIGIN** | **DESTINATION** | **COMMODITY** | | **TOTAL** |
| N | 1160986-000 DP | Clean Fill | | |

DRIVER'S NAME

REMARKS

01014652

WASTE CONNECTIONS
Connect with the Future

No. 21803

# NON - HAZARDOUS MANIFEST 38438 11:12

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.32 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-23-19 — Shipment Date

Driver Name (Print): Robert Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-23-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-808-2000

01014653

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038438 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 11:12 | 11:12 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78860 LB
Stored Tare Wt. 32220 LB
Net Weight 46640 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.32 | TON | CONTAMINATED SOIL-TN | 13.000 | 303.16 | 21.92 | 325.08 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 21.92

| NET AMOUNT |
|---|
| 325.08 |
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21803

01014654

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21804

38441 11:24

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1566282705 | 22 Tons | 24.51 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409
Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-23-19
Driver Signature — Shipment Date

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-23-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services - 817-838-2000

01014655

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038441 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 11:24 | 11:24 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84240 LB
Stored Tare Wt. 35220 LB
Net Weight 49020 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.51 | TON | CONTAMINATED SOIL-TN | 13.000 | 318.63 | 23.04 | 341.67 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 23.04

| NET AMOUNT |
|---|
| 341.67 |
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21804

01014656

WASTE CONNECTIONS
Connect with the Future

No. 21805

# NON - HAZARDOUS MANIFEST 38442 11:30

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.49 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-23-19 Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-23-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North East Level

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-23-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014657

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GMID | |
|---|---|---|---|
| 01 | 00038442 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 11:30 | 11:30 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77460 LB
Stored Tare Wt. 34480 LB
Net Weight 42980 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.49 | TON | CONTAMINATED SOIL-TN | 13.000 | 279.37 | 20.20 | 299.57 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 20.20

| NET AMOUNT |
|---|
| 299.57 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21805

01014658

WASTE CONNECTIONS
Connect with the Future

No. 21806

# NON - HAZARDOUS MANIFEST 38444 11:38

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 27 Yd Belly | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon — Shipment Date: 8/23/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon — Shipment Date: 8/23/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014659

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038444 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 11:38 | 11:38 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 86140 LB
Stored Tare Wt. 30920 LB
Net Weight 55220 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 27.61 | TON | CONTAMINATED SOIL-TN | 13.000 | 358.93 | 25.95 | 384.88 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 25.95

NET AMOUNT
384.88
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21806

01014660

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21807

38467 14:56

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.97 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date: 8-23-19

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

R. Wynn — Driver Signature — Shipment Date: 8-23-19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

Receipt Date: 8-23-19

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-939-3000

01014661

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038467 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 14:56 | 14:56 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 74160 LB
Stored Tare Wt. 32220 LB
Net Weight 41940 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.97 | TON | CONTAMINATED SOIL-TN | 13.000 | 272.61 | 19.71 | 292.32 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 19.71

| NET AMOUNT |
|---|
| 292.32 |
| TENDERED |
| CHANGE |
| CHECK NO. |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21807

01014662

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21809
38483
9:54

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-23-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris 8-23-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
8/24/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014663

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | WEIGHMASTER |
|---|---|---|---|---|
| 01 | 00038483 | | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/24/19 | 08/24/19 | 08:54 | 08:54 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77640 LB
Stored Tare Wt. 34480 LB
Net Weight 43160 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.58 | TON | CONTAMINATED SOIL-TN | 13.000 | 280.54 | 20.29 | 300.83 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 20.29

| NET AMOUNT |
|---|
| 300.83 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21809

(W6T) TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767

SIGNATURE

01014664

WASTE CONNECTIONS
Connect with the Future

No. 21810

# NON - HAZARDOUS MANIFEST 38468 15:09

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.07 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Allen Rush 8-23-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-23-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014665

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GMID | |
|---|---|---|---|
| 01 | 00038468 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 15:09 | 15:09 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77360 LB
Stored Tare Wt. 35220 LB
Net Weight 42140 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.07 | TON | CONTAMINATED SOIL-TN | 13.000 | 273.91 | 19.81 | 293.72 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 19.81

NET AMOUNT
293.72
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21810

01014666

WASTE CONNECTIONS
Connect with the Future

No. 21811

# NON - HAZARDOUS MANIFEST 38470 15:34

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.85 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon 8/23/19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon 8/23/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services - 817-838-2006

01014667

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038470 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 15:34 | 15:34 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84620 LB
Stored Tare Wt. 30920 LB
Net Weight 53700 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.85 | TON | CONTAMINATED SOIL-TN | 13.000 | 349.05 | 25.24 | 374.29 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 25.24

NET AMOUNT
374.29
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21811

01014668

WASTE CONNECTIONS
Connect with the Future

No. 21812

# NON - HAZARDOUS MANIFEST 38573 9:07

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30980
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 483-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22 Tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

R. Lopez — Driver Signature
8-26-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

R. Lopez — Driver Signature
8-26-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffadie — Name of Authorized Agent (Print)
Signature
8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817.939.2000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038513 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLD OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:07 | 08:07 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76860 LB
Stored Tare Wt. 32220 LB
Net Weight 44640 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.32 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| INTERFACE |
| CHARGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21812

01014670

WASTE CONNECTIONS
Connect with the Future

No. 21813

# NON - HAZARDOUS MANIFEST 38575 8:19

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.91 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: [signature] — Shipment Date: 8/26/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: [signature] — Shipment Date: 8/26/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
[signature] — Signature
8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014671

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00838515 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:19 | 08:19 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84740 LB
Stored Tare Wt. 30920 LB
Net Weight 53820 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.91 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21813

01014672

WASTE CONNECTIONS
Connect with the Future

No. 21814

# NON - HAZARDOUS MANIFEST

38514 8:14

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.36 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-26-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-26-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038514 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:16 | 08:16 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79940 LB
Stored Tare Wt. 35220 LB
Net Weight 44720 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.36 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21814

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038513 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLD OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:07 | 08:07 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76860 LB
Stored Tare Wt. 32220 LB
Net Weight 44640 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.32 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| INTERNAL |
| CHARGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21812

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00838515 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:19 | 08:19 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84740 LB
Stored Tare Wt. 30920 LB
Net Weight 53820 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.91 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21813

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038514 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:16 | 08:16 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79940 LB
Stored Tare Wt. 35220 LB
Net Weight 44720 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.36 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21814

01014677

WASTE CONNECTIONS
Connect with the Future

No. 21815

# NON - HAZARDOUS MANIFEST

38518 8:30

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30980
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.11 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-26-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-26-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Joanne Putkey — Name of Authorized Agent (Print)
Signature
8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-2000

01014678

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038518 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:30 | 08:30 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78700 LB
Stored Tare Wt. 34480 LB
Net Weight 44220 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.11 | TON | CONTAMINATED SOIL-TN | --- | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21815

01014679

WASTE CONNECTIONS
Connect with the Future

No. 21816

# NON - HAZARDOUS MANIFEST 3544 11:20

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3809
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.79 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

R. Wynn — Driver Signature
8-26-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

R. Wynn — Driver Signature
8-26-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services 817.838.2006

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038544 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 11:10 | 11:10 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75800 LB
Stored Tare Wt. 32220 LB
Net Weight 43580 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.79 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
AMOUNT
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21816

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038513 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:07 | 08:07 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76860 LB
Stored Tare Wt. 32220 LB
Net Weight 44640 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.32 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| INTERNAL |
| CHARGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21812

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00838515 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:19 | 08:19 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84740 LB
Stored Tare Wt. 30920 LB
Net Weight 53820 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.91 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21813

NET AMOUNT
TENDERED
CHANGE
CHECK NO

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038514 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:16 | 08:16 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79940 LB
Stored Tare Wt. 35220 LB
Net Weight 44720 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.36 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21814

01014684

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038518 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 08:30 | 08:30 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78700 LB
Stored Tare Wt. 34480 LB
Net Weight 44220 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.11 | TON | CONTAMINATED SOIL-TN | --- | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21815

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038544 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 11:10 | 11:10 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75800 LB
Stored Tare Wt. 32220 LB
Net Weight 43580 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.79 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
AMOUNT
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21816

01014686

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21817

38546 11:20

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.53 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush — Driver Signature — 8-26-19 — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 78
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush — Driver Signature — 8-26-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014687

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038546 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | SEALS |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 11:20 | 11:20 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 82280 LB
Stored Tare Wt. 35220 LB
Net Weight 47060 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.53 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| REF # / A/C |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21817

Allen Russell

01014688

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21818

38549 11:42

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA I.D.#: TX6213820529 30990
Address: 455 Union Blvd, Suite 129
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134 Karnack, TX 75661
Rose Zeiler or Kimberly Nemmers
Address:
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.02 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: G Edgmon — Shipment Date: 8/26/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: G Edgmon — Shipment Date: 8/26/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014689

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038549 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HULL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 11:42 | 11:42 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 82960 LB
Stored Tare Wt. 30920 LB
Net Weight 52040 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.02 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDER |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21818

01014690

WASTE CONNECTIONS
Connect with the Future

No. 21819

# NON - HAZARDOUS MANIFEST 38550 11:52

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.83 ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-26-19 Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-26-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-26-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

804034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038550 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 11:52 | 11:52 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282785 | NA |

Scale 1 Gross Wt. 80140 LB
Stored Tare Wt. 34480 LB
Net Weight 45660 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.83 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21819

01014692

WASTE CONNECTIONS
Connect with the Future

No. 21820

# NON - HAZARDOUS MANIFEST 38568 14:16

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.24 ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-26-19 Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-26-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-26-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038568 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 14:16 | 14:16 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76700 LB
Stored Tare Wt. 32220 LB
Net Weight 44480 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.24 | TON | CONTAMINATED SOIL-TN | | | | |

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21820

01014694

WASTE CONNECTIONS
Connect with the Future

No. 21822

# NON - HAZARDOUS MANIFEST 38260 10:05

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 20 Tons | 26.58 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

X — Driver Signature
8-21-19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 561
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-21-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014695

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038260 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 10:05 | 10:05 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84080 LB
Stored Tare Wt. 30920 LB
Net Weight 53160 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.58 | TON | CONTAMINATED SOIL-TN | 13.000 | 345.54 | 24.99 | 370.53 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 24.99

| NET AMOUNT |
|---|
| 370.53 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21822

01014696

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21823
38284
12:31

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | ~20 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-20-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: #45
Truck Type:

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris 8-20-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
8/21/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014697

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038284 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 12:31 | 12:31 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76820 LB
Stored Tare Wt. 34480 LB
Net Weight 42340 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.17 | TON | CONTAMINATED SOIL-TN | 13.000 | 275.21 | 19.90 | 295.11 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 19.90

| NET AMOUNT |
|---|
| 295.11 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21823

SIGNATURE

01014698

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21824
38281
12:18

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | ~20 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Jonathan Allen Rush — Driver Signature
Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Cristina Hernandez — Signature
8/21/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014699

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GHID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038281 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 12:18 | 12:18 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 74820 LB
Stored Tare Wt. 35220 LB
Net Weight 39600 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.80 | TON | CONTAMINATED SOIL-TN | 13.000 | 257.40 | 18.61 | 276.01 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 18.61

| NET AMOUNT |
|---|
| 276.01 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21824

SIGNATURE

01014700

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21825

38299 14:24

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 28.18 ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler

Generator Authorized Agent Name (Print) — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Guy Edgmon — 2/21/19

Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — 8-21-19

Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014701

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038299 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 14:24 | 14:24 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 87280 LB
Stored Tare Wt. 30920 LB
Net Weight 56360 LB

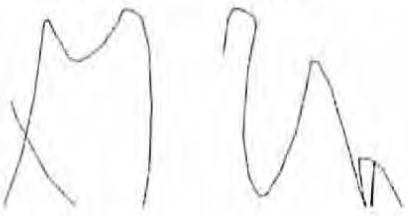
| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 28.18 | TON | CONTAMINATED SOIL-TN | 13.000 | 366.34 | 26.49 | 392.83 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 26.49

| NET AMOUNT |
|---|
| 392.83 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21825



01014702

WASTE CONNECTIONS
Connect with the Future

No. 21826

# NON - HAZARDOUS MANIFEST 38579 15:24

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30980
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.72 ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Bush 8-26-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Bush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Bush 8-26-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-26-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3069

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038579 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 15:29 | 15:29 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80660 LB
Stored Tare Wt. 35220 LB
Net Weight 45440 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.72 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21826

01014704

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21828

38304 15:41

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.94 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-21-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type:

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-21-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-21-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014705

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | |
|---|---|---|---|---|
| 01 | 00038306 | | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 15:41 | 15:41 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78360 LB
Stored Tare Wt. 34480 LB
Net Weight 43880 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.94 | TON | CONTAMINATED SOIL-TN | 13.000 | 285.22 | 20.62 | 305.84 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 20.62

NET AMOUNT
305.84
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21828

01014706

WASTE CONNECTIONS
Connect with the Future

No. 21829

# NON - HAZARDOUS MANIFEST

38307 15:54

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.94 Tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-21-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-21-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pittsley — Name of Authorized Agent (Print)
Signature
8-21-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014707

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038307 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 15:54 | 15:54 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77160 LB
Stored Tare Wt. 35220 LB
Net Weight 41940 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.97 | TON | CONTAMINATED SOIL-TN | 13.000 | 272.61 | 19.71 | 292.32 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 19.71

| NET AMOUNT |
|---|
| 292.32 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21829

SIGNATURE

01014708

WASTE CONNECTIONS
Connect with the Future

No. 21832

# NON - HAZARDOUS MANIFEST 38327 8:12

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.91 Tons | | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-22-19 Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-22-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-22-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014709

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038327 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 08:12 | 08:12 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76040 LB
Stored Tare Wt. 32220 LB
Net Weight 43820 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.91 | TON | CONTAMINATED SOIL-TN | 13.000 | 284.83 | 20.60 | 305.43 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 20.60

NET AMOUNT
305.43
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21832

01014710

WASTE CONNECTIONS
Connect with the Future

No. 21833

# NON - HAZARDOUS MANIFEST 38329 8:24

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 17.88 Tons | | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date: 8/22/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date: 8/22/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Name of Authorized Agent (Print)
Signature
Receipt Date: 8-22-19

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014711

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038329 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 08:24 | 08:24 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 66680 LB
Stored Tare Wt. 30920 LB
Net Weight 35760 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 17.88 | TON | CONTAMINATED SOIL-TN | 13.000 | 232.44 | 16.81 | 249.25 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 16.81

| NET AMOUNT |
|---|
| 249.25 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21833

01014712

WASTE CONNECTIONS
Connect with the Future

No. 21834

# NON - HAZARDOUS MANIFEST 38328 8:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22.34 Tons | | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler — Delivery Date

Generator Authorized Agent Name (Print) — Generator Signature

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-22-19

Driver Signature — Shipment Date

Driver Name (Print): Allen Bush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-22-19

Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pettigrew — [signature] — 8-22-19

Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014713

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038328 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 08:22 | 08:22 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79900 LB
Stored Tare Wt. 35220 LB
Net Weight 44680 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.34 | TON | CONTAMINATED SOIL-TN | 13.000 | 290.42 | 21.00 | 311.42 |

TCEQ FEE 21.00

NET AMOUNT 311.42
TENDERED
CHANGE
CHECK NO

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21834

01014714

WASTE CONNECTIONS
Connect with the Future

No. 21835

# NON - HAZARDOUS MANIFEST 38332 8:44

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.78 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-22-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type:

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris 8-22-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-22-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014715

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038332 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 08:44 | 08:44 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76040 LB
Stored Tare Wt. 34480 LB
Net Weight 41560 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.78 | TON | CONTAMINATED SOIL-TN | 13.000 | 270.14 | 19.53 | 289.67 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 19.53

NET AMOUNT 289.67
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21835

01014716

WASTE CONNECTIONS
Connect with the Future

No. 21836

# NON - HAZARDOUS MANIFEST 38349 11:14

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.90 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-22-19 Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-22-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-22-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014717

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038349 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 11:14 | 11:14 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80020 LB
Stored Tare Wt. 32220 LB
Net Weight 47800 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.90 | TON | CONTAMINATED SOIL-TN | 13.000 | 310.70 | 22.47 | 333.17 |

TCEQ FEE 22.47

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21836

| NET AMOUNT |
|---|
| 333.17 |
| TENDERED |
| CHANGE |
| CHECK NO. |

01014718

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21837

38353 11:34

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.54 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-22-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-22-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Putnam — Name of Authorized Agent (Print)

Signature

8-22-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014719

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038353 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 11:34 | 11:34 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78300 LB
Stored Tare Wt. 35220 LB
Net Weight 43080 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.54 | TON | CONTAMINATED SOIL-TN | 13.000 | 280.02 | 20.25 | 300.27 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 20.25

| NET AMOUNT |
|---|
| 300.27 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21837

01014720

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21838

38352 11:31

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 27.10 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8/22/19 Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8/22/19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-22-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-926-2000

01014721

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038352 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 11:31 | 11:31 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 85120 LB
Stored Tare Wt. 30920 LB
Net Weight 54200 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 27.10 | TON | CONTAMINATED SOIL-TN | 13.000 | 352.30 | 25.47 | 377.77 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 25.47

| NET AMOUNT |
|---|
| 377.77 |
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21838

01014722

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21839 38356 11:52

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.84 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-22-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris 8-22-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-22-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services - 817-999-2999

01014723

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038356 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 11:52 | 11:52 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76160 LB
Stored Tare Wt. 34480 LB
Net Weight 41680 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.84 | TON | CONTAMINATED SOIL-TN | 13.000 | 270.92 | 19.59 | 290.51 |

TCEQ FEE 19.59

NET AMOUNT 290.51
TENDERED
CHANGE
CHECK NO.

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21839

01014724

WASTE CONNECTIONS
Connect with the Future

No. 21840

# NON - HAZARDOUS MANIFEST

38376 14:35

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.64 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-22-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-22-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Ronnie Rutledge — Name of Authorized Agent (Print)
Signature
9-22-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014725

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038376 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 14:35 | 14:35 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75500 LB
Stored Tare Wt. 32220 LB
Net Weight 43280 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.64 | TON | CONTAMINATED SOIL-TN | 13.000 | 281.32 | 20.34 | 301.66 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 20.34

| NET AMOUNT |
|---|
| 301.66 |
| TENDERED |
| CHANGE |
| CHECK NO. |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21840

01014726

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21841

38385 15:26

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.26 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler
Generator Authorized Agent Name (Print)

Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

8-22-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

8-22-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge
Name of Authorized Agent (Print)

Signature

8-22-19
Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014727

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038385 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 15:26 | 15:26 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81000 LB
Stored Tare Wt. 34480 LB
Net Weight 46520 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.26 | TON | CONTAMINATED SOIL-TN | 13.000 | 302.38 | 21.86 | 324.24 |

TCEQ FEE 21.86

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT 324.24
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21841

01014728

WASTE CONNECTIONS
Connect with the Future

No. 21842

# NON - HAZARDOUS MANIFEST 38383 15:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.11 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Jackson Allen Rush 8-22-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-22-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-22-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014729

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038383 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 15:22 | 15:22 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81440 LB
Stored Tare Wt. 35220 LB
Net Weight 46220 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.11 | TON | CONTAMINATED SOIL-TN | 13.000 | 300.43 | 21.72 | 322.15 |

TCEQ FEE 21.72

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT 322.15
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21842

Allen Rand

01014730

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21843 38388 15:42

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 13.94 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler Rose M. Zeiler — Rose M. Zeiler
Generator Authorized Agent Name (Print) — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date: 8/22/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date: 8/22/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruttledge — 8-22-19
Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services 817.939.2000

01014731

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038388 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/22/19 | 08/22/19 | 15:42 | 15:42 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78800 LB
Stored Tare Wt. 30920 LB
Net Weight 47880 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.94 | TON | CONTAMINATED SOIL-TN | 13.000 | 311.22 | 22.50 | 333.72 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 22.50

NET AMOUNT 333.72
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21843

01014732

WASTE CONNECTIONS
Connect with the Future

No. 21844

# NON - HAZARDOUS MANIFEST

38415 8:09

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.93 ton | Bend dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-23-19 Shipment Date

Driver Name (Print): Randy Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-23-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-23-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014733

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038415 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 08:09 | 08:09 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 74080 LB
Stored Tare Wt. 32220 LB
Net Weight 41860 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.93 | TON | CONTAMINATED SOIL-TN | 13.000 | 272.09 | 19.67 | 291.76 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 19.67

NET AMOUNT
291.76
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21844

01014734

WASTE CONNECTIONS
Connect with the future

# NON - HAZARDOUS MANIFEST

No. 21845

38418 8:29

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.16 ton | End Dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR - Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals

Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Ty Edgmon — Driver Signature

8/23/19 — Shipment Date

Driver Name (Print): Ty Edgmon

Truck Number: 56

Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Ty Edgmon — Driver Signature

8/23/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)

Signature

9-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services

01014735

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038418 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 08:29 | 08:29 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79240 LB
Stored Tare Wt. 30920 LB
Net Weight 48320 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.16 | TON | CONTAMINATED SOIL-TN | 13.000 | 314.08 | 22.71 | 336.79 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 22.71

NET AMOUNT
336.79
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21845

01014736

WASTE CONNECTIONS
Connect with our Future

No. 21846

# NON - HAZARDOUS MANIFEST 38417 8:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.34 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Jonathon Allen Rush 8-23-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-23-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pettigrew — Name of Authorized Agent (Print)
Signature
8-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014737

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038417 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 08:22 | 08:22 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79900 LB
Stored Tare Wt. 35220 LB
Net Weight 44680 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.34 | TON | CONTAMINATED SOIL-TN | 13.000 | 290.42 | 21.00 | 311.42 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 21.00

NET AMOUNT
311.42
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21846

01014738

WASTE CONNECTIONS
Connect with the Future

No. 21848

# NON - HAZARDOUS MANIFEST 38247 8:57

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | ~20 Tons | 24.68 ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler

Generator Authorized Agent Name (Print) | Generator Signature | Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Jonathon Allen Rush 8-21-19

Driver Signature | Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature | Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — 8-21-19

Name of Authorized Agent (Print) | Signature | Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014739

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038247 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 08:51 | 08:51 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84580 LB
Stored Tare Wt. 35220 LB
Net Weight 49360 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.68 | TON | CONTAMINATED SOIL-TN | 13.000 | 320.84 | 23.20 | 344.04 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 23.20

| NET AMOUNT |
|---|
| 344.04 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21848

01014740

WASTE CONNECTIONS
Connect with the Future

No. 21849

# NON - HAZARDOUS MANIFEST 38419 8:31

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.31 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: [signature] 8-23-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type:

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: [signature] 8-23-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
[signature] — Signature
8-23-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014741

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00038419 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/23/19 | 08/23/19 | 08:31 | 08:31 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79100 LB
Stored Tare Wt. 34480 LB
Net Weight 44620 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.31 | TON | CONTAMINATED SOIL-TN | 13.000 | 290.03 | 20.97 | 311.00 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 20.97

| NET AMOUNT |
|---|
| 311.00 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21849

01014742

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21850

38248 8:56

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15800 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | ~20 Tons | 23.02 tons | belly dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-21-19 Shipment Date

Driver Name (Print): Rodney Galyen
Truck Number: 57
Truck Type: Belly Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-21-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
Address: 5155 FM 2867
State Permit #: MSW - 1249B
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ratliff — Name of Authorized Agent (Print)

Signature — 8-21-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014743

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038248 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/21/19 | 08/21/19 | 08:56 | 08:56 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 77720 LB
Scale 1 Tare Wt. 31680 LB
Net Weight 46040 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.02 | TON | CONTAMINATED SOIL-TN | 13.000 | 299.26 | 21.64 | 320.90 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 21.64

| NET AMOUNT |
|---|
| 320.90 |
| TENDERED |
| CHANGE |
| CHECK NO. |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21850

WASTE TECHNICIAN CERTIFICATION: ... SIGNATURE

01014744

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21852 38245 8:39

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | ~20 Tons | 24.67 tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-21-19 Shipment Date

Driver Name (Print): Michael Morris
Truck Number: #45
Truck Type:

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-21-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffcorn — Name of Authorized Agent (Print)
Signature
8-21-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014745

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038245 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/21/19 | 08/21/19 | 08:39 | 08:39 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 83820 LB
Stored Tare Wt. 34480 LB
Net Weight 49340 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.67 | TON | CONTAMINATED SOIL-TN | 13.000 | 320.71 | 23.19 | 343.90 |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE 23.19

| NET AMOUNT |
|---|
| 343.90 |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21852

WW6T1 TO REORDER CONTACT CAROLINA SOFTWARE (910) 788-6762 SIGNATURE

01014746

WASTE CONNECTIONS
Connect with the Future

No. 21853

# NON - HAZARDOUS MANIFEST 38578 15:27

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.11 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-26-19 Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-26-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Cutbirth — Name of Authorized Agent (Print)
Signature
8-26-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | | |
|---|---|---|---|---|
| 01 | 00038578 | | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 15:27 | 15:27 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80700 LB
Stored Tare Wt. 34480 LB
Net Weight 46220 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TAX |
|---|---|---|---|---|---|---|
| 23.11 | TON | CONTAMINATED SOIL-TN | | | | |

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21853

01014748

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21854

38582 15:53

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30980
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Karnack, TX 75661
Address:
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.99ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon
Shipment Date: 8/26/19

Driver Name (Print): Guy Edgmon
Truck Number: #56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon
Shipment Date: 8/26/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8 Aug-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014749

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038582 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
|---|---|---|---|---|---|
| 08/26/19 | 08/26/19 | 15:53 | 15:53 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84900 LB
Stored Tare Wt. 30920 LB
Net Weight 53980 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.99 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK # |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21854

01014750

WASTE CONNECTIONS
Connect with the Future

No. 21856

# NON - HAZARDOUS MANIFEST 38601 8:04

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21 Tons | 19.24 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-27-19 Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-27-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-27-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3000

01014751

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038601 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/27/19 | 08/27/19 | 08:04 | 08:04 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 70740 LB
Stored Tare Wt. 32220 LB
Net Weight 38520 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.26 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21856

01014752

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21857

38603 8:10

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 18.57 tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-27-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-27-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038603 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/27/19 | 08/27/19 | 08:10 | 08:10 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 71500 LB
Stored Tare Wt. 34480 LB
Net Weight 37020 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 18.51 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21857

01014754

WASTE CONNECTIONS
Connect with the Future

No. 21858

# NON - HAZARDOUS MANIFEST 38606 8:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 2354 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon — Shipment Date: 8/22/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon — Shipment Date: 8/27/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Ronnie Rutledge — Name of Authorized Agent (Print)
Signature
8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| DATE | TICKET | | |
|---|---|---|---|
| 01 | 00038606 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 08:22 | 08:22 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78000 LB
Stored Tare Wt. 30920 LB
Net Weight 47080 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.54 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21858

01014756

WASTE CONNECTIONS
Connect with the Future

No. 21861

# NON - HAZARDOUS MANIFEST

8/27/19 8:15

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.43 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-27-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-27-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014757

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| DATE | RATE | UNIT | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038604 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 08:15 | 08:15 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76080 LB
Stored Tare Wt. 35220 LB
Net Weight 40860 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.43 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21861

01014758

WASTE CONNECTIONS
Connect with the Future

No. 21862

# NON - HAZARDOUS MANIFEST

30621 11:04

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.74 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

R. Wynn — Driver Signature
8-27-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

R. Wynn — Driver Signature
8-27-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pittsley — Name of Authorized Agent (Print)

Signature

8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014759

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038621 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 11:04 | 11:04 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75700 LB
Stored Tare Wt. 32220 LB
Net Weight 43480 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.74 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21862

01014760

WASTE CONNECTIONS
Connect with the Future

No. 21863

# NON - HAZARDOUS MANIFEST 38023 11:17

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 128
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-27-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris 8-27-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ratliff — Name of Authorized Agent (Print)
Signature
8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014761

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038623 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 11:17 | 11:17 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 73000 LB
Stored Tare Wt. 34480 LB
Net Weight 38520 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.26 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21863

01014762

WASTE CONNECTIONS
Connect with the Future

No. 21864

# NON - HAZARDOUS MANIFEST 38624 11:19

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.06 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-27-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-27-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rentfro — Name of Authorized Agent (Print)
Signature
8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014763

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038624 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 11:19 | 11:19 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77340 LB
Stored Tare Wt. 35220 LB
Net Weight 42120 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.06 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21864

01014764

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21866

38627 11:45

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.64 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon — Shipment Date: 8/27/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon — Shipment Date: 8/27/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038627 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | PULL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 11:45 | 11:45 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80260 LB
Stored Tare Wt. 30920 LB
Net Weight 49340 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.67 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21866

01014766

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21867

38649 14:38

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.41 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rosem. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals

Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-27-19 Shipment Date

Driver Name (Print): Rodney Wynn

Truck Number: 57

Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-27-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)

Signature

8-27-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| 01 | 00038649 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | (BILL) LIFT |
| 08/27/19 | 08/27/19 | 14:38 | 14:38 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75040 LB
Stored Tare Wt. 32220 LB
Net Weight 42820 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.41 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21867

01014768

WASTE CONNECTIONS
Connect with the Future

No. 21868

# NON - HAZARDOUS MANIFEST 38647 14:33

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.98 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-27-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris 8-27-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3090

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | | |
|---|---|---|---|---|
| 01 | 00038647 | | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 14:33 | 14:33 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76040 LB
Stored Tare Wt. 34480 LB
Net Weight 41560 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.78 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

CHANGE

CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21868

01014770

WASTE CONNECTIONS
Connect with the Future

No. 21869

# NON - HAZARDOUS MANIFEST

38657 15:00

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.39 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rosem Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-27-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-27-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-27-19
Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services - 817-939-2000

01014771

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038651 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/27/19 | 08/27/19 | 15:00 | 15:00 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84000 LB
Stored Tare Wt. 35220 LB
Net Weight 48780 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.39 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21869

Allen Ruck

01014772

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21870

386662 15:57

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 29.65 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon — Shipment Date: 8/27/19

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon — Shipment Date: 8/27/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-27-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services 817-838-2000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038662 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/27/19 | 08/27/19 | 15:57 | 15:57 | DODSON56 | |
| REFERENCE | | ORIGIN | | | |
| 1565282705 | | NA | | | |

Scale 1 Gross Wt. 90220 LB
Stored Tare Wt. 30920 LB
Net Weight 59300 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 29.65 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21870

01014774

WASTE CONNECTIONS
*Connect with the Future*

No. 21871

# NON - HAZARDOUS MANIFEST

38683 8:25

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.09 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above

R. Wynn — Driver Signature
8.28.19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57 Dodson
Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

R. Wynn — Driver Signature
8.28.19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
✓ — Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038683 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 08:25 | 08:25 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80400 LB
Stored Tare Wt. 32220 LB
Net Weight 48180 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.09 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21871

01014776

WASTE CONNECTIONS
Connect with the Future

No. 21872

# NON - HAZARDOUS MANIFEST 38688 8:50

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.75 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Daryl A Ratcliff — Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 - LATX OP
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Daryl A Ratcliff — Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014777

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038688 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 08:41 | 08:56 | 1604 LATX | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 89420 LB
Scale 1 Tare Wt. 35920 LB
Net Weight 53500 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.75 | TON | CONTAMINATED SOIL-TN | 13.000 | 347.75 | 25.15 | 372.90 |

TCEQ FEE 25.15

NET AMOUNT
372.90
TENDERED
CHANGE

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21872

01014778

WASTE CONNECTIONS
Connect with the Future

No. 21874

# NON - HAZARDOUS MANIFEST 38687 8:38

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.08 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: ~~8215 Up River Rd, Corpus Christi, TX 78409~~

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-28-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris 8-28-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014779

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | TARE | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038687 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 08:38 | 08:38 | DOOSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76640 LB
Stored Tare Wt. 34480 LB
Net Weight 42160 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.08 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

TENDERED

CHANGE

CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21874

01014780

WASTE CONNECTIONS
Connect with the Future

No. 21875

# NON - HAZARDOUS MANIFEST 38698 9:52

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.28 for | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: ~~8215 Up River Rd, Corpus Christi, TX 78409~~

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Allen Rush 8-28-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38 DTL
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-28-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-939-2000

01014781

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038698 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 09:52 | 09:52 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

084034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

Scale 1 Gross Wt. 83780 LB
Stored Tare Wt. 35220 LB
Net Weight 48560 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.28 | TON | CONTAMINATED SOIL-TN | -- | | -- | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21875

CHANGE

CHECK NO

01014782

WASTE CONNECTIONS
Connect with the Future

No. 21876

# NON - HAZARDOUS MANIFEST 38702 10:14

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 27.15 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8/28/19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8/28/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75653

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038702 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 10:14 | 10:14 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 85220 LB
Stored Tare Wt. 30920 LB
Net Weight 54300 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 27.15 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21876

01014784

WASTE CONNECTIONS
Connect with the Future

No. 21877

# NON - HAZARDOUS MANIFEST

38720 11:48

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24-40 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
8/20/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

E. Wynn — Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): Edward Wynn
Truck Number: 57 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

E. Wynn — Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038720 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 11:48 | 11:48 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81020 LB
Stored Tare Wt. 32220 LB
Net Weight 48800 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.40 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDER
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21877

01014786

WASTE CONNECTIONS
Connect with the Future

No. 21878

# NON - HAZARDOUS MANIFEST 38722 12:02

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Kamack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 19.26 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Daryl Ratcliff — Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 LATX OP.
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Daryl Ratcliff — Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3000

01014787

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| DISC | TICKET | | |
|---|---|---|---|
| 01 | 00038722 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 12:02 | 12:02 | 1604 LATX | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 74440 LB
Stored Tare Wt. 35920 LB
Net Weight 38520 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.26 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21878

01014788

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21879
38725
12:26

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (478) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Generator Signature — 8/28/19 Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

8-28-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

8-28-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
8/28/19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038725 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 12:26 | 12:26 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 85440 LB
Stored Tare Wt. 34480 LB
Net Weight 50960 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.48 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

CHANGE

CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21879

01014790

WASTE CONNECTIONS
Connect with the Future

No. 21880

# NON - HAZARDOUS MANIFEST 38748 14:40

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 14.95 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8/28/19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8/28/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| 01 | 00038748 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/28/19 | 08/28/19 | 14:40 | 14:40 | DODSON56 | |
| REFERENCE | | ORIGIN | | | |
| 1565282705 | | NA | | | |

Scale 1 Gross Wt. 80820 LB
Stored Tare Wt. 30920 LB
Net Weight 49900 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.95 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDER |
| CHANGE |
| CHECK NO. |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21880

01014792

WASTE CONNECTIONS
Connect with the Future

No. 21881

# NON - HAZARDOUS MANIFEST 38742 14:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.71 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): Dodson Trucking Inc Johnny
Truck Number: # 53
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014793

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038742 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | FEE OVR |
| 08/28/19 | 08/28/19 | 14:22 | 14:22 | DODSON53 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81020 LB
Stored Tare Wt. 29600 LB
Net Weight 51420 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.71 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

CHARGE

CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21881

01014794

WASTE CONNECTIONS
Connect with the Future

No. 21882

# NON - HAZARDOUS MANIFEST 38743 14:48

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.75 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Frank Spaulding — Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): Frank Spaulding
Truck Number: 55
Truck Type: Freightliner

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Frank Spaulding — Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ratliff — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original  Canary - Disposer Retain  Pink - Transporter Retain  Goldenrod - Generator Retain

01014795

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| DATE | TICKET | | |
|---|---|---|---|
| 01 | 00038743 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 14:29 | 14:48 | DODSON55 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 78220 LB
Scale 1 Tare Wt. 28720 LB
Net Weight 49500 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | LOAD |
|---|---|---|---|---|---|---|
| 24.75 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK #

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21882

01014796

WASTE CONNECTIONS
Connect with the Future

No. 21883

# NON - HAZARDOUS MANIFEST

38747 14:51

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 27.25 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/20/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Donald Daley — Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): Donald Daley
Truck Number: 46
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Donald Daley — Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffidge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014797

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | USER | |
|---|---|---|---|
| 01 | 00038747 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 14:38 | 14:51 | DODSON46 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 84200 LB
Scale 1 Tare Wt. 29700 LB
Net Weight 54500 LB

| QTY | Unit | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 27.25 | TON | CONTAMINATED SOIL-TN | | | | -- |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21883

01014798

WASTE CONNECTIONS
Connect with the Future

No. 21884

# NON - HAZARDOUS MANIFEST 38750 14:53

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.98 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Heather Allen Bush 8-28-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Bush
Truck Number: 38 DTT
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Bush 8-28-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014799

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038750 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/28/19 | 08/28/19 | 14:53 | 14:53 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79180 LB
Stored Tare Wt. 35220 LB
Net Weight 43960 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.98 | TON | CONTAMINATED SOIL-TN | | -- | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

CHANGE

CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21884

01014800

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21885

38751 14:56

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014801

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | RECEIVED BY |
|---|---|---|---|
| 01 | 00038751 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 14:56 | 14:56 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76740 LB
Stored Tare Wt. 32220 LB
Net Weight 44520 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.26 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21885

01014802

WASTE CONNECTIONS
Connect with the Future

No. 21886

# NON - HAZARDOUS MANIFEST 38755 15:32

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.89 Tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 LATEX OP
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Weitzer Printing Services 847-228-2666

01014803

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | SPID | |
|---|---|---|---|
| 01 | 00038755 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 15:32 | 15:32 | 1604 LATX | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79700 LB
Stored Tare Wt. 35920 LB
Net Weight 43780 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.89 | TON | CONTAMINATED SOIL-TN | | | | -- |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
RECEIVED

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21886

01014804

WASTE CONNECTIONS
Connect with the Future

No. 21887

# NON - HAZARDOUS MANIFEST 38759 15:49

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.11 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
8/28/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris — Driver Signature
8-28-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris — Driver Signature
8-28-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Puttle — Name of Authorized Agent (Print)
Signature
8-28-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | |
|---|---|---|---|
| 01 | 00038759 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | SCALE OPR |
|---|---|---|---|---|---|
| 08/28/19 | 08/28/19 | 15:49 | 15:49 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78700 LB
Stored Tare Wt. 34480 LB
Net Weight 44220 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.11 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21887

01014806

WASTE CONNECTIONS
Connect with the Future

No. 21888

# NON - HAZARDOUS MANIFEST

38777 7:55

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 19.96 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-29-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: DODSON 57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-29-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Cartledge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3000

01014807

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038777 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/29/19 | 08/29/19 | 07:55 | 07:55 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 72140 LB
Stored Tare Wt. 32220 LB
Net Weight 39920 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.96 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21888

01014808

WASTE CONNECTIONS
Connect with the Future

No. 21889

# NON - HAZARDOUS MANIFEST

38718 8:06

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 23 Tons | 18.20 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-29-19 Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 LA TX OR
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-29-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffidge — Name of Authorized Agent (Print)
Signature
8-29-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-939-3000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038778 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/29/19 | 08/29/19 | 08:06 | 08:06 | 1604 LATX | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 72320 LB
Stored Tare Wt. 35920 LB
Net Weight 36400 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 18.20 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CAPACL
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21889

01014810

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21891

38781 8:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | Tons | 24.35 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~

Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-29-19 Shipment Date

Driver Name (Print): Johnny Fyffe

Truck Number: Dodson Trucking Inc #53

Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-29-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ratliff — Name of Authorized Agent (Print)

Signature

8-29-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014811

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | WEIGHMASTER |
|---|---|---|---|
| 01 | 00038781 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/29/19 | 08/29/19 | 08:22 | 08:22 | DODSON53 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78300 LB
Stored Tare Wt. 29600 LB
Net Weight 48700 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.35 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21891

01014812

WASTE CONNECTIONS
Connect with the Future

No. 21892

# NON - HAZARDOUS MANIFEST 38782 8:24

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 23 Tons | 23.5 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8/29/19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56 D.T.I.
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8/29/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pettledge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-2000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038782 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | REF1 DEF |
| 08/29/19 | 08/29/19 | 08:24 | 08:24 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77940 LB
Stored Tare Wt. 30920 LB
Net Weight 47020 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.51 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHARGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21892

WASTE IS BEHIND CONTACT'S CARE ON SOLID WASTE AND DELIVERY SIGNATURE

01014814

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21893

38783 8:27

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 19.20 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rosem. Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-29-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 78-DTI
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-29-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-939-2000

01014815

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038783 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/29/19 | 08/29/19 | 08:27 | 08:27 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 73620 LB
Stored Tare Wt. 35220 LB
Net Weight 38400 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.20 | TON | CONTAMINATED SOIL-TN | 13.000 | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

TCEQ FEE

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21893

01014816

WASTE CONNECTIONS
Connect with the Future

No. 21894

# NON - HAZARDOUS MANIFEST

8/29/19 11:04

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.00 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-29-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: ST Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-29-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

**DUPLICATE TICKET**
E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038806 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL OFF |
| 08/29/19 | 08/29/19 | 11:04 | 11:04 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 83420 LB
Stored Tare Wt. 32220 LB
Net Weight 51200 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.60 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21894

NET AMOUNT

SIGNATURE

01014818

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21895

38808 11:13

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.26 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-29-19 Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 LMTX OP.
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-29-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-29-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014819

**DUPLICATE TICKET**
E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038808 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/29/19 | 08/29/19 | 11:13 | 11:13 | 1604 LATX | |
| REFERENCE | | ORIGIN | | | |
| 1565282705 | | NA | | | |

Scale 1 Gross Wt. 76440 LB
Stored Tare Wt. 35920 LB
Net Weight 40520 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.26 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21895

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

01014820

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21896

8/29/19 11:32

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 2266 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-29-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38-D
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-29-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038812 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL 2FF |
| 08/29/19 | 08/29/19 | 11:32 | 11:32 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80540 LB
Stored Tare Wt. 35220 LB
Net Weight 45320 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.66 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21896

Allen Ross

01014822

WASTE CONNECTIONS
Connect with the Future

No. 21898

# NON - HAZARDOUS MANIFEST

38017 12:00

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.30 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date: 7/29/19

Driver Name (Print): Guy Edgmon
Truck Number: #56 Odessa T
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date: 8/29/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014823

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00038817 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/29/19 | 08/29/19 | 12:00 | 12:00 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 73520 LB
Stored Tare Wt. 30920 LB
Net Weight 42600 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FSC | TOTAL |
|---|---|---|---|---|---|---|
| 21.30 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21898

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014824

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21899
30820
12:28

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.43ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-29-19 — Shipment Date

Driver Name (Print): Johnny Fyffe
Truck Number: Dodson #53
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-29-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
8/29/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014825

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038820 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/29/19 | 08/29/19 | 12:28 | 12:28 | DODSON53 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80460 LB
Stored Tare Wt. 29600 LB
Net Weight 50860 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.43 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21899

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014826

WASTE CONNECTIONS
Connect with the Future

No. 21900

# NON - HAZARDOUS MANIFEST

38841 14:48

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15800 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.14 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-29-19 Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 ZHTX OP
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-29-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-29-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014827

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038841 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/29/19 | 08/29/19 | 14:48 | 14:48 | 1604 LATX | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 82200 LB
Stored Tare Wt. 35920 LB
Net Weight 46280 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.14 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21900

01014828

WASTE CONNECTIONS
Connect with the Future

No. 21901

# NON - HAZARDOUS MANIFEST 38840 14:44

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.17 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-29-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: ST Dodson
Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-29-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038840 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/29/19 | 08/29/19 | 14:44 | 14:44 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76560 LB
Stored Tare Wt. 32220 LB
Net Weight 44340 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.17 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21901

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014830

WASTE CONNECTIONS
Connect with the Future

No. 21902

# NON - HAZARDOUS MANIFEST 38847 15:19

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.76 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-29-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38 - DTF
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-29-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie McEdge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014831

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038847 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/29/19 | 08/29/19 | 15:19 | 15:19 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 82740 LB
Stored Tare Wt. 35220 LB
Net Weight 47520 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.76 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21902

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014832

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21904

38850 15:58

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.39 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: [signature] — Shipment Date: 8/29/19

Driver Name (Print): Guy Edgmon
Truck Number: 56 Dodson
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: [signature] — Shipment Date: 8/29/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Puttnam — Name of Authorized Agent (Print)
[signature] — Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038850 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLD CHG |
| 08/29/19 | 08/29/19 | 15:58 | 15:58 | DODSON56 | |
| REFERENCE | | ORIGIN | | | |
| 1565282705 | | NA | | | |

Scale 1 Gross Wt. 81700 LB
Stored Tare Wt. 30920 LB
Net Weight 50780 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.39 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21904

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014834

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21905

38851 16:05

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.67 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature

8-29-19 — Shipment Date

Driver Name (Print): Johnny Fyffe
Truck Number: Dodson #53
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature

8-29-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038851 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TROLLEY |
| 08/29/19 | 08/29/19 | 16:05 | 16:05 | DODSON53 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 82940 LB
Stored Tare Wt. 29600 LB
Net Weight 53340 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.67 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21905

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014836

WASTE CONNECTIONS
Connect with the Future

No. 21906

# NON - HAZARDOUS MANIFEST

38852 16:12

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.14 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
8-30-15 — Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: 41
Truck Type: W.S. DTE

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
8-30-15 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Donna Rutledge — Name of Authorized Agent (Print)
Signature
8-29-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014837

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038852 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TICKET |
| 08/29/19 | 08/29/19 | 16:12 | 16:12 | DODSON41 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81920 LB
Stored Tare Wt. 31640 LB
Net Weight 50280 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.14 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21906

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

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SIGNATURE

01014838

WASTE CONNECTIONS
Connect with the Future

No. 21907

# NON - HAZARDOUS MANIFEST 38885 7.56

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 128
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 12.04 ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris 8-30-19
Driver Signature — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

8-30-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-30-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SHIFT | TICKET | | |
|---|---|---|---|
| 01 | 00038865 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/30/19 | 08/30/19 | 07:56 | 07:56 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78560 LB
Stored Tare Wt. 34480 LB
Net Weight 44080 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.04 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21907

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014840

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21908

38866 7:59

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): ~~15600 State Highway 134~~
Rose Zeiler or Kimberly Nemmers
Address: Karnack TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | ~~1565282706~~ | 22 ~~Tons~~ | 24.55 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

R. Wynn — Driver Signature
8-30-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 57 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

R. Wynn — Driver Signature
8-30-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-30-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014841

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038866 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/30/19 | 08/30/19 | 07:59 | 07:59 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81320 LB
Stored Tare Wt. 32220 LB
Net Weight 49100 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.55 | TON | CONTAMINATED SOIL-TN | | | | |

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21908

01014842

WASTE CONNECTIONS
Connect with the Future

No. 21909

# NON - HAZARDOUS MANIFEST 308608 8:09

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.14 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 8-30-19 Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 LATX OP.
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 8-30-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-30-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038868 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/30/19 | 08/30/19 | 08:09 | 08:09 | 1604 LATX | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80200 LB
Stored Tare Wt. 35920 LB
Net Weight 44280 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.14 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21909

01014844

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21910

38872 8:24

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | Ue.97 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon
Shipment Date: 8/30/19

Driver Name (Print): Guy Edgmon
Truck Number: 56 D.T.T
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-30-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014845

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038872 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/30/19 | 08/30/19 | 08:24 | 08:24 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84860 LB
Stored Tare Wt. 30920 LB
Net Weight 53940 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.97 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21910

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014846

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21911 38874 8:35

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.65 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 8-30-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 38-DTE
Truck Type: 5 end Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 8-30-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-30-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014847

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038874 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/30/19 | 08/30/19 | 08:35 | 08:35 | DOOSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76520 LB
Stored Tare Wt. 35220 LB
Net Weight 41300 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.65 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21911

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014848

WASTE CONNECTIONS
Connect with the Future

No. 21912

# NON - HAZARDOUS MANIFEST

38871 11:15

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.31 Yds | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: R. Wynn — Shipment Date: 8-30-19

Driver Name (Print): Rodney Wynn
Truck Number: 57 Dosson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: R. Wynn — Shipment Date: 8-30-19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-30-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014849

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038894 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TOLL CPE |
|---|---|---|---|---|---|
| 08/30/19 | 08/30/19 | 11:15 | 11:15 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 78840 LB
Stored Tare Wt. 32220 LB
Net Weight 46620 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.31 | TON | CONTAMINATED SOIL-TN | | | | |

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21912

01014850

WASTE CONNECTIONS
Connect with the Future

No. 21913

# NON - HAZARDOUS MANIFEST 38897 11:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.29 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

8-30-19
Driver Signature — Shipment Date

Driver Name (Print): Mickee Morris
Truck Number: Dodson #45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

8-30-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-30-19
Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3009

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038897 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 08/30/19 | 08/30/19 | 11:22 | 11:22 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79060 LB
Stored Tare Wt. 34480 LB
Net Weight 44580 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.29 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21913

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014852

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21914

38818 11:35

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20 Ft ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler — Delivery Date

Generator Authorized Agent Name (Print) — Generator Signature

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

8-30-19

Driver Signature — Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 THTX 00,
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

8-30-19

Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffcorn — 8-30-19

Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817 939 2000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00038898 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TOLL CHG |
|---|---|---|---|---|---|
| 08/30/19 | 08/30/19 | 11:35 | 11:35 | 1604 LATX | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76300 LB
Stored Tare Wt. 35920 LB
Net Weight 40380 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.19 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21914

01014854

WASTE CONNECTIONS
Connect with the future

No. 21915

# NON - HAZARDOUS MANIFEST

38899 11:40

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
5/30/19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56 O.T.I
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
5/30/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
8-30-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-2000

01014855

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00038899 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL OFF |
| 08/30/19 | 08/30/19 | 11:40 | 11:40 | DOOSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 83140 LB
Stored Tare Wt. 30920 LB
Net Weight 52220 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.11 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21915

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014856

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21916

8/30/19 11:45

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.57ton | END Dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rusk — Driver Signature — 8-30-19 — Shipment Date

Driver Name (Print): Allen Rusk
Truck Number: 38 - DTL
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rusk — Driver Signature — 8-30-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

8-30-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014857

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | | |
|---|---|---|---|---|
| 01 | 00038901 | | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 08/30/19 | 08/30/19 | 11:45 | 11:45 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84360 LB
Stored Tare Wt. 35220 LB
Net Weight 49140 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.57 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21916

01014858

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21917

39215 7:58

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (478) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.18 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9.5.19 Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 35 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-5-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

9-5-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-928-3000

01014859

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039215 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 09/05/19 | 09/05/19 | 07:58 | 07:58 | DODSON35 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 87160 LB
Stored Tare Wt. 36800 LB
Net Weight 50360 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.18 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21917

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

01014860

WASTE CONNECTIONS
Connect with the Future

No. 21918

# NON - HAZARDOUS MANIFEST

39219 8:26

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.68 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 9-4-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: 78 - DTT
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 9-4-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ratliff
Name of Authorized Agent (Print)

Signature

9-5-19
Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014861

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039219 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | |
| 09/05/19 | 09/05/19 | 08:26 | 08:26 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 82580 LB
Stored Tare Wt. 35220 LB
Net Weight 47360 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.68 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21918

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014862

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21921

39221 8:37

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.95 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9/5/19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56 D.T.I
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9/5/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I Hereby acknowledge receipt of the above-described materials.

Bonnie Ruffell — Name of Authorized Agent (Print)
Signature
9-5-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014863

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00039221 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | NULL OFF |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 08:37 | 08:37 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84820 LB
Stored Tare Wt. 30920 LB
Net Weight 53900 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.95 | TON | CONTAMINATED SOIL-TN | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21921

01014864

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21923

39222 8:39

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.32 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature

9-5-15 Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: DTT #57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature

9-5-15 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffidge — Name of Authorized Agent (Print)

Signature

9-5-15 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| DIST | TICKET | ORDER | |
|---|---|---|---|
| 01 | 00039222 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TRAILER |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 08:39 | 08:39 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76860 LB
Stored Tare Wt. 32220 LB
Net Weight 44640 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.32 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21923

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014866

WASTE CONNECTIONS
Connect with the Future

No. 21920

# NON - HAZARDOUS MANIFEST

39225 8:49

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 16-Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-5-19 Shipment Date

Driver Name (Print): Jim Hays
Truck Number: 004 Combine
Truck Type: Combine End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-5-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-5-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014867

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039225 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 09/05/19 | 09/05/19 | 08:49 | 08:49 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 82860 LB
Scale 1 Tare Wt. 29460 LB
Net Weight 53400 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.70 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21920

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014868

WASTE CONNECTIONS
Connect with the Future

No. 21922

# NON - HAZARDOUS MANIFEST 39229 9:04

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 2007 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler

Generator Authorized Agent Name (Print) — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9-5-19 Shipment Date

Driver Name (Print): DERIC IRVATCCZFF
Truck Number: 1606 LVATX OP,
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-5-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — 9-5-19

Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014869

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039229 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 09/05/19 | 09/05/19 | 09:04 | 09:04 | | |

| REFERENCE | OBSOLN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 74900 LB
Scale 1 Tare Wt. 34760 LB
Net Weight 40140 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.07 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM
Manifest: 21922

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014870

WASTE CONNECTIONS
Connect with the Future

No. 21919

# NON - HAZARDOUS MANIFEST 39231 9:10

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.35 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Charles Kind — Driver Signature
9-5-19 — Shipment Date

Driver Name (Print): Charlerkind
Truck Number: 55 Combined
Truck Type: Feed Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Charles — Driver Signature
9-5-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Ronnie Ratliff — Name of Authorized Agent (Print)
Signature
9-5-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039231 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 09/05/19 | 09/05/19 | 09:10 | 09:10 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

Manual Gross Wt. 82340 LB
Scale 1 Tare Wt. 35640 LB
Net Weight 46700 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.35 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21919

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Charles Ke

01014872

WASTE CONNECTIONS
Connect with the Future

No. 21926

# NON - HAZARDOUS MANIFEST

39262 11:58

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.39 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler

Generator Authorized Agent Name (Print) | Generator Signature | Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature | Shipment Date: 9-5-19

Driver Name (Print): STEVE OWEN
Truck Number: DIESEL
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature | Shipment Date: 9-5-19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — 9-5-19

Name of Authorized Agent (Print) | Signature | Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014873

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039262 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
| 09/05/19 | 09/05/19 | 11:58 | 11:58 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 83000 LB
Stored Tare Wt. 32220 LB
Net Weight 50780 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.39 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21926

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014874

WASTE CONNECTIONS
Connect with the Future

No. 21925

# NON - HAZARDOUS MANIFEST 39263 12:01

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): ~~15600 State Highway 134~~
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | ~~1565282705~~ | 22 Tons | 27.56 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Jaston Allen Rush 9-5-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: DTT - 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Jaston Allen Rush 9-5-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruthledge — Name of Authorized Agent (Print)
Signature
9-5-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014875

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039263 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL OFF |
| 09/05/19 | 09/05/19 | 12:01 | 12:01 | DODSON 38 | |
| REFERENCE | | ORIGIN | | | |
| 1565282705 | | NA | | | |

Scale 1 Gross Wt. 90340 LB
Stored Tare Wt. 35220 LB
Net Weight 55120 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 27.56 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21925

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Allen Ross

01014876

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21924

39264 12:07

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 25.01 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler
Generator Authorized Agent Name (Print) — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9-5-19 Shipment Date

Driver Name (Print): Jim Hays
Truck Number: 264 Conoco WE
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-5-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — 9-5-19
Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3000

01014877

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | DRIVER | |
|---|---|---|---|
| 01 | 00039264 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TRAILER |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 12:07 | 12:07 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79480 LB
Manual Tare Wt. 29460 LB
Net Weight 50020 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.01 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21924

01014878

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21927

39267 12:14

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 27.34 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: G Edgmon — Shipment Date: 9/5/19

Driver Name (Print): Guy Edgmon
Truck Number: 56 D.T.I
Truck Type: 18 wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon — Shipment Date: 9/5/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-5-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039267 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | SEAL OUT |
| 09/05/19 | 09/05/19 | 12:16 | 12:16 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 85600 LB
Stored Tare Wt. 30920 LB
Net Weight 54680 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 27.34 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM,
Manifest: 21927

SIGNATURE

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014880

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21928
39269
12:22

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 26.05 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9-5-19 Shipment Date

Driver Name (Print): Lucky Cantu
Truck Number: 1604 LATX
Truck Type: End dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-5-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-5-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00039269 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HULL OFF |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 12:22 | 12:44 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 83660 LB
Scale 1 Tare Wt. 31560 LB
Net Weight 52100 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 26.05 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM
Manifest: 21928

01014882

WASTE CONNECTIONS
Connect with the future

# NON - HAZARDOUS MANIFEST

No. 21929
39271
12:47

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.23 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

xCharleshind 9-5-19
Driver Signature — Shipment Date

Driver Name (Print): Charleshind
Truck Number: 55 Combined
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

xC harleshind 9-5-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/05/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014883

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00039271 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAULTRP |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 12:47 | 12:47 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 84100 LB
Manual Tare Wt. 35640 LB
Net Weight 48460 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.23 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21929

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

Charles Kirby

01014884

WASTE CONNECTIONS
Connect with the Future

No. 21930

# NON - HAZARDOUS MANIFEST

39778 14:04

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 14.05 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler
Generator Authorized Agent Name (Print) — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Driver Name (Print): Rodney Wynn
Truck Number: 35 Dodson
Address: 8215 Up River Rd, Corpus Christi, TX 78409
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9-5-19 Shipment Date

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-5-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Putnam — 9-5-19
Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014885

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | TRANSPORTER |
|---|---|---|---|
| 01 | 00039278 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 14:04 | 14:04 | DODSON35 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 84900 LB
Stored Tare Wt. 36800 LB
Net Weight 48100 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.05 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21930

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014886

WASTE CONNECTIONS
Connect with the Future

No. 21931

# NON - HAZARDOUS MANIFEST 39293 15:21

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3809
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24 Metoy | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-5-19
Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: DT 157
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-5-19
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-5-19
Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00039293 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | WILL CPY |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 15:21 | 15:21 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81140 LB
Stored Tare Wt. 32220 LB
Net Weight 48920 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 24.46 | TON | CONTAMINATED SOIL-TN | | | | |

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21931

01014888

WASTE CONNECTIONS
Connect with the Future

No. 21932

# NON - HAZARDOUS MANIFEST 39295 15:45

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.19 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Andy Cox — Driver Signature
9-5-19 — Shipment Date

Driver Name (Print): Andy Cox
Truck Number: 1604 CAT
Truck Type: End dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Andy Cox — Driver Signature
9-5-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-5-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014889

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| B1 | 00039295 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | SKID / LIFT |
| 09/05/19 | 09/05/19 | 15:45 | 15:45 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 73940 LB
Manual Tare Wt. 31560 LB
Net Weight 42380 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.19 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21932

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014890

WASTE CONNECTIONS
Connect with the Future

No. 21934

# NON - HAZARDOUS MANIFEST 39259 15:58

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.23 tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Name (Print): Allen Rush
Truck Number: DTL-38
Truck Type: End Dumps

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 9-5-19 — Driver Signature / Shipment Date
Allen Rush 9-5-19 — Driver Signature / Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruttledge — Name of Authorized Agent (Print)
Signature
9-5-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00039299 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TRK / CP |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 15:58 | 15:58 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81680 LB
Stored Tare Wt. 35220 LB
Net Weight 46460 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.23 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21934

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014892

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21935

39800 16:00

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.36 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9/5/19 — Shipment Date

Driver Name (Print): Guy Edgmon Jr
Truck Number: 56 D.T.2
Truck Type: 18 wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9/5/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-5-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039300 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 09/05/19 | 09/05/19 | 16:00 | 16:00 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75640 LB
Stored Tare Wt. 30920 LB
Net Weight 44720 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.36 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21935

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014894

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21933

39801 16:03

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.29 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-5-19 Shipment Date

Driver Name (Print): Jim Hays
Truck Number: 004
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-5-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rathbone — Name of Authorized Agent (Print)
Signature
9-5-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00039301 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLLERITH |
|---|---|---|---|---|---|
| 09/05/19 | 09/05/19 | 16:03 | 16:03 | 004 Combine | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78040 LB
Manual Tare Wt. 29460 LB
Net Weight 48580 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.29 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21933

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014896

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21936
39305
6:38

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 19.97 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Charleskind — Driver Signature
9-5-19 — Shipment Date

Driver Name (Print): Charleskind
Truck Number: 55 Combined
Truck Type: Charleskind

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Charleskind — Driver Signature
9-5-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/06/19 — Receipt Date

01014897

S REGIONAL LF
[illegible] M 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00039305 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 06:38 | 06:38 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76060 LB
Manual Tare Wt. 35640 LB
Net Weight 40420 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.21 | TON | CONTAMINATED SOIL-TN | | | | |

NET AMOUNT

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21936

[illegible]

01014898

WASTE CONNECTIONS
Connect with the Future

No. 21937

# NON - HAZARDOUS MANIFEST 39322 7:59

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 19.47 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 35 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9 6 19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pattese — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014899

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | SHIP | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039322 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 07:59 | 07:59 | DODSON35 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 75740 LB
Stored Tare Wt. 36800 LB
Net Weight 38940 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.47 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21937

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014900

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21939

39324 8:11

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1585282705 | 22 Tons | 22.08 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulations have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

x Guy Edgmon — Driver Signature

9/6/19 — Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56 P.T.T.
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

x Guy Edgmon — Driver Signature

9/6/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pettigrew — Name of Authorized Agent (Print)

Signature

9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014901

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039324 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 08:11 | 08:11 | DOOSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75080 LB
Stored Tare Wt. 30920 LB
Net Weight 44160 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.08 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21939

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014902

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21940

39375 8:14

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23 Heton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature

9-6-15 Shipment Date

Driver Name (Print): STEVE DUER
Truck Number: DTH
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature

9-6-15 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North East Level

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)

Signature

9-6-15 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | DATE | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039325 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL-OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 08:14 | 08:14 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78540 LB
Stored Tare Wt. 32220 LB
Net Weight 46320 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.16 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21940

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014904

WASTE CONNECTIONS
Connect with the Future

No. 21938

# NON - HAZARDOUS MANIFEST

39327 8:21

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 19.84 Tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler
Generator Authorized Agent Name (Print)

Rose M. Zeiler
Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature

9-6-19
Shipment Date

Driver Name (Print): Jerry Cantu
Truck Number: 1664 LATR
Truck Type: End dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature

9-6-19
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge
Name of Authorized Agent (Print)

Signature

9-10-19
Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039327 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 08:21 | 08:21 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 71240 LB
Manual Tare Wt. 31560 LB
Net Weight 39680 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.84 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21938

| Net AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014906

WASTE CONNECTIONS
Connect with the Future

No. 21942

# NON - HAZARDOUS MANIFEST 39329 8:27

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | A.B.O.end | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Name (Print): Allen Rush
Truck Number: DTE 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 9-6-19 — Driver Signature / Shipment Date
Allen Rush 9-6-19 — Driver Signature / Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872
Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Cartledge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | P. ORD | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039329 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 08:27 | 08:27 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 70820 LB
Stored Tare Wt. 35220 LB
Net Weight 35600 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 17.80 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21942

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

01014908

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21941
39330 8:52

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.90 ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9-6-19 Shipment Date

Driver Name (Print): Jim Hays
Truck Number: 004 Combine
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-6-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-6-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services - 817-838-2000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039330 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 08:52 | 08:52 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 73260 LB
Manual Tare Wt. 29460 LB
Net Weight 43800 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.90 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21941

01014910

WASTE CONNECTIONS
Connect with the future

No. 21945

# NON - HAZARDOUS MANIFEST 39345 11:28

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-6-15 Shipment Date

Driver Name (Print): JIEVE OWEN
Truck Number: DIE #57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-6-15 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-6-15 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039345 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HULL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 11:28 | 11:28 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76780 LB
Stored Tare Wt. 32220 LB
Net Weight 44560 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.28 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21945

NET AMOUNT
PAYMENT
CHANGE
CHECK NO

01014912

WASTE CONNECTIONS
Connect with the Future

No. 21946

# NON - HAZARDOUS MANIFEST

353416 11.30

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 17.49 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush — Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: DTE-38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush — Driver Signature
9-6-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Pruitt — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039346 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 11:30 | 11:30 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 70200 LB
Stored Tare Wt. 35220 LB
Net Weight 34980 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 17.49 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21946

| NET AMOUNT |
|---|
| ENDORSED |
| SIGNATURE |
| DRIVER'S INITIALS |

01014914

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21944

39350 11:53

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 20 Tons | 22.04 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon — Shipment Date: 9/6/19

Driver Name (Print): Guy Edgmon
Truck Number: 56 D.T.4
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon — Shipment Date: 9/6/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffedge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014915

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039350 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | TARE TYPE |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 11:53 | 11:53 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75080 LB
Stored Tare Wt. 30920 LB
Net Weight 44080 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.04 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21944

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014916

WASTE CONNECTIONS
Connect with the future

# NON - HAZARDOUS MANIFEST

No. 21948

39351 11:58

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 11.54 tons | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9-6-19 Shipment Date

Driver Name (Print): Jim Hays
Truck Number: 004 Corpus Base
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-6-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature — 9-6-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014917

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039351 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 11:58 | 11:58 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 68540 LB
Manual Tare Wt. 29460 LB
Net Weight 39080 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.54 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21948

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

01014918

WASTE CONNECTIONS
Connect with the Future

No. 21943

# NON - HAZARDOUS MANIFEST 39352 12.02

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30980
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 2157 bn | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Charles King — Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): Charles King
Truck Number: 055 combined
Truck Type: Charles King

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Charles King — Driver Signature
9-6-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partlow — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014919

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039352 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | FULL/EMPTY |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 12:02 | 12:02 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78780 LB
Manual Tare Wt. 35640 LB
Net Weight 43140 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.57 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21943

Charles Kinard

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014920

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21947
3954
12:09

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): Tony Cano
Truck Number: 1601 LATE
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-6-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/06/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014921

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | HAUL | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039354 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 12:09 | 12:09 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 71500 LB
Manual Tare Wt. 31560 LB
Net Weight 39940 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.97 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21947

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014922

WASTE CONNECTIONS
Connect with the Future

No. 21949

# NON - HAZARDOUS MANIFEST 353666 14:02

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 23.67 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

X [signature] 9-6-19
Driver Signature — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 35 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

X [signature] 9-6-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
[signature] — Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014923

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039366 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 14:02 | 14:02 | DODSON35 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 84140 LB
Stored Tare Wt. 36800 LB
Net Weight 47340 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.67 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21949

01014924

WASTE CONNECTIONS
Connect with the Future

No. 21950

# NON - HAZARDOUS MANIFEST 37374 14:53

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.66 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date

Driver Name (Print): Frank Spaulding
Truck Number: 55 Dodson
Truck Type: Freightliner

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GNID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039374 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 14:53 | 14:53 | DODSON55 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78040 LB
Stored Tare Wt. 28720 LB
Net Weight 49320 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.66 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21950

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014926

WASTE CONNECTIONS
Connect with the Future

No. 21951

# NON - HAZARDOUS MANIFEST

39375 14:55

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 15.32 Ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/06/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
09/06/19 — Shipment Date

Driver Name (Print): Donald R Dailey
Truck Number: 46 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
09/06/19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruddock — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014927

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| DATE | TICKET | UNIT | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039375 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLD CHK |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 14:55 | 14:55 | DODSON46 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 80340 LB
Stored Tare Wt. 29700 LB
Net Weight 50640 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.32 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| AMOUNT DUE |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21951

01014928

WASTE CONNECTIONS
Connect with the Future

No. 21952

# NON - HAZARDOUS MANIFEST 39378 15:21

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 22.90 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-06-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: DTF57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-6-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014929

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039378 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 15:21 | 15:21 | DODSONS7 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78020 LB
Stored Tare Wt. 32220 LB
Net Weight 45800 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.90 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21952

01014930

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21953

39379 15:28

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 20.24 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/06/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): Jimmy Hayes
Truck Number: 004 Conl Bine
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014931

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | DISP | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039379 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | REEL TRP |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 15:28 | 15:28 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 69940 LB
Manual Tare Wt. 29460 LB
Net Weight 40480 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.24 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21953

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

SIGNATURE

01014932

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21954

39380 15:31

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 52 Tons | 20.91 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/06/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Allen Rush — Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: DTL-38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush — Driver Signature
9-6-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Whitledge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014933

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039380 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 15:31 | 15:31 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 76840 LB
Stored Tare Wt. 35220 LB
Net Weight 40820 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.41 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21954

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014934

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21956 39382 15:38

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.84 | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/06/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — 9/6/19 Shipment Date

Driver Name (Print): Guy Edgmon
Truck Number: 56 DFI
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9/6/19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I Hereby acknowledge receipt of the above-described materials.

Bonnie Hedge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014935

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039382 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 15:38 | 15:38 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 74600 LB
Stored Tare Wt. 30920 LB
Net Weight 43680 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.84 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21956

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014936

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21957
39383 15:45

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 24.5 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-06-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-6-19 — Shipment Date

Driver Name (Print): Rudy Cornez
Truck Number: 1604 CAT
Truck Type: Fast dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-6-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

**DUPLICATE TICKET**
E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039383 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | REEL OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 15:45 | 15:45 | | |

| REFERENCE | ORDER |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80580 LB
Manual Tare Wt. 31560 LB
Net Weight 49020 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.51 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21957

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014938

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21958

393886 16:05

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Kamack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 21.60 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rosem. Zeiler — Generator Signature

09/06/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

+Charles King — Driver Signature

Shipment Date

Driver Name (Print): Charleskind
Truck Number: 55 combined
Truck Type: Charles King

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

+Charles King — Driver Signature

Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Puttes — Name of Authorized Agent (Print)

Signature

9-6-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014939

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039386 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLT OFF |
|---|---|---|---|---|---|
| 09/06/19 | 09/06/19 | 16:05 | 16:05 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78880 LB
Manual Tare Wt. 35640 LB
Net Weight 43240 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.62 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK #

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21958

Charles Lind

01014940

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21959
39396
8.03

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 32 | Tons | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-07-19 — Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

~~Driver~~ Signature — 9-6-19 Shipment Date

Driver Name (Print): Juan Cruz
Truck Number: 1661 LAT
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — 9-7-19 Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/07/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014941

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039396 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLD OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:03 | 08:03 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 69580 LB
Manual Tare Wt. 31560 LB
Net Weight 38020 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.01 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21959

| NET AMOUNT |
|---|
| ENDORSED |
| CHARGE |
| CHECK NO. |

01014942

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21960
39398
8.11

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 15652827D5 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/07/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

X [signature] — Driver Signature
9-7-19 — Shipment Date

Driver Name (Print): [illegible]
Truck Number: 55 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

X [signature] — Driver Signature
9-7-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
[signature] — Signature
9/07/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014943

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | UNIT | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039398 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HAUL OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:11 | 08:11 | DODSON35 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 78780 LB
Stored Tare Wt. 36800 LB
Net Weight 41980 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.99 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21960

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014944

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21961
39399
8:13

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
09/07/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

X Rodney Stevens — Driver Signature
Shipment Date

Driver Name (Print): Rodney Stevens
Truck Number: #43 Dodson
Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

X Rodney Stevens — Driver Signature
9-7-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/07/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services - 817-899-2000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039399 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLD OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:13 | 08:13 | DODSON43 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 77560 LB
Stored Tare Wt. 39720 LB
Net Weight 37840 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 18.92 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21961

01014946

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21962

39406
8:15

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-07-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

x Donald Daly — Driver Signature
Shipment Date

Driver Name (Print): Donald Daly
Truck Number: 46 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

x Donald Daly — Driver Signature
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/07/19 — Receipt Date

White - Original  Canary - Disposer Retain  Pink - Transporter Retain  Goldenrod - Generator Retain

01014947

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039400 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:15 | 08:15 | DODSON46 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 80960 LB
Stored Tare Wt. 29700 LB
Net Weight 51260 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 25.63 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21962

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK # |

01014948

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21963
39401
9:20

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
09/07/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: [signature] 9-7-19 — Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: DT 57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: [signature] 9-7-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
[signature] — Signature
9/07/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014949

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039481 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | HOLL OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:20 | 08:20 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75540 LB
Stored Tare Wt. 32220 LB
Net Weight 43320 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.66 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21963

01014950

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21964
39403
8:36

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/07/19 — Delivery Date

## TRANSPORTER

Transporter Name: ~~Valley Solvents & Chemicals~~
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-7-19 — Shipment Date

Driver Name (Print): Jm Hays
Truck Number: 004 Com Bine
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/07/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014951

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | ORIG | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039403 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL-OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:36 | 08:36 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75200 LB
Manual Tare Wt. 29460 LB
Net Weight 45740 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.87 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK # |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21964

01014952

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21965
39404
8:39

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewoood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/07/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Charleshind 9-7-19
Driver Signature — Shipment Date

Driver Name (Print): Charleshind
Truck Number: 55 combined
Truck Type: Charleshind

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Charles Hind 9-7-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/07/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039404 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:39 | 08:39 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75560 LB
Manual Tare Wt. 35640 LB
Net Weight 39920 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.96 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM,
Manifest: 21965

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

Charles P.

01014954

WASTE CONNECTIONS
Connect with the future

# NON - HAZARDOUS MANIFEST

No. 21966
39414
11:05

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Rose M. Zeiler — 09/07/19
Generator Authorized Agent Name (Print) — Generator Signature — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Allen Rush — 9-7-18
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: DTT-38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush — 9-7-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Cristina Hernandez — 9/07/1
Name of Authorized Agent (Print) — Signature — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039414 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 11:05 | 11:05 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78840 LB
Stored Tare Wt. 35220 LB
Net Weight 43620 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.81 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK # |

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21966

01014956

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 21967
39405
8:41

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/07/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature: Guy Edgmon — Shipment Date: 9/7/19

Driver Name (Print): Guy Edgmon
Truck Number: SA D.T.T
Truck Type: 18 Wheeler

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature: Guy Edgmon — Shipment Date: 9/7/19

## DESTINATION

Entity Name: IESI TX Landfill LP
Facility Type: TYPE 1 LANDFILL
Site Location: Henderson
State Permit #: MSW - 1249B
Address: 5155 FM 2867
Henderson, TX 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/07/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHTMASTER |
|---|---|---|---|
| 01 | 00039405 | | CRISTINA |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | RAIL CAR |
|---|---|---|---|---|---|
| 09/07/19 | 09/07/19 | 08:41 | 08:41 | DODSON56 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 73520 LB
Stored Tare Wt. 30920 LB
Net Weight 42600 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.30 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21967

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

WW671 TO REORDER CONTACT CARGO TEC [illegible]

01014958

WASTE CONNECTIONS
Connect with the Future

No. 21969

# NON - HAZARDOUS MANIFEST 39813 8:54

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529

Address: 455 Union Blvd, Suite 129
Lakewood, CO 80228
I.D.#: 30990

Shipping Location(s): 15600 State Highway 134
Karnack, TX 75661

Rose Zeiler or Kimberly Nemmers
Address:

Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22 Tons | 2457 ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals

Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

R. Wynn — Driver Signature

9-16-19 — Shipment Date

Driver Name (Print): Rodney Wynn

Truck Number: 35 Dodson

Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

R. Wynn — Driver Signature

9-16-19 — Shipment Date

## DESTINATION

Entity Name: IESI TX Landfill LP

Facility Type: TYPE 1 LANDFILL

Site Location: Henderson

State Permit #: MSW - 1249B

Address: 5155 FM 2867
Henderson, TX 75654

Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014959

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | | |
|---|---|---|---|
| 01 | 00039893 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 08:54 | 08:54 | DODSON35 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 85940 LB
Stored Tare Wt. 36800 LB
Net Weight 49140 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.57 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 21969

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

01014960

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0001

39894 8:56

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22.56 22 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-16-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014961

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | SHIP | |
|---|---|---|---|
| 01 | 00039894 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 08:56 | 08:56 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79600 LB
Stored Tare Wt. 34480 LB
Net Weight 45120 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.56 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0001

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014962

WASTE CONNECTIONS
Connect with the Future

No. 0002

# NON - HAZARDOUS MANIFEST 39896 9:02

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
Lakewood, CO 80228
I.D.#: 30990
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22.87 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 9-16-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: DTF 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 9-16-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014963

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | | |
|---|---|---|---|---|---|
| 01 | 00039896 | | | BONNIE R | |
| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
| 09/16/19 | 09/16/19 | 09:02 | 09:02 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80960 LB
Stored Tare Wt. 35220 LB
Net Weight 45740 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.87 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0002

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

01014964

WASTE CONNECTIONS
Connect with the Future

No. 0003

# NON - HAZARDOUS MANIFEST 35897 9:04

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 24.55 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-16-19 — Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: DTF57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruttledge — Name of Authorized Agent (Print)
Signature
9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014965

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039897 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 09:04 | 09:04 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 81320 LB
Stored Tare Wt. 32220 LB
Net Weight 49100 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 24.55 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0003

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO. |

01014966

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0005

39506 9:39

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.61 22 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date

Driver Name (Print): JERRY RUFFLEFF
Truck Number: 1606 *TATX
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014967

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00039906 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 09:39 | 09:39 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 74780 LB
Manual Tare Wt. 31560 LB
Net Weight 43220 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.61 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0005

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

01014968

WASTE CONNECTIONS
Connect with the Future

No. 0004

# NON - HAZARDOUS MANIFEST 39909 9:51

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeller or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.86 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature — 09-16-19 Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

x Melvin (JR) — Driver Signature — 09-16-19 Shipment Date

Driver Name (Print): MELVIN (JR)
Truck Number: #955 combined w/
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

x Melvin Mallard (JR) — Driver Signature — 09-16-19 Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Fulfidge — Name of Authorized Agent (Print)

Signature

9-16-19 Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014969

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039909 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 09:51 | 09:51 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79360 LB
Manual Tare Wt. 35640 LB
Net Weight 43720 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.86 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0004

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

01014970

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0006

39936 12:04

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.33 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature

9-16-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: Dodson 45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature

9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)

Signature

9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014971

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHTMASTER |
|---|---|---|---|
| 01 | 00039936 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 12:04 | 12:04 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77140 LB
Stored Tare Wt. 34480 LB
Net Weight 42660 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.33 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0006

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

01014972

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0008
30937
12:07

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
Lakewood, CO 80228
I.D.#: 30990
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22.23 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush — Driver Signature
9-16-19 — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: OTI-38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush — Driver Signature
9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/16/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039937 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 12:07 | 12:07 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79680 LB
Stored Tare Wt. 35220 LB
Net Weight 44460 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.23 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0008

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

01014974

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0007
39939
12:12

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22.92 | Ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-16-19 — Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: OTF 57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Cristina Hernandez — Name of Authorized Agent (Print)
Signature
9/16/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014975

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SLS | TICKET | SHIP | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039939 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 12:12 | 12:12 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 78060 LB
Stored Tare Wt. 32220 LB
Net Weight 45840 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.92 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0007

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014976

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0010

39947 12:54

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.09 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rosem. Zeiler — Generator Signature

09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date

Driver Name (Print): DERYL RATCLIFF
Truck Number: 1604 LATE
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ratcliff — Name of Authorized Agent (Print)

Signature

9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014977

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039947 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 12:54 | 12:54 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 73740 LB
Manual Tare Wt. 31560 LB
Net Weight 42180 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.09 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0010

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

01014978

WASTE CONNECTIONS
Connect with the Future

No. 0009

# NON - HAZARDOUS MANIFEST 39953 13:55

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.72 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Melvin Mallard — Driver Signature
9-16-19 — Shipment Date

Driver Name (Print): MELVIN Mallard
Truck Number: #055 COMBINATION
Truck Type: END Dumpe

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Melvin Mallard — Driver Signature
9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Bonnie Cutteridge — Name of Authorized Agent (Print)
Signature
9/16/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014979

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039953 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 13:55 | 13:55 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79080 LB
Manual Tare Wt. 35640 LB
Net Weight 43440 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.72 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0009

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |

01014980

WASTE CONNECTIONS
Connect with the Future

No. 0011

# NON - HAZARDOUS MANIFEST ~~39167~~ 39169 15:17

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 20.57 | 22 Ton | End dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09/16/19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Michael Morris — Driver Signature
9-16-19 — Shipment Date

Driver Name (Print): Michael Morris
Truck Number: 45 Dodson
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Michael Morris — Driver Signature
9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
[signature] — Signature
9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014981

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | SHIP | |
|---|---|---|---|
| 01 | 00039969 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 15:21 | 15:21 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Manual Gross Wt. 75620 LB
Stored Tare Wt. 34480 LB
Net Weight 41140 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 20.57 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0011

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

01014982

WASTE CONNECTIONS
Connect with the Future

No. 0012

# NON - HAZARDOUS MANIFEST 39968 15:19

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 7303 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-16-19 — Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: DT F57
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-16-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9/16/19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-2000

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00039968 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 15:19 | 15:19 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

Scale 1 Gross Wt. 78280 LB
Stored Tare Wt. 32220 LB
Net Weight 46060 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 23.03 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0012

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014984

WASTE CONNECTIONS
Connect with the Future

No. 0013

# NON - HAZARDOUS MANIFEST 35975 15:47

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 22.48 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 9-16-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: DTF-38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 9-16-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014985

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00039975 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 15:47 | 15:47 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 80180 LB
Stored Tare Wt. 35220 LB
Net Weight 44960 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 22.48 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0013

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

01014986

WASTE CONNECTIONS
Connect with the Future

No. 0014

# NON - HAZARDOUS MANIFEST

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 18.93 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-16-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date

Driver Name (Print): DERYL BRATCHER
Truck Number: 1604 LATX
Truck Type: END DUMP

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-16-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-2000

01014987

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | | |
|---|---|---|---|---|
| 01 | 00039976 | | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/16/19 | 09/16/19 | 15:52 | 15:52 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 69220 LB
Manual Tare Wt. 31560 LB
Net Weight 37660 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 18.83 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0014

NET AMOUNT
TENDERED
CHANGE
CHECK NO

01014988

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0015 40000 8:24

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 18.70 22 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem. Zeiler — Generator Signature
09-17-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

9-17-19 — Driver Signature / Shipment Date

Driver Name (Print): Michael Morris
Truck Number: Dodson #45
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

9-17-19 — Driver Signature / Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I Hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-17-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

01014989

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | SHIP | WEIGHMASTER |
|---|---|---|---|
| 01 | 00040000 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/17/19 | 09/17/19 | 08:24 | 08:24 | DODSON45 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 71880 LB
Stored Tare Wt. 34480 LB
Net Weight 37400 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 18.70 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0015

| NET AMOUNT |
|---|
| TENDERED |
| CHANGE |
| CHECK NO |

01014990

WASTE CONNECTIONS
Connect with the Future

No. 0016

# NON - HAZARDOUS MANIFEST 40001 8:39

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 19.56 22 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rosem Zeiler — Generator Signature
09-17-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-17-19 — Shipment Date

Driver Name (Print): Rodney Wynn
Truck Number: 35 Dodson
Truck Type: ENS Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-17-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-17-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-939-2050

01014991

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00040001 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/17/19 | 09/17/19 | 08:39 | 08:39 | DODSON35 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 75920 LB
Stored Tare Wt. 36800 LB
Net Weight 39120 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 19.56 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0016

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |

01014992

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0018

40002 8:42

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
Lakewood, CO 80228
I.D.#: 30990
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.98 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-17-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Nathan Allen Rush 9-17-19
Driver Signature — Shipment Date

Driver Name (Print): Allen Rush
Truck Number: DTI - 38
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Allen Rush 9-17-19
Driver Signature — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Partridge — Name of Authorized Agent (Print)
Signature
9-17-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014993

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | SHID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00040002 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/17/19 | 09/17/19 | 08:42 | 08:42 | DODSON 38 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 79180 LB
Stored Tare Wt. 35220 LB
Net Weight 43960 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.98 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0018

SIGNATURE

01014994

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0017

40007 9:05

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 17.80 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-17-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Rodney Stevens — Driver Signature
9-17-19 — Shipment Date

Driver Name (Print): Rodney Stevens
Truck Number: 43 Dodson
Truck Type: END Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Rodney Stevens — Driver Signature
9-17-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North _____ East _____ Level _____

I hereby acknowledge receipt of the above-described materials.

Bonnie Butler — Name of Authorized Agent (Print)
Signature
9-17-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services 817-860-2001

01014995

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00040007 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/17/19 | 09/17/19 | 09:05 | 09:05 | DODSON43 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NON APP |

Scale 1 Gross Wt. 75320 LB
Stored Tare Wt. 39720 LB
Net Weight 35600 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 17.80 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0017

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

01014996

WASTE CONNECTIONS
*Connect with the Future*

No. 0020

# NON - HAZARDOUS MANIFEST

40009 9:15

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
Lakewood, CO 80228
I.D.#: 30990
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 18.64 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
9-17-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature
9-17-15 — Shipment Date

Driver Name (Print): STEVE OWEN
Truck Number: DTI 57
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature
9-17-15 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)
Signature
9-17-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

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01014997

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | WEIGHMASTER |
|---|---|---|---|
| 01 | 00040009 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/17/19 | 09/17/19 | 09:15 | 09:15 | DODSON57 | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 69500 LB
Stored Tare Wt. 32220 LB
Net Weight 37280 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 18.64 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0020

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

01014998

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0019

40008 9:32

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.22 | 22 Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)

Rose M. Zeiler — Generator Signature

09-17-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Driver Name (Print): Gene Griffin
Truck Number: 11606 LATX
Address: 8215 Up River Rd, Corpus Christi, TX 78409
Truck Type: EV

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Driver Signature — Shipment Date

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Driver Signature — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Rutledge — Name of Authorized Agent (Print)

Signature

9-17-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Watkins Printing Services • 817-838-3099

01014999

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| | | | |
|---|---|---|---|
| 01 | 00040008 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/17/19 | 09/17/19 | 09:13 | 09:32 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77580 LB
Scale 1 Tare Wt. 35140 LB
Net Weight 42440 LB

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.22 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0019

WWSTL - TO REORDER CONTACT CAROLINA SOFTWARE (910) 799-6767 SIGNATURE

01015000

WASTE CONNECTIONS
Connect with the Future

# NON - HAZARDOUS MANIFEST

No. 0021

40028 11:28

## GENERATOR

Generator: Former Longhorn Army Ammunition Plant
EPA: TX6213820529
Address: 455 Union Blvd, Suite 129
I.D.#: 30990
Lakewood, CO 80228
Shipping Location(s): 15600 State Highway 134
Rose Zeiler or Kimberly Nemmers
Address: Karnack, TX 75661
Phone: (479) 635-0110, (720) 463-3909
Phone:

| Description of Waste Materials | State Industrial Waste Code # | WC Profile Number | Total Quantity | Unit of Measure | Container Type |
|---|---|---|---|---|---|
| Soil | | 1565282705 | 21.16 22 | Ton | end dump |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

I hereby certify that the above describe material are not hazardous wastes as defined by 40 CFR. Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Rose M. Zeiler — Generator Authorized Agent Name (Print)
Rose M. Zeiler — Generator Signature
09-17-19 — Delivery Date

## TRANSPORTER

Transporter Name: Valley Solvents & Chemicals
Address: 8215 Up River Rd, Corpus Christi, TX 78409

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Melvin (Sr) — Driver Signature
9-17-19 — Shipment Date

Driver Name (Print): Melvin Millard
Truck Number: Hoss Combined
Truck Type: End Dump

I hereby acknowledge receipt of the above-described materials were received from the generator shipping location and were transported without incident to the destination listed below.

Melvin Sr — Driver Signature
9-17-19 — Shipment Date

## DESTINATION

Entity Name: East Texas Regional Landfill
Facility Type: Type 1 Landfill
Site Location: Henderson
State Permit #: MSW- 1249B
Address: 5155 FM 2867 E
Henderson TX, 75654
Phone Number: (903) 889-2872

Disposal Location: North ____ East ____ Level ____

I hereby acknowledge receipt of the above-described materials.

Bonnie Ruffledge — Name of Authorized Agent (Print)
Signature
9-17-19 — Receipt Date

White - Original | Canary - Disposer Retain | Pink - Transporter Retain | Goldenrod - Generator Retain

Wathier Printing Services • 817-838-3000

01015001

E TEXAS REGIONAL LF
5155 FM 2867 E
HENDERSON, TX 75652

INBOUND CHARGE

004034 Valley Solvents & Chemicals
PO Box 18
Combes TX 78535

| SITE | TICKET | GRID | |
|---|---|---|---|
| 01 | 00040028 | | BONNIE R |

| DATE IN | DATE OUT | TIME IN | TIME OUT | VEHICLE | ROLL OFF |
|---|---|---|---|---|---|
| 09/17/19 | 09/17/19 | 11:28 | 11:28 | | |

| REFERENCE | ORIGIN |
|---|---|
| 1565282705 | NA |

Scale 1 Gross Wt. 77960 LB
Manual Tare Wt. 35640 LB
Net Weight 42320 LB

| QTY | UNIT | DESCRIPTION | RATE | EXTENSION | FEE | TOTAL |
|---|---|---|---|---|---|---|
| 21.16 | TON | CONTAMINATED SOIL-TN | | | | |

Operating Hours: M - F 8am - 4:30pm
Sat 8am-11:30am

Workorder: FORMER LONGHORN ARMY AMM.
Manifest: 0021

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO |
| |