

LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 5 of 19

2010

Bate Stamp Numbers

00086194 – 00087184

Prepared for

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

1976 – 2010

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

VOLUME 5 of 19

2010

- A. Title: Report (Continued) – Final Addendum to Final Feasibility Study
 LHAAP-16, Longhorn Army Ammunition Plant, Karnack, Texas
 Author(s): Shaw Environmental, Inc., Houston, Texas
 Recipient: All Stakeholders
 Date: March 30, 2010
 Bate Stamp: 00086194 - 00087184

Quick Facts



Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

Franklin Corporate Center

2000 Corporate Drive, Suite 350

Wexford, PA 15090

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President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate -Wide: 18 Divisions, 28 locations across 15 states



Microbac Laboratories Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800-373-4071
Fax: 740-373-4835
Email: OVL@microbac.com



Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.), in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.



158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • <http://www.microbac.com>

Laboratory Report Number: L08040312

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Debbie Elliott	<i>Team Leader</i>	delliott@microbac.com
Kathy Albertson	<i>Team Chemist/Data Specialist</i>	kalbertson@microbac.com
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Jacqueline Parsons	<i>Team Assistant</i>	jparsons@microbac.com

This report was reviewed on April 24, 2008.

Stephanie Mossburg

STEPHANIE MOSSBURG - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. 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. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on April 24, 2008.

David E. Vandenberg

David Vandenberg - Vice President

Accrediting authority: Texas Commission on Environmental Quality (Texas) ID:T104704252-07-TX
This report contains a total of 178 pages.

Look closer. Go further. Do more.



Microbac REPORT L08040312
PREPARED FOR Shaw E I, Inc.
WORK ID: QUARTERLY EFFLUENT SAMPLES

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08040312

CHAIN OF CUSTODY: The chain of custody number was 10251.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 2 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Approved: 11-APR-08

<i>Stephane Morabuz</i>

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

- ✓ R1 Field chain-of-custody documentation;
- ✓ R2 sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - b) dilution factors,
 - c) preparation methods,
 - d) Cleanup methods, and
 - e) If required for the project, tentatively identified compounds (TICs)
- ✓ R4 Surrogate recovery data including:
 - a) Calculated recovery (%R) for each analyte, and
 - b) The laboratory's surrogate QC limits.
- ✓ R5 Test reports/summary forms for blank samples;
- ✓ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amount,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- ✓ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %R and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- ✓ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- ✓ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ✓ R10 Other problems or anomalies.
- ✓ The exception Report for every "No" or "Not Reviewed (NR)" item IN laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

MIKE D. ALBERTSON



Volatiles Lab Supervisor

April 24, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08040312
 Project Name: 798-LONGHORN
 Method: 8260B
 Prep Batch Number(s): 268835, 268849, 268935
 Reviewer Name: MIKE D. ALBERTSON
 LRC Date: April 24, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?	✓				
Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			1
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <MQL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		✓			2
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?	✓				
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?			✓		
Were MS/MSD analyzed at the appropriate frequency?			✓		
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?			✓		
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			✓		
Were analytical duplicates analyzed at the appropriate frequency?			✓		
Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
ICAL					
Were response factors and/or relative response factors for each analyte within QC limits?	✓				
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?	✓				
Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			✓		
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?	✓				
Were ion abundance data within the method-required QC limits?	✓				
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?	✓				
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?	✓				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NR(2)	ER(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

EXCEPTIONS REPORT

ER# - Description

#1: Toluene-d8 exceeded the upper control limit in the analyses of samples 01, 02, 03, 04, 05, 06, 07, 08, 09, and 10 and the dilution analyses of samples 01, 02, 03, and 04.

Surrogate toluene-d8 exceeded the upper control limit in the water method blanks analyzed 04/18/08, 04/19/08, and 04/21/08 on HPMS-8.

#2: Dichlorodifluoromethane and vinyl chloride exceeded the upper advisory limits and surrogate toluene-d8 exceeded the upper control limit in the LCS/LCSD's analyzed 04/18/08 and 04/19/08 on HPMS-8.

Footnotes:

(1) NA = Not applicable to method or project

(2) NR = Not reviewed

(3) ER# = Exception report number

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) Cleanup methods, and
- e) If required for the project, tentatively identified compounds (TICs)

R4 Surrogate recovery data including:

- a) Calculated recovery (%R) for each analyte, and
- b) The laboratory's surrogate QC limits.

✓ R5 Test reports/summary forms for blank samples;

✓ R6 Test reports/summary forms for laboratory control samples (LCSs) including:

- a) LCS spiking amount,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %R and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

✓ R8 Laboratory analytical duplicate (if applicable) recovery and precision:

- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;

R10 Other problems or anomalies.

✓ The exception Report for every "No" or "Not Reviewed (NR)" item IN laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

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MICHAEL D. COCHRAN



Semivolatiles Lab Supervisor

April 16, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08040312
 Project Name: 798-LONGHORN
 Method: 300
 Prep Batch Number(s): WG268373
 Reviewer Name: MICHAEL D. COCHRAN
 LRC Date: April 15, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?			✓		
Were % moisture (or solids) reported for all soil and sediment samples?			✓		
If required for the project, TICs reported?	✓				
Surrogate recovery data					
Were surrogates added prior to extraction?			✓		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <MQL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?			✓		
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?	✓				
Were MS/MSD analyzed at the appropriate frequency?	✓				
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				1

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?	✓				
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?	✓				
Were analytical duplicates analyzed at the appropriate frequency?	✓				
Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
Were response factors and/or relative response factors for each analyte within QC limits?	✓				
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?	✓				
Was the absolute value of the analyte concentration in the inorganic CCB <MDL?	✓				
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?			✓		
Were ion abundance data within the method-required QC limits?			✓		
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?			✓		
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?	✓				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NA(2)	NA(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name:	<u>Microbac Laboratories Inc.</u>
Laboratory Log Number:	<u>L08040312</u>
Project Name:	<u>798-LONGHORN</u>
Method:	<u>300</u>
Prep Batch Number(s):	<u>WG268373</u>
Reviewer Name:	<u>MICHAEL D. COCHRAN</u>
LRC Date:	<u>April 15, 2008</u>

EXCEPTIONS REPORT**ER# - Description**

1. The MS/MSD results were not associated with this sample delivery group.

(1) NA = Not applicable to method or project

(2) NR = Not reviewed

(3) ER# = Exception report number

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

LABORATORY REPORT

00086211

L08040312

04/24/08 16:54

Submitted By

Microbac Laboratories Inc.

158 Starlite Drive

Marietta , OH 45750

(740) 373 - 4071

For

Account Name: Shaw E & I. Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Larry Duty

Project Number: 2773.025
Project: Longhorn AAP
Site: QUARTERLY EFFLUENT SAMPLES

P.O. Number: 389869

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
EXT1-040908	L08040312-01	8260B	50	10-APR-08
EXT1-040908	L08040312-01	8260B	200	10-APR-08
EXT2-040908	L08040312-02	8260B	50	10-APR-08
EXT2-040908	L08040312-02	8260B	500	10-APR-08
EXT3-040908	L08040312-03	8260B	50	10-APR-08
EXT3-040908	L08040312-03	8260B	250	10-APR-08
EXT4-040908	L08040312-04	8260B	50	10-APR-08
EXT4-040908	L08040312-04	8260B	500	10-APR-08
EXT5-040908	L08040312-05	8260B	2.5	10-APR-08
EXT6-040908	L08040312-06	8260B	20	10-APR-08
EXT7-040908	L08040312-07	8260B	1	10-APR-08
EXT8-040908	L08040312-08	8260B	5	10-APR-08
EXT8-040908-FD	L08040312-09	8260B	5	10-APR-08
TRIP BLANK	L08040312-10	8260B	1	10-APR-08



Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086212

Sample Number: **L08040312-01**
 Client ID: **EXT1-040908**
 Matrix: **Water**
 Workgroup Number: **WG268835**
 Collect Date: **04/09/2008 08:00**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS/ASP**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 05:47**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 05:47**
 File ID: **8M344544**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	500	125
Benzene	71-43-2		U	50.0	6.25
Bromobenzene	108-86-1		U	50.0	6.25
Bromochloromethane	74-97-5		U	50.0	10.0
Bromodichloromethane	75-27-4		U	50.0	12.5
Bromoform	75-25-2		U	50.0	25.0
Bromomethane	74-83-9		U	50.0	25.0
2-Butanone	78-93-3		U	500	125
n-Butylbenzene	104-51-8		U	50.0	12.5
sec-Butylbenzene	135-98-8		U	50.0	12.5
tert-Butylbenzene	98-06-6		U	50.0	12.5
Carbon disulfide	75-15-0		U	50.0	25.0
Carbon tetrachloride	56-23-5		U	50.0	12.5
Chlorobenzene	108-90-7		U	50.0	6.25
Chlorodibromomethane	124-48-1		U	50.0	12.5
Chloroethane	75-00-3		U	50.0	25.0
2-Chloroethyl vinyl ether	110-75-8		U	500	100
Chloroform	67-66-3		U	50.0	6.25
Chloromethane	74-87-3		U	50.0	12.5
2-Chlorotoluene	95-49-8		U	50.0	6.25
4-Chlorotoluene	106-43-4		U	50.0	12.5
1,2-Dibromo-3-chloropropane	96-12-8		U	250	50.0
1,2-Dibromoethane	106-93-4		U	50.0	12.5
Dibromomethane	74-95-3		U	50.0	12.5
1,2-Dichlorobenzene	95-50-1		U	50.0	6.25
1,3-Dichlorobenzene	541-73-1		U	50.0	12.5
1,4-Dichlorobenzene	106-46-7		U	50.0	6.25
Dichlorodifluoromethane	75-71-8		U	50.0	12.5
1,1-Dichloroethane	75-34-3		U	50.0	6.25
1,2-Dichloroethane	107-06-2	108		50.0	12.5
1,1-Dichloroethene	75-35-4	56.8		50.0	25.0
cis-1,2-Dichloroethene	156-59-2	7490		50.0	12.5
trans-1,2-Dichloroethene	156-60-5	15.0	J	50.0	12.5
1,2-Dichloropropane	78-87-5		U	50.0	10.0
1,3-Dichloropropane	142-28-9		U	50.0	10.0
2,2-Dichloropropane	594-20-7		U	50.0	12.5
cis-1,3-Dichloropropene	10061-01-5		U	50.0	12.5
trans-1,3-Dichloropropene	10061-02-6		U	50.0	25.0
1,1-Dichloropropene	563-58-6		U	50.0	12.5
Ethylbenzene	100-41-4		U	50.0	12.5
2-Hexanone	591-78-6		U	500	125
Hexachlorobutadiene	87-68-3		U	50.0	12.5
Isopropylbenzene	98-82-8		U	50.0	12.5
p-Isopropyltoluene	99-87-6		U	50.0	12.5
4-Methyl-2-pentanone	108-10-1		U	500	125
Methylene chloride	75-09-2		U	250	12.5
Naphthalene	91-20-3		U	50.0	10.0
n-Propylbenzene	103-65-1		U	50.0	6.25

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Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086213

Sample Number: **L08040312-01**
 Client ID: **EXT1-040908**
 Matrix: **Water**
 Workgroup Number: **WG268835**
 Collect Date: **04/09/2008 08:00**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS/ASP**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 05:47**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 05:47**
 File ID: **8M344544**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	50.0	6.25
1,1,1,2-Tetrachloroethane	630-20-6		U	50.0	12.5
1,1,2,2-Tetrachloroethane	79-34-5		U	50.0	6.25
Tetrachloroethene	127-18-4		U	50.0	12.5
Toluene	108-88-3		U	50.0	12.5
1,2,3-Trichlorobenzene	87-61-6		U	50.0	7.50
1,2,4-Trichlorobenzene	120-82-1		U	50.0	10.0
1,1,1-Trichloroethane	71-55-6		U	50.0	12.5
1,1,2-Trichloroethane	79-00-5		U	50.0	12.5
Trichloroethene	79-01-6	10200	I	50.0	12.5
Trichlorofluoromethane	75-69-4		U	50.0	12.5
1,2,3-Trichloropropane	96-18-4		U	50.0	25.0
1,2,4-Trimethylbenzene	95-63-6		U	50.0	12.5
1,3,5-Trimethylbenzene	108-67-8		U	50.0	12.5
Vinyl acetate	108-05-4		U	500	125
Vinyl chloride	75-01-4	87.9		50.0	12.5
o-Xylene	95-47-6		U	50.0	12.5
m-,p-Xylene	136777-61-2		U	50.0	25.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	108	86	118		
1,2-Dichloroethane-d4	109	80	120		
Toluene-d8	114	88	110	*	
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL
 * Surrogate or spike compound out of range
 I Semiquantitative result (out of instrument calibration range)

Sample Number: L08040312-01
 Client ID: EXT1-040908
 Matrix: Water
 Workgroup Number: WG268849
 Collect Date: 04/09/2008 08:00
 Sample Tag: DL02

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 200
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 14:53
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 14:53
 File ID: 8M344561

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	2000	500
Benzene	71-43-2		U	200	25.0
Bromobenzene	108-86-1		U	200	25.0
Bromochloromethane	74-97-5		U	200	40.0
Bromodichloromethane	75-27-4		U	200	50.0
Bromoform	75-25-2		U	200	100
Bromomethane	74-83-9		U	200	100
2-Butanone	78-93-3		U	2000	500
n-Butylbenzene	104-51-8		U	200	50.0
sec-Butylbenzene	135-98-8		U	200	50.0
tert-Butylbenzene	98-06-6		U	200	50.0
Carbon disulfide	75-15-0		U	200	100
Carbon tetrachloride	56-23-5		U	200	50.0
Chlorobenzene	108-90-7		U	200	25.0
Chlorodibromomethane	124-48-1		U	200	50.0
Chloroethane	75-00-3		U	200	100
2-Chloroethyl vinyl ether	110-75-8		U	2000	400
Chloroform	67-66-3		U	200	25.0
Chloromethane	74-87-3		U	200	50.0
2-Chlorotoluene	95-49-8		U	200	25.0
4-Chlorotoluene	106-43-4		U	200	50.0
1,2-Dibromo-3-chloropropane	96-12-8		U	1000	200
1,2-Dibromoethane	106-93-4		U	200	50.0
Dibromomethane	74-95-3		U	200	50.0
1,2-Dichlorobenzene	95-50-1		U	200	25.0
1,3-Dichlorobenzene	541-73-1		U	200	50.0
1,4-Dichlorobenzene	106-46-7		U	200	25.0
Dichlorodifluoromethane	75-71-8		U	200	50.0
1,1-Dichloroethane	75-34-3		U	200	25.0
1,2-Dichloroethane	107-06-2	107	J	200	50.0
1,1-Dichloroethene	75-35-4	149	J	200	100
cis-1,2-Dichloroethene	156-59-2	8400		200	50.0
trans-1,2-Dichloroethene	156-60-5		U	200	50.0
1,2-Dichloropropane	78-87-5		U	200	40.0
1,3-Dichloropropane	142-28-9		U	200	40.0
2,2-Dichloropropane	594-20-7		U	200	50.0
cis-1,3-Dichloropropene	10061-01-5		U	200	50.0
trans-1,3-Dichloropropene	10061-02-6		U	200	100
1,1-Dichloropropene	563-58-6		U	200	50.0
Ethylbenzene	100-41-4		U	200	50.0
2-Hexanone	591-78-6		U	2000	500
Hexachlorobutadiene	87-68-3		U	200	50.0
Isopropylbenzene	98-82-8		U	200	50.0
p-Isopropyltoluene	99-87-6		U	200	50.0
4-Methyl-2-pentanone	108-10-1		U	2000	500
Methylene chloride	75-09-2	59.3	J	1000	50.0
Naphthalene	91-20-3		U	200	40.0
n-Propylbenzene	103-65-1		U	200	25.0

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Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086215

Sample Number: **L08040312-01**
 Client ID: **EXT1-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:00**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **200**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 14:53**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 14:53**
 File ID: **8M344561**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	200	25.0
1,1,1,2-Tetrachloroethane	630-20-6		U	200	50.0
1,1,2,2-Tetrachloroethane	79-34-5		U	200	25.0
Tetrachloroethene	127-18-4		U	200	50.0
Toluene	108-88-3		U	200	50.0
1,2,3-Trichlorobenzene	87-61-6		U	200	30.0
1,2,4-Trichlorobenzene	120-82-1		U	200	40.0
1,1,1-Trichloroethane	71-55-6		U	200	50.0
1,1,2-Trichloroethane	79-00-5		U	200	50.0
Trichloroethene	79-01-6	11800		200	50.0
Trichlorofluoromethane	75-69-4		U	200	50.0
1,2,3-Trichloropropane	96-18-4		U	200	100
1,2,4-Trimethylbenzene	95-63-6		U	200	50.0
1,3,5-Trimethylbenzene	108-67-8		U	200	50.0
Vinyl acetate	108-05-4		U	2000	500
Vinyl chloride	75-01-4	105	J	200	50.0
o-Xylene	95-47-6		U	200	50.0
m-,p-Xylene	136777-61-2		U	200	100
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	107	86	118		
1,2-Dichloroethane-d4	107	80	120		
Toluene-d8	112	88	110	*	
4-Bromofluorobenzene	106	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: **L08040312-02**
Client ID: **EXT2-040908**
Matrix: **Water**
Workgroup Number: **WG268835**
Collect Date: **04/09/2008 08:15**
Sample Tag: **DL01**PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CMS/ASP**
Dilution: **50**
Units: **ug/L**Instrument: **HPMS8**
Prep Date: **04/19/2008 06:19**
Cal Date: **04/02/2008 18:28**
Run Date: **04/19/2008 06:19**
File ID: **8M344545**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	500	125
Benzene	71-43-2		U	50.0	6.25
Bromobenzene	108-86-1		U	50.0	6.25
Bromochloromethane	74-97-5		U	50.0	10.0
Bromodichloromethane	75-27-4		U	50.0	12.5
Bromoform	75-25-2		U	50.0	25.0
Bromomethane	74-83-9		U	50.0	25.0
2-Butanone	78-93-3		U	500	125
n-Butylbenzene	104-51-8		U	50.0	12.5
sec-Butylbenzene	135-98-8		U	50.0	12.5
tert-Butylbenzene	98-06-6		U	50.0	12.5
Carbon disulfide	75-15-0		U	50.0	25.0
Carbon tetrachloride	56-23-5		U	50.0	12.5
Chlorobenzene	108-90-7		U	50.0	6.25
Chlorodibromomethane	124-48-1		U	50.0	12.5
Chloroethane	75-00-3		U	50.0	25.0
2-Chloroethyl vinyl ether	110-75-8		U	500	100
Chloroform	67-66-3	21.6	J	50.0	6.25
Chloromethane	74-87-3		U	50.0	12.5
2-Chlorotoluene	95-49-8		U	50.0	6.25
4-Chlorotoluene	106-43-4		U	50.0	12.5
1,2-Dibromo-3-chloropropane	96-12-8		U	250	50.0
1,2-Dibromoethane	106-93-4		U	50.0	12.5
Dibromomethane	74-95-3		U	50.0	12.5
1,2-Dichlorobenzene	95-50-1		U	50.0	6.25
1,3-Dichlorobenzene	541-73-1		U	50.0	12.5
1,4-Dichlorobenzene	106-46-7		U	50.0	6.25
Dichlorodifluoromethane	75-71-8		U	50.0	12.5
1,1-Dichloroethane	75-34-3		U	50.0	6.25
1,2-Dichloroethane	107-06-2	86.1		50.0	12.5
1,1-Dichloroethene	75-35-4	112		50.0	25.0
cis-1,2-Dichloroethene	156-59-2	27400	I	50.0	12.5
trans-1,2-Dichloroethene	156-60-5	35.0	J	50.0	12.5
1,2-Dichloropropane	78-87-5		U	50.0	10.0
1,3-Dichloropropane	142-28-9		U	50.0	10.0
2,2-Dichloropropane	594-20-7		U	50.0	12.5
cis-1,3-Dichloropropene	10061-01-5		U	50.0	12.5
trans-1,3-Dichloropropene	10061-02-6		U	50.0	25.0
1,1-Dichloropropene	563-58-6		U	50.0	12.5
Ethylbenzene	100-41-4		U	50.0	12.5
2-Hexanone	591-78-6		U	500	125
Hexachlorobutadiene	87-68-3		U	50.0	12.5
Isopropylbenzene	98-82-8		U	50.0	12.5
p-Isopropyltoluene	99-87-6		U	50.0	12.5
4-Methyl-2-pentanone	108-10-1		U	500	125
Methylene chloride	75-09-2	23.3	J	250	12.5
Naphthalene	91-20-3		U	50.0	10.0
n-Propylbenzene	103-65-1		U	50.0	6.25

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Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086217

Sample Number: **L08040312-02**
 Client ID: **EXT2-040908**
 Matrix: **Water**
 Workgroup Number: **WG268835**
 Collect Date: **04/09/2008 08:15**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS/ASP**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 06:19**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 06:19**
 File ID: **8M344545**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	50.0	6.25
1,1,1,2-Tetrachloroethane	630-20-6		U	50.0	12.5
1,1,2,2-Tetrachloroethane	79-34-5		U	50.0	6.25
Tetrachloroethene	127-18-4		U	50.0	12.5
Toluene	108-88-3		U	50.0	12.5
1,2,3-Trichlorobenzene	87-61-6		U	50.0	7.50
1,2,4-Trichlorobenzene	120-82-1		U	50.0	10.0
1,1,1-Trichloroethane	71-55-6		U	50.0	12.5
1,1,2-Trichloroethane	79-00-5	18.5	J	50.0	12.5
Trichloroethene	79-01-6	46900	I	50.0	12.5
Trichlorofluoromethane	75-69-4		U	50.0	12.5
1,2,3-Trichloropropane	96-18-4		U	50.0	25.0
1,2,4-Trimethylbenzene	95-63-6		U	50.0	12.5
1,3,5-Trimethylbenzene	108-67-8		U	50.0	12.5
Vinyl acetate	108-05-4		U	500	125
Vinyl chloride	75-01-4	294	Q	50.0	12.5
o-Xylene	95-47-6		U	50.0	12.5
m-,p-Xylene	136777-61-2		U	50.0	25.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	108	86	118		
1,2-Dichloroethane-d4	109	80	120		
Toluene-d8	113	88	110	*	
4-Bromofluorobenzene	100	86	115		

Q One or more quality control criteria fail. See narrative.
 U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL
 * Surrogate or spike compound out of range
 I Semiquantitative result (out of instrument calibration range)

Sample Number: L08040312-02
 Client ID: EXT2-040908
 Matrix: Water
 Workgroup Number: WG268849
 Collect Date: 04/09/2008 08:15
 Sample Tag: DL02

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 500
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 15:25
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 15:25
 File ID: 8M344562

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	5000	1250
Benzene	71-43-2		U	500	62.5
Bromobenzene	108-86-1		U	500	62.5
Bromochloromethane	74-97-5		U	500	100
Bromodichloromethane	75-27-4		U	500	125
Bromoform	75-25-2		U	500	250
Bromomethane	74-83-9		U	500	250
2-Butanone	78-93-3		U	5000	1250
n-Butylbenzene	104-51-8		U	500	125
sec-Butylbenzene	135-98-8		U	500	125
tert-Butylbenzene	98-06-6		U	500	125
Carbon disulfide	75-15-0		U	500	250
Carbon tetrachloride	56-23-5		U	500	125
Chlorobenzene	108-90-7		U	500	62.5
Chlorodibromomethane	124-48-1		U	500	125
Chloroethane	75-00-3		U	500	250
2-Chloroethyl vinyl ether	110-75-8		U	5000	1000
Chloroform	67-66-3		U	500	62.5
Chloromethane	74-87-3		U	500	125
2-Chlorotoluene	95-49-8		U	500	62.5
4-Chlorotoluene	106-43-4		U	500	125
1,2-Dibromo-3-chloropropane	96-12-8		U	2500	500
1,2-Dibromoethane	106-93-4		U	500	125
Dibromomethane	74-95-3		U	500	125
1,2-Dichlorobenzene	95-50-1		U	500	62.5
1,3-Dichlorobenzene	541-73-1		U	500	125
1,4-Dichlorobenzene	106-46-7		U	500	62.5
Dichlorodifluoromethane	75-71-8		U	500	125
1,1-Dichloroethane	75-34-3		U	500	62.5
1,2-Dichloroethane	107-06-2		U	500	125
1,1-Dichloroethene	75-35-4	403	J	500	250
cis-1,2-Dichloroethene	156-59-2	37600		500	125
trans-1,2-Dichloroethene	156-60-5		U	500	125
1,2-Dichloropropane	78-87-5		U	500	100
1,3-Dichloropropane	142-28-9		U	500	100
2,2-Dichloropropane	594-20-7		U	500	125
cis-1,3-Dichloropropene	10061-01-5		U	500	125
trans-1,3-Dichloropropene	10061-02-6		U	500	250
1,1-Dichloropropene	563-58-6		U	500	125
Ethylbenzene	100-41-4		U	500	125
2-Hexanone	591-78-6		U	5000	1250
Hexachlorobutadiene	87-68-3		U	500	125
Isopropylbenzene	98-82-8		U	500	125
p-Isopropyltoluene	99-87-6		U	500	125
4-Methyl-2-pentanone	108-10-1		U	5000	1250
Methylene chloride	75-09-2	150	J	2500	125
Naphthalene	91-20-3		U	500	100
n-Propylbenzene	103-65-1		U	500	62.5

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Report Number: **L08040312**Report Date : **April 24, 2008**

00086219

Sample Number: **L08040312-02**
 Client ID: **EXT2-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:15**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **500**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 15:25**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 15:25**
 File ID: **8M344562**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	500	62.5
1,1,1,2-Tetrachloroethane	630-20-6		U	500	125
1,1,2,2-Tetrachloroethane	79-34-5		U	500	62.5
Tetrachloroethene	127-18-4		U	500	125
Toluene	108-88-3	149	J	500	125
1,2,3-Trichlorobenzene	87-61-6		U	500	75.0
1,2,4-Trichlorobenzene	120-82-1		U	500	100
1,1,1-Trichloroethane	71-55-6		U	500	125
1,1,2-Trichloroethane	79-00-5		U	500	125
Trichloroethene	79-01-6	94900		500	125
Trichlorofluoromethane	75-69-4		U	500	125
1,2,3-Trichloropropane	96-18-4		U	500	250
1,2,4-Trimethylbenzene	95-63-6		U	500	125
1,3,5-Trimethylbenzene	108-67-8		U	500	125
Vinyl acetate	108-05-4		U	5000	1250
Vinyl chloride	75-01-4	405	J	500	125
o-Xylene	95-47-6		U	500	125
m-,p-Xylene	136777-61-2		U	500	250
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	109	86	118		
1,2-Dichloroethane-d4	108	80	120		
Toluene-d8	112	88	110	*	
4-Bromofluorobenzene	106	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: L08040312-03
 Client ID: EXT3-040908
 Matrix: Water
 Workgroup Number: WG268835
 Collect Date: 04/09/2008 08:30
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS/ASP
 Dilution: 50
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 06:52
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 06:52
 File ID: 8M344546

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	500	125
Benzene	71-43-2		U	50.0	6.25
Bromobenzene	108-86-1		U	50.0	6.25
Bromochloromethane	74-97-5		U	50.0	10.0
Bromodichloromethane	75-27-4		U	50.0	12.5
Bromoform	75-25-2		U	50.0	25.0
Bromomethane	74-83-9		U	50.0	25.0
2-Butanone	78-93-3		U	500	125
n-Butylbenzene	104-51-8		U	50.0	12.5
sec-Butylbenzene	135-98-8		U	50.0	12.5
tert-Butylbenzene	98-06-6		U	50.0	12.5
Carbon disulfide	75-15-0		U	50.0	25.0
Carbon tetrachloride	56-23-5		U	50.0	12.5
Chlorobenzene	108-90-7		U	50.0	6.25
Chlorodibromomethane	124-48-1		U	50.0	12.5
Chloroethane	75-00-3		U	50.0	25.0
2-Chloroethyl vinyl ether	110-75-8		U	500	100
Chloroform	67-66-3		U	50.0	6.25
Chloromethane	74-87-3		U	50.0	12.5
2-Chlorotoluene	95-49-8		U	50.0	6.25
4-Chlorotoluene	106-43-4		U	50.0	12.5
1,2-Dibromo-3-chloropropane	96-12-8		U	250	50.0
1,2-Dibromoethane	106-93-4		U	50.0	12.5
Dibromomethane	74-95-3		U	50.0	12.5
1,2-Dichlorobenzene	95-50-1		U	50.0	6.25
1,3-Dichlorobenzene	541-73-1		U	50.0	12.5
1,4-Dichlorobenzene	106-46-7		U	50.0	6.25
Dichlorodifluoromethane	75-71-8		U	50.0	12.5
1,1-Dichloroethane	75-34-3		U	50.0	6.25
1,2-Dichloroethane	107-06-2		U	50.0	12.5
1,1-Dichloroethene	75-35-4	47.0	J	50.0	25.0
cis-1,2-Dichloroethene	156-59-2	1580		50.0	12.5
trans-1,2-Dichloroethene	156-60-5		U	50.0	12.5
1,2-Dichloropropane	78-87-5		U	50.0	10.0
1,3-Dichloropropane	142-28-9		U	50.0	10.0
2,2-Dichloropropane	594-20-7		U	50.0	12.5
cis-1,3-Dichloropropene	10061-01-5		U	50.0	12.5
trans-1,3-Dichloropropene	10061-02-6		U	50.0	25.0
1,1-Dichloropropene	563-58-6		U	50.0	12.5
Ethylbenzene	100-41-4		U	50.0	12.5
2-Hexanone	591-78-6		U	500	125
Hexachlorobutadiene	87-68-3		U	50.0	12.5
Isopropylbenzene	98-82-8		U	50.0	12.5
p-Isopropyltoluene	99-87-6		U	50.0	12.5
4-Methyl-2-pentanone	108-10-1		U	500	125
Methylene chloride	75-09-2		U	250	12.5
Naphthalene	91-20-3		U	50.0	10.0
n-Propylbenzene	103-65-1		U	50.0	6.25

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Sample Number: L08040312-03
 Client ID: EXT3-040908
 Matrix: Water
 Workgroup Number: WG268835
 Collect Date: 04/09/2008 08:30
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS/ASP
 Dilution: 50
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 06:52
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 06:52
 File ID: 8M344546

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	50.0	6.25
1,1,1,2-Tetrachloroethane	630-20-6		U	50.0	12.5
1,1,2,2-Tetrachloroethane	79-34-5		U	50.0	6.25
Tetrachloroethene	127-18-4		U	50.0	12.5
Toluene	108-88-3		U	50.0	12.5
1,2,3-Trichlorobenzene	87-61-6		U	50.0	7.50
1,2,4-Trichlorobenzene	120-82-1		U	50.0	10.0
1,1,1-Trichloroethane	71-55-6		U	50.0	12.5
1,1,2-Trichloroethane	79-00-5		U	50.0	12.5
Trichloroethene	79-01-6	17700	I	50.0	12.5
Trichlorofluoromethane	75-69-4		U	50.0	12.5
1,2,3-Trichloropropane	96-18-4		U	50.0	25.0
1,2,4-Trimethylbenzene	95-63-6		U	50.0	12.5
1,3,5-Trimethylbenzene	108-67-8		U	50.0	12.5
Vinyl acetate	108-05-4		U	500	125
Vinyl chloride	75-01-4		U	50.0	12.5
o-Xylene	95-47-6		U	50.0	12.5
m-,p-Xylene	136777-61-2		U	50.0	25.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	105	86	118		
1,2-Dichloroethane-d4	104	80	120		
Toluene-d8	112	88	110	*	
4-Bromofluorobenzene	98.0	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

I Semiquantitative result (out of instrument calibration range)

Sample Number: L08040312-03
 Client ID: EXT3-040908
 Matrix: Water
 Workgroup Number: WG268849
 Collect Date: 04/09/2008 08:30
 Sample Tag: DL02

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 250
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 15:58
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 15:58
 File ID: 8M344563

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	2500	625
Benzene	71-43-2		U	250	31.3
Bromobenzene	108-86-1		U	250	31.3
Bromochloromethane	74-97-5		U	250	50.0
Bromodichloromethane	75-27-4		U	250	62.5
Bromoform	75-25-2		U	250	125
Bromomethane	74-83-9		U	250	125
2-Butanone	78-93-3		U	2500	625
n-Butylbenzene	104-51-8		U	250	62.5
sec-Butylbenzene	135-98-8		U	250	62.5
tert-Butylbenzene	98-06-6		U	250	62.5
Carbon disulfide	75-15-0		U	250	125
Carbon tetrachloride	56-23-5		U	250	62.5
Chlorobenzene	108-90-7		U	250	31.3
Chlorodibromomethane	124-48-1		U	250	62.5
Chloroethane	75-00-3		U	250	125
2-Chloroethyl vinyl ether	110-75-8		U	2500	500
Chloroform	67-66-3		U	250	31.3
Chloromethane	74-87-3		U	250	62.5
2-Chlorotoluene	95-49-8		U	250	31.3
4-Chlorotoluene	106-43-4		U	250	62.5
1,2-Dibromo-3-chloropropane	96-12-8		U	1250	250
1,2-Dibromoethane	106-93-4		U	250	62.5
Dibromomethane	74-95-3		U	250	62.5
1,2-Dichlorobenzene	95-50-1		U	250	31.3
1,3-Dichlorobenzene	541-73-1		U	250	62.5
1,4-Dichlorobenzene	106-46-7		U	250	31.3
Dichlorodifluoromethane	75-71-8		U	250	62.5
1,1-Dichloroethane	75-34-3		U	250	31.3
1,2-Dichloroethane	107-06-2		U	250	62.5
1,1-Dichloroethene	75-35-4		U	250	125
cis-1,2-Dichloroethene	156-59-2	1640		250	62.5
trans-1,2-Dichloroethene	156-60-5		U	250	62.5
1,2-Dichloropropane	78-87-5		U	250	50.0
1,3-Dichloropropane	142-28-9		U	250	50.0
2,2-Dichloropropane	594-20-7		U	250	62.5
cis-1,3-Dichloropropene	10061-01-5		U	250	62.5
trans-1,3-Dichloropropene	10061-02-6		U	250	125
1,1-Dichloropropene	563-58-6		U	250	62.5
Ethylbenzene	100-41-4		U	250	62.5
2-Hexanone	591-78-6		U	2500	625
Hexachlorobutadiene	87-68-3		U	250	62.5
Isopropylbenzene	98-82-8		U	250	62.5
p-Isopropyltoluene	99-87-6		U	250	62.5
4-Methyl-2-pentanone	108-10-1		U	2500	625
Methylene chloride	75-09-2	67.1	J	1250	62.5
Naphthalene	91-20-3		U	250	50.0
n-Propylbenzene	103-65-1		U	250	31.3

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Report Number: **L08040312**Report Date : **April 24, 2008**

00086223

Sample Number: **L08040312-03**
 Client ID: **EXT3-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:30**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **250**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 15:58**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 15:58**
 File ID: **8M344563**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	250	31.3
1,1,1,2-Tetrachloroethane	630-20-6		U	250	62.5
1,1,2,2-Tetrachloroethane	79-34-5		U	250	31.3
Tetrachloroethene	127-18-4		U	250	62.5
Toluene	108-88-3		U	250	62.5
1,2,3-Trichlorobenzene	87-61-6		U	250	37.5
1,2,4-Trichlorobenzene	120-82-1		U	250	50.0
1,1,1-Trichloroethane	71-55-6		U	250	62.5
1,1,2-Trichloroethane	79-00-5		U	250	62.5
Trichloroethene	79-01-6	22200		250	62.5
Trichlorofluoromethane	75-69-4		U	250	62.5
1,2,3-Trichloropropane	96-18-4		U	250	125
1,2,4-Trimethylbenzene	95-63-6		U	250	62.5
1,3,5-Trimethylbenzene	108-67-8		U	250	62.5
Vinyl acetate	108-05-4		U	2500	625
Vinyl chloride	75-01-4		U	250	62.5
o-Xylene	95-47-6		U	250	62.5
m-,p-Xylene	136777-61-2		U	250	125
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	109	86	118		
1,2-Dichloroethane-d4	111	80	120		
Toluene-d8	113	88	110	*	
4-Bromofluorobenzene	108	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086224

Sample Number: **L08040312-04**
 Client ID: **EXT4-040908**
 Matrix: **Water**
 Workgroup Number: **WG268835**
 Collect Date: **04/09/2008 08:45**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS/ASP**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 07:24**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 07:24**
 File ID: **8M344547**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	500	125
Benzene	71-43-2		U	50.0	6.25
Bromobenzene	108-86-1		U	50.0	6.25
Bromochloromethane	74-97-5		U	50.0	10.0
Bromodichloromethane	75-27-4		U	50.0	12.5
Bromoform	75-25-2		U	50.0	25.0
Bromomethane	74-83-9		U	50.0	25.0
2-Butanone	78-93-3		U	500	125
n-Butylbenzene	104-51-8		U	50.0	12.5
sec-Butylbenzene	135-98-8		U	50.0	12.5
tert-Butylbenzene	98-06-6		U	50.0	12.5
Carbon disulfide	75-15-0		U	50.0	25.0
Carbon tetrachloride	56-23-5		U	50.0	12.5
Chlorobenzene	108-90-7		U	50.0	6.25
Chlorodibromomethane	124-48-1		U	50.0	12.5
Chloroethane	75-00-3		U	50.0	25.0
2-Chloroethyl vinyl ether	110-75-8		U	500	100
Chloroform	67-66-3	10.4	J	50.0	6.25
Chloromethane	74-87-3		U	50.0	12.5
2-Chlorotoluene	95-49-8		U	50.0	6.25
4-Chlorotoluene	106-43-4		U	50.0	12.5
1,2-Dibromo-3-chloropropane	96-12-8		U	250	50.0
1,2-Dibromoethane	106-93-4		U	50.0	12.5
Dibromomethane	74-95-3		U	50.0	12.5
1,2-Dichlorobenzene	95-50-1		U	50.0	6.25
1,3-Dichlorobenzene	541-73-1		U	50.0	12.5
1,4-Dichlorobenzene	106-46-7		U	50.0	6.25
Dichlorodifluoromethane	75-71-8		U	50.0	12.5
1,1-Dichloroethane	75-34-3		U	50.0	6.25
1,2-Dichloroethane	107-06-2	15.2	J	50.0	12.5
1,1-Dichloroethene	75-35-4	86.9		50.0	25.0
cis-1,2-Dichloroethene	156-59-2	6820		50.0	12.5
trans-1,2-Dichloroethene	156-60-5		U	50.0	12.5
1,2-Dichloropropane	78-87-5		U	50.0	10.0
1,3-Dichloropropane	142-28-9		U	50.0	10.0
2,2-Dichloropropane	594-20-7		U	50.0	12.5
cis-1,3-Dichloropropene	10061-01-5		U	50.0	12.5
trans-1,3-Dichloropropene	10061-02-6		U	50.0	25.0
1,1-Dichloropropene	563-58-6		U	50.0	12.5
Ethylbenzene	100-41-4		U	50.0	12.5
2-Hexanone	591-78-6		U	500	125
Hexachlorobutadiene	87-68-3		U	50.0	12.5
Isopropylbenzene	98-82-8		U	50.0	12.5
p-Isopropyltoluene	99-87-6		U	50.0	12.5
4-Methyl-2-pentanone	108-10-1		U	500	125
Methylene chloride	75-09-2		U	250	12.5
Naphthalene	91-20-3		U	50.0	10.0
n-Propylbenzene	103-65-1		U	50.0	6.25

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Sample Number: **L08040312-04**
 Client ID: **EXT4-040908**
 Matrix: **Water**
 Workgroup Number: **WG268835**
 Collect Date: **04/09/2008 08:45**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS/ASP**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 07:24**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 07:24**
 File ID: **8M344547**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	50.0	6.25
1,1,1,2-Tetrachloroethane	630-20-6		U	50.0	12.5
1,1,2,2-Tetrachloroethane	79-34-5		U	50.0	6.25
Tetrachloroethene	127-18-4		U	50.0	12.5
Toluene	108-88-3		U	50.0	12.5
1,2,3-Trichlorobenzene	87-61-6		U	50.0	7.50
1,2,4-Trichlorobenzene	120-82-1		U	50.0	10.0
1,1,1-Trichloroethane	71-55-6		U	50.0	12.5
1,1,2-Trichloroethane	79-00-5		U	50.0	12.5
Trichloroethene	79-01-6	34400	I	50.0	12.5
Trichlorofluoromethane	75-69-4		U	50.0	12.5
1,2,3-Trichloropropane	96-18-4		U	50.0	25.0
1,2,4-Trimethylbenzene	95-63-6		U	50.0	12.5
1,3,5-Trimethylbenzene	108-67-8		U	50.0	12.5
Vinyl acetate	108-05-4		U	500	125
Vinyl chloride	75-01-4	75.7	Q	50.0	12.5
o-Xylene	95-47-6		U	50.0	12.5
m-,p-Xylene	136777-61-2		U	50.0	25.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	105	86	118		
1,2-Dichloroethane-d4	105	80	120		
Toluene-d8	114	88	110	*	
4-Bromofluorobenzene	97.8	86	115		

Q One or more quality control criteria fail. See narrative.

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

I Semiquantitative result (out of instrument calibration range)

Sample Number: L08040312-04
 Client ID: EXT4-040908
 Matrix: Water
 Workgroup Number: WG268849
 Collect Date: 04/09/2008 08:45
 Sample Tag: DL02

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 500
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 16:30
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 16:30
 File ID: 8M344564

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	5000	1250
Benzene	71-43-2		U	500	62.5
Bromobenzene	108-86-1		U	500	62.5
Bromochloromethane	74-97-5		U	500	100
Bromodichloromethane	75-27-4		U	500	125
Bromoform	75-25-2		U	500	250
Bromomethane	74-83-9		U	500	250
2-Butanone	78-93-3		U	5000	1250
n-Butylbenzene	104-51-8		U	500	125
sec-Butylbenzene	135-98-8		U	500	125
tert-Butylbenzene	98-06-6		U	500	125
Carbon disulfide	75-15-0		U	500	250
Carbon tetrachloride	56-23-5		U	500	125
Chlorobenzene	108-90-7		U	500	62.5
Chlorodibromomethane	124-48-1		U	500	125
Chloroethane	75-00-3		U	500	250
2-Chloroethyl vinyl ether	110-75-8		U	5000	1000
Chloroform	67-66-3		U	500	62.5
Chloromethane	74-87-3		U	500	125
2-Chlorotoluene	95-49-8		U	500	62.5
4-Chlorotoluene	106-43-4		U	500	125
1,2-Dibromo-3-chloropropane	96-12-8		U	2500	500
1,2-Dibromoethane	106-93-4		U	500	125
Dibromomethane	74-95-3		U	500	125
1,2-Dichlorobenzene	95-50-1		U	500	62.5
1,3-Dichlorobenzene	541-73-1		U	500	125
1,4-Dichlorobenzene	106-46-7		U	500	62.5
Dichlorodifluoromethane	75-71-8		U	500	125
1,1-Dichloroethane	75-34-3		U	500	62.5
1,2-Dichloroethane	107-06-2		U	500	125
1,1-Dichloroethene	75-35-4		U	500	250
cis-1,2-Dichloroethene	156-59-2	7610		500	125
trans-1,2-Dichloroethene	156-60-5		U	500	125
1,2-Dichloropropane	78-87-5		U	500	100
1,3-Dichloropropane	142-28-9		U	500	100
2,2-Dichloropropane	594-20-7		U	500	125
cis-1,3-Dichloropropene	10061-01-5		U	500	125
trans-1,3-Dichloropropene	10061-02-6		U	500	250
1,1-Dichloropropene	563-58-6		U	500	125
Ethylbenzene	100-41-4		U	500	125
2-Hexanone	591-78-6		U	5000	1250
Hexachlorobutadiene	87-68-3		U	500	125
Isopropylbenzene	98-82-8		U	500	125
p-Isopropyltoluene	99-87-6		U	500	125
4-Methyl-2-pentanone	108-10-1		U	5000	1250
Methylene chloride	75-09-2	139	J	2500	125
Naphthalene	91-20-3		U	500	100
n-Propylbenzene	103-65-1		U	500	62.5

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Sample Number: **L08040312-04**
 Client ID: **EXT4-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:45**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **500**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 16:30**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 16:30**
 File ID: **8M344564**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	500	62.5
1,1,1,2-Tetrachloroethane	630-20-6		U	500	125
1,1,2,2-Tetrachloroethane	79-34-5		U	500	62.5
Tetrachloroethene	127-18-4		U	500	125
Toluene	108-88-3		U	500	125
1,2,3-Trichlorobenzene	87-61-6		U	500	75.0
1,2,4-Trichlorobenzene	120-82-1		U	500	100
1,1,1-Trichloroethane	71-55-6		U	500	125
1,1,2-Trichloroethane	79-00-5		U	500	125
Trichloroethene	79-01-6	53300		500	125
Trichlorofluoromethane	75-69-4		U	500	125
1,2,3-Trichloropropane	96-18-4		U	500	250
1,2,4-Trimethylbenzene	95-63-6		U	500	125
1,3,5-Trimethylbenzene	108-67-8		U	500	125
Vinyl acetate	108-05-4		U	5000	1250
Vinyl chloride	75-01-4		U	500	125
o-Xylene	95-47-6		U	500	125
m-,p-Xylene	136777-61-2		U	500	250
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	111	86	118		
1,2-Dichloroethane-d4	113	80	120		
Toluene-d8	113	88	110	*	
4-Bromofluorobenzene	106	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: L08040312-05
 Client ID: EXT5-040908
 Matrix: Water
 Workgroup Number: WG268849
 Collect Date: 04/09/2008 08:05
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 2.5
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 17:02
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 17:02
 File ID: 8M344565

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	25.0	6.25
Benzene	71-43-2		U	2.50	0.313
Bromobenzene	108-86-1		U	2.50	0.313
Bromochloromethane	74-97-5		U	2.50	0.500
Bromodichloromethane	75-27-4		U	2.50	0.625
Bromoform	75-25-2		U	2.50	1.25
Bromomethane	74-83-9		U	2.50	1.25
2-Butanone	78-93-3		U	25.0	6.25
n-Butylbenzene	104-51-8		U	2.50	0.625
sec-Butylbenzene	135-98-8		U	2.50	0.625
tert-Butylbenzene	98-06-6		U	2.50	0.625
Carbon disulfide	75-15-0		U	2.50	1.25
Carbon tetrachloride	56-23-5		U	2.50	0.625
Chlorobenzene	108-90-7		U	2.50	0.313
Chlorodibromomethane	124-48-1		U	2.50	0.625
Chloroethane	75-00-3		U	2.50	1.25
2-Chloroethyl vinyl ether	110-75-8		U	25.0	5.00
Chloroform	67-66-3		U	2.50	0.313
Chloromethane	74-87-3		U	2.50	0.625
2-Chlorotoluene	95-49-8		U	2.50	0.313
4-Chlorotoluene	106-43-4		U	2.50	0.625
1,2-Dibromo-3-chloropropane	96-12-8		U	12.5	2.50
1,2-Dibromoethane	106-93-4		U	2.50	0.625
Dibromomethane	74-95-3		U	2.50	0.625
1,2-Dichlorobenzene	95-50-1		U	2.50	0.313
1,3-Dichlorobenzene	541-73-1		U	2.50	0.625
1,4-Dichlorobenzene	106-46-7		U	2.50	0.313
Dichlorodifluoromethane	75-71-8		U	2.50	0.625
1,1-Dichloroethane	75-34-3		U	2.50	0.313
1,2-Dichloroethane	107-06-2	1.92	J	2.50	0.625
1,1-Dichloroethene	75-35-4	2.56		2.50	1.25
cis-1,2-Dichloroethene	156-59-2	53.7		2.50	0.625
trans-1,2-Dichloroethene	156-60-5		U	2.50	0.625
1,2-Dichloropropane	78-87-5		U	2.50	0.500
1,3-Dichloropropane	142-28-9		U	2.50	0.500
2,2-Dichloropropane	594-20-7		U	2.50	0.625
cis-1,3-Dichloropropene	10061-01-5		U	2.50	0.625
trans-1,3-Dichloropropene	10061-02-6		U	2.50	1.25
1,1-Dichloropropene	563-58-6		U	2.50	0.625
Ethylbenzene	100-41-4		U	2.50	0.625
2-Hexanone	591-78-6		U	25.0	6.25
Hexachlorobutadiene	87-68-3		U	2.50	0.625
Isopropylbenzene	98-82-8		U	2.50	0.625
p-Isopropyltoluene	99-87-6		U	2.50	0.625
4-Methyl-2-pentanone	108-10-1		U	25.0	6.25
Methylene chloride	75-09-2		U	12.5	0.625
Naphthalene	91-20-3		U	2.50	0.500
n-Propylbenzene	103-65-1		U	2.50	0.313

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Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086229

Sample Number: **L08040312-05**
 Client ID: **EXT5-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:05**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **2.5**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 17:02**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 17:02**
 File ID: **8M344565**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	2.50	0.313
1,1,1,2-Tetrachloroethane	630-20-6		U	2.50	0.625
1,1,2,2-Tetrachloroethane	79-34-5		U	2.50	0.313
Tetrachloroethene	127-18-4		U	2.50	0.625
Toluene	108-88-3		U	2.50	0.625
1,2,3-Trichlorobenzene	87-61-6		U	2.50	0.375
1,2,4-Trichlorobenzene	120-82-1		U	2.50	0.500
1,1,1-Trichloroethane	71-55-6		U	2.50	0.625
1,1,2-Trichloroethane	79-00-5		U	2.50	0.625
Trichloroethene	79-01-6	425		2.50	0.625
Trichlorofluoromethane	75-69-4		U	2.50	0.625
1,2,3-Trichloropropane	96-18-4		U	2.50	1.25
1,2,4-Trimethylbenzene	95-63-6		U	2.50	0.625
1,3,5-Trimethylbenzene	108-67-8		U	2.50	0.625
Vinyl acetate	108-05-4		U	25.0	6.25
Vinyl chloride	75-01-4		U	2.50	0.625
o-Xylene	95-47-6		U	2.50	0.625
m-,p-Xylene	136777-61-2		U	2.50	1.25
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	110	86	118		
1,2-Dichloroethane-d4	112	80	120		
Toluene-d8	111	88	110	*	
4-Bromofluorobenzene	106	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086230

Sample Number: **L08040312-06**
 Client ID: **EXT6-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:20**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **20**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 17:35**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 17:35**
 File ID: **8M344566**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	200	50.0
Benzene	71-43-2		U	20.0	2.50
Bromobenzene	108-86-1		U	20.0	2.50
Bromochloromethane	74-97-5		U	20.0	4.00
Bromodichloromethane	75-27-4		U	20.0	5.00
Bromoform	75-25-2		U	20.0	10.0
Bromomethane	74-83-9		U	20.0	10.0
2-Butanone	78-93-3		U	200	50.0
n-Butylbenzene	104-51-8		U	20.0	5.00
sec-Butylbenzene	135-98-8		U	20.0	5.00
tert-Butylbenzene	98-06-6		U	20.0	5.00
Carbon disulfide	75-15-0		U	20.0	10.0
Carbon tetrachloride	56-23-5		U	20.0	5.00
Chlorobenzene	108-90-7		U	20.0	2.50
Chlorodibromomethane	124-48-1		U	20.0	5.00
Chloroethane	75-00-3		U	20.0	10.0
2-Chloroethyl vinyl ether	110-75-8		U	200	40.0
Chloroform	67-66-3		U	20.0	2.50
Chloromethane	74-87-3		U	20.0	5.00
2-Chlorotoluene	95-49-8		U	20.0	2.50
4-Chlorotoluene	106-43-4		U	20.0	5.00
1,2-Dibromo-3-chloropropane	96-12-8		U	100	20.0
1,2-Dibromoethane	106-93-4		U	20.0	5.00
Dibromomethane	74-95-3		U	20.0	5.00
1,2-Dichlorobenzene	95-50-1		U	20.0	2.50
1,3-Dichlorobenzene	541-73-1		U	20.0	5.00
1,4-Dichlorobenzene	106-46-7		U	20.0	2.50
Dichlorodifluoromethane	75-71-8		U	20.0	5.00
1,1-Dichloroethane	75-34-3		U	20.0	2.50
1,2-Dichloroethane	107-06-2		U	20.0	5.00
1,1-Dichloroethene	75-35-4	17.8	J	20.0	10.0
cis-1,2-Dichloroethene	156-59-2	480		20.0	5.00
trans-1,2-Dichloroethene	156-60-5		U	20.0	5.00
1,2-Dichloropropane	78-87-5		U	20.0	4.00
1,3-Dichloropropane	142-28-9		U	20.0	4.00
2,2-Dichloropropane	594-20-7		U	20.0	5.00
cis-1,3-Dichloropropene	10061-01-5		U	20.0	5.00
trans-1,3-Dichloropropene	10061-02-6		U	20.0	10.0
1,1-Dichloropropene	563-58-6		U	20.0	5.00
Ethylbenzene	100-41-4		U	20.0	5.00
2-Hexanone	591-78-6		U	200	50.0
Hexachlorobutadiene	87-68-3		U	20.0	5.00
Isopropylbenzene	98-82-8		U	20.0	5.00
p-Isopropyltoluene	99-87-6		U	20.0	5.00
4-Methyl-2-pentanone	108-10-1		U	200	50.0
Methylene chloride	75-09-2	5.27	J	100	5.00
Naphthalene	91-20-3		U	20.0	4.00
n-Propylbenzene	103-65-1		U	20.0	2.50

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Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086231

Sample Number: **L08040312-06**
 Client ID: **EXT6-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:20**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **20**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 17:35**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 17:35**
 File ID: **8M344566**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	20.0	2.50
1,1,1,2-Tetrachloroethane	630-20-6		U	20.0	5.00
1,1,2,2-Tetrachloroethane	79-34-5		U	20.0	2.50
Tetrachloroethene	127-18-4		U	20.0	5.00
Toluene	108-88-3		U	20.0	5.00
1,2,3-Trichlorobenzene	87-61-6		U	20.0	3.00
1,2,4-Trichlorobenzene	120-82-1		U	20.0	4.00
1,1,1-Trichloroethane	71-55-6		U	20.0	5.00
1,1,2-Trichloroethane	79-00-5		U	20.0	5.00
Trichloroethene	79-01-6	3080		20.0	5.00
Trichlorofluoromethane	75-69-4		U	20.0	5.00
1,2,3-Trichloropropane	96-18-4		U	20.0	10.0
1,2,4-Trimethylbenzene	95-63-6		U	20.0	5.00
1,3,5-Trimethylbenzene	108-67-8		U	20.0	5.00
Vinyl acetate	108-05-4		U	200	50.0
Vinyl chloride	75-01-4	25.4	Q	20.0	5.00
o-Xylene	95-47-6		U	20.0	5.00
m-,p-Xylene	136777-61-2		U	20.0	10.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	109	86	118		
1,2-Dichloroethane-d4	112	80	120		
Toluene-d8	112	88	110	*	
4-Bromofluorobenzene	106	86	115		

Q One or more quality control criteria fail. See narrative.

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: L08040312-07
 Client ID: EXT7-040908
 Matrix: Water
 Workgroup Number: WG268849
 Collect Date: 04/09/2008 08:35
 Sample Tag: 01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 1
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 18:07
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 18:07
 File ID: 8M344567

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	4.44		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125

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Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086233

Sample Number: **L08040312-07**
 Client ID: **EXT7-040908**
 Matrix: **Water**
 Workgroup Number: **WG268849**
 Collect Date: **04/09/2008 08:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 18:07**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 18:07**
 File ID: **8M344567**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	58.1		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	112	86	118		
1,2-Dichloroethane-d4	115	80	120		
Toluene-d8	111	88	110	*	
4-Bromofluorobenzene	96.7	86	115		

U Not detected at or above adjusted sample detection limit

* Surrogate or spike compound out of range

Sample Number: L08040312-08
 Client ID: EXT8-040908
 Matrix: Water
 Workgroup Number: WG268935
 Collect Date: 04/09/2008 08:50
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 5
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/21/2008 13:28
 Cal Date: 04/02/2008 18:28
 Run Date: 04/21/2008 13:28
 File ID: 8M344616

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	50.0	12.5
Benzene	71-43-2		U	5.00	0.625
Bromobenzene	108-86-1		U	5.00	0.625
Bromochloromethane	74-97-5		U	5.00	1.00
Bromodichloromethane	75-27-4		U	5.00	1.25
Bromoform	75-25-2		U	5.00	2.50
Bromomethane	74-83-9		U	5.00	2.50
2-Butanone	78-93-3		U	50.0	12.5
n-Butylbenzene	104-51-8		U	5.00	1.25
sec-Butylbenzene	135-98-8		U	5.00	1.25
tert-Butylbenzene	98-06-6		U	5.00	1.25
Carbon disulfide	75-15-0		U	5.00	2.50
Carbon tetrachloride	56-23-5		U	5.00	1.25
Chlorobenzene	108-90-7		U	5.00	0.625
Chlorodibromomethane	124-48-1		U	5.00	1.25
Chloroethane	75-00-3		U	5.00	2.50
2-Chloroethyl vinyl ether	110-75-8		U	50.0	10.0
Chloroform	67-66-3		U	5.00	0.625
Chloromethane	74-87-3		U	5.00	1.25
2-Chlorotoluene	95-49-8		U	5.00	0.625
4-Chlorotoluene	106-43-4		U	5.00	1.25
1,2-Dibromo-3-chloropropane	96-12-8		U	25.0	5.00
1,2-Dibromoethane	106-93-4		U	5.00	1.25
Dibromomethane	74-95-3		U	5.00	1.25
1,2-Dichlorobenzene	95-50-1		U	5.00	0.625
1,3-Dichlorobenzene	541-73-1		U	5.00	1.25
1,4-Dichlorobenzene	106-46-7		U	5.00	0.625
Dichlorodifluoromethane	75-71-8		U	5.00	1.25
1,1-Dichloroethane	75-34-3		U	5.00	0.625
1,2-Dichloroethane	107-06-2	4.24	J	5.00	1.25
1,1-Dichloroethene	75-35-4	4.34	J	5.00	2.50
cis-1,2-Dichloroethene	156-59-2	339		5.00	1.25
trans-1,2-Dichloroethene	156-60-5		U	5.00	1.25
1,2-Dichloropropane	78-87-5		U	5.00	1.00
1,3-Dichloropropane	142-28-9		U	5.00	1.00
2,2-Dichloropropane	594-20-7		U	5.00	1.25
cis-1,3-Dichloropropene	10061-01-5		U	5.00	1.25
trans-1,3-Dichloropropene	10061-02-6		U	5.00	2.50
1,1-Dichloropropene	563-58-6		U	5.00	1.25
Ethylbenzene	100-41-4		U	5.00	1.25
2-Hexanone	591-78-6		U	50.0	12.5
Hexachlorobutadiene	87-68-3		U	5.00	1.25
Isopropylbenzene	98-82-8		U	5.00	1.25
p-Isopropyltoluene	99-87-6		U	5.00	1.25
4-Methyl-2-pentanone	108-10-1		U	50.0	12.5
Methylene chloride	75-09-2		U	25.0	1.25
Naphthalene	91-20-3		U	5.00	1.00
n-Propylbenzene	103-65-1		U	5.00	0.625

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Sample Number: **L08040312-08**
 Client ID: **EXT8-040908**
 Matrix: **Water**
 Workgroup Number: **WG268935**
 Collect Date: **04/09/2008 08:50**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **5**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/21/2008 13:28**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/21/2008 13:28**
 File ID: **8M344616**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	5.00	0.625
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	1.25
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.625
Tetrachloroethene	127-18-4		U	5.00	1.25
Toluene	108-88-3		U	5.00	1.25
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.750
1,2,4-Trichlorobenzene	120-82-1		U	5.00	1.00
1,1,1-Trichloroethane	71-55-6		U	5.00	1.25
1,1,2-Trichloroethane	79-00-5		U	5.00	1.25
Trichloroethene	79-01-6	639		5.00	1.25
Trichlorofluoromethane	75-69-4		U	5.00	1.25
1,2,3-Trichloropropane	96-18-4		U	5.00	2.50
1,2,4-Trimethylbenzene	95-63-6		U	5.00	1.25
1,3,5-Trimethylbenzene	108-67-8		U	5.00	1.25
Vinyl acetate	108-05-4		U	50.0	12.5
Vinyl chloride	75-01-4	6.92		5.00	1.25
o-Xylene	95-47-6		U	5.00	1.25
m-,p-Xylene	136777-61-2		U	5.00	2.50
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	109	86	118		
1,2-Dichloroethane-d4	111	80	120		
Toluene-d8	111	88	110	*	
4-Bromofluorobenzene	108	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086236

Sample Number: **L08040312-09**
 Client ID: **EXT8-040908-FD**
 Matrix: **Water**
 Workgroup Number: **WG268935**
 Collect Date: **04/09/2008 08:50**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS**
 Dilution: **5**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/21/2008 14:01**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/21/2008 14:01**
 File ID: **8M344617**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	50.0	12.5
Benzene	71-43-2		U	5.00	0.625
Bromobenzene	108-86-1		U	5.00	0.625
Bromochloromethane	74-97-5		U	5.00	1.00
Bromodichloromethane	75-27-4		U	5.00	1.25
Bromoform	75-25-2		U	5.00	2.50
Bromomethane	74-83-9		U	5.00	2.50
2-Butanone	78-93-3		U	50.0	12.5
n-Butylbenzene	104-51-8		U	5.00	1.25
sec-Butylbenzene	135-98-8		U	5.00	1.25
tert-Butylbenzene	98-06-6		U	5.00	1.25
Carbon disulfide	75-15-0		U	5.00	2.50
Carbon tetrachloride	56-23-5		U	5.00	1.25
Chlorobenzene	108-90-7		U	5.00	0.625
Chlorodibromomethane	124-48-1		U	5.00	1.25
Chloroethane	75-00-3		U	5.00	2.50
2-Chloroethyl vinyl ether	110-75-8		U	50.0	10.0
Chloroform	67-66-3		U	5.00	0.625
Chloromethane	74-87-3		U	5.00	1.25
2-Chlorotoluene	95-49-8		U	5.00	0.625
4-Chlorotoluene	106-43-4		U	5.00	1.25
1,2-Dibromo-3-chloropropane	96-12-8		U	25.0	5.00
1,2-Dibromoethane	106-93-4		U	5.00	1.25
Dibromomethane	74-95-3		U	5.00	1.25
1,2-Dichlorobenzene	95-50-1		U	5.00	0.625
1,3-Dichlorobenzene	541-73-1		U	5.00	1.25
1,4-Dichlorobenzene	106-46-7		U	5.00	0.625
Dichlorodifluoromethane	75-71-8		U	5.00	1.25
1,1-Dichloroethane	75-34-3		U	5.00	0.625
1,2-Dichloroethane	107-06-2	4.02	J	5.00	1.25
1,1-Dichloroethene	75-35-4	4.21	J	5.00	2.50
cis-1,2-Dichloroethene	156-59-2	320		5.00	1.25
trans-1,2-Dichloroethene	156-60-5		U	5.00	1.25
1,2-Dichloropropane	78-87-5		U	5.00	1.00
1,3-Dichloropropane	142-28-9		U	5.00	1.00
2,2-Dichloropropane	594-20-7		U	5.00	1.25
cis-1,3-Dichloropropene	10061-01-5		U	5.00	1.25
trans-1,3-Dichloropropene	10061-02-6		U	5.00	2.50
1,1-Dichloropropene	563-58-6		U	5.00	1.25
Ethylbenzene	100-41-4		U	5.00	1.25
2-Hexanone	591-78-6		U	50.0	12.5
Hexachlorobutadiene	87-68-3		U	5.00	1.25
Isopropylbenzene	98-82-8		U	5.00	1.25
p-Isopropyltoluene	99-87-6		U	5.00	1.25
4-Methyl-2-pentanone	108-10-1		U	50.0	12.5
Methylene chloride	75-09-2		U	25.0	1.25
Naphthalene	91-20-3		U	5.00	1.00
n-Propylbenzene	103-65-1		U	5.00	0.625

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Sample Number: L08040312-09
 Client ID: EXT8-040908-FD
 Matrix: Water
 Workgroup Number: WG268935
 Collect Date: 04/09/2008 08:50
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS
 Dilution: 5
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/21/2008 14:01
 Cal Date: 04/02/2008 18:28
 Run Date: 04/21/2008 14:01
 File ID: 8M344617

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	5.00	0.625
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	1.25
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.625
Tetrachloroethene	127-18-4		U	5.00	1.25
Toluene	108-88-3		U	5.00	1.25
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.750
1,2,4-Trichlorobenzene	120-82-1		U	5.00	1.00
1,1,1-Trichloroethane	71-55-6		U	5.00	1.25
1,1,2-Trichloroethane	79-00-5		U	5.00	1.25
Trichloroethene	79-01-6	615		5.00	1.25
Trichlorofluoromethane	75-69-4		U	5.00	1.25
1,2,3-Trichloropropane	96-18-4		U	5.00	2.50
1,2,4-Trimethylbenzene	95-63-6		U	5.00	1.25
1,3,5-Trimethylbenzene	108-67-8		U	5.00	1.25
Vinyl acetate	108-05-4		U	50.0	12.5
Vinyl chloride	75-01-4	6.14		5.00	1.25
o-Xylene	95-47-6		U	5.00	1.25
m-,p-Xylene	136777-61-2		U	5.00	2.50
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	110	86	118		
1,2-Dichloroethane-d4	108	80	120		
Toluene-d8	111	88	110	*	
4-Bromofluorobenzene	106	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: L08040312-10
 Client ID: TRIP BLANK
 Matrix: Water
 Workgroup Number: WG268835
 Collect Date: 04/09/2008 00:01
 Sample Tag: 01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CMS/ASP
 Dilution: 1
 Units: ug/L

Instrument: HPMS8
 Prep Date: 04/19/2008 00:57
 Cal Date: 04/02/2008 18:28
 Run Date: 04/19/2008 00:57
 File ID: 8M344535

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	8.04	J	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.363	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125

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Report Number: **L08040312**
 Report Date : **April 24, 2008**

00086239

Sample Number: **L08040312-10**
 Client ID: **TRIP BLANK**
 Matrix: **Water**
 Workgroup Number: **WG268835**
 Collect Date: **04/09/2008 00:01**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CMS/ASP**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **04/19/2008 00:57**
 Cal Date: **04/02/2008 18:28**
 Run Date: **04/19/2008 00:57**
 File ID: **8M344535**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	107	86	118		
1,2-Dichloroethane-d4	103	80	120		
Toluene-d8	112	88	110	*	
4-Bromofluorobenzene	107	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = [(Ax) (Cis)] / [(Ais) (Cx)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100

RF = Calculated Response Factor **1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

$$Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Vs = Purge volume of sample (mL)	10
Vn = Nominal purge volume of sample (mL) (10.0 mL)	10
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

$$Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Ws = Weight of sample purged (g)	5
Wn = Nominal purge weight (g) (5.0 g)	5
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	254.4856

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, $y = mx + b$

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

$$y = 86550/593147 = 0.1459$$

Step 3: Solve for x

$$x = (y - b)/m = [(0.1459 - (-0.00642))/0.213] = 0.7152$$

Step 4: Solve for analyte concentration Cx

$$Cx = Cis (x) = (25.0)(0.7152) = 17.88$$

Example Spreadsheet Calculation:

Slope from curve, m:	0.213
Intercept from curve, b:	-0.00642
Area of analyte, Ax:	86550
Area of Internal Standard, Ais:	593147
Concentration of IS, Cis	25.00
Response Ratio:	0.145917
Amount Ratio:	0.715195
Concentration:	17.87988
Units of Internal Standard:	ug/L

5.0 Concentration from Quadratic Regression**Step 1 - Retrieve Curve Data from Plot, $y = Ax^2 + Bx + C$**

Where:

$$Ax^2 + Bx + (C - y) = 0$$

A, B, C = constants from the ICAL quadratic regression

y = Response ratio = Area of analyte/Area of internal standard (IS)

x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

$$y = Ax/Ais$$

Step 3: Solve for x using the quadratic formula

$$Ax^2 + Bx + C - y = 0$$

$$x = \frac{b \pm \sqrt{(b^2 - 4a(c - y))}}{2a} \quad (\text{Two possible solutions})$$

Step 4: Solve for analyte concentration Cx

$$Cx = (Cis)(\text{Amount ratio})$$

Example Spreadsheet Calculation:

Value of A from plot:	-0.00629
Value of B from plot:	0.511
Value of C from plot:	-0.0276
Area of unknown from quantitation report:	293821
Area of IS from quantitation report:	784848
Response ratio, y:	0.374367
C - y:	-0.40197
Root 1 - Computed amount ratio, X1:	80.44567
Root 2 - Computed amount ratio, X2:	0.794396 use this solution
Concentration of IS, Cis:	25.00
Concentration of analyte, Cx:	19.86 ug/L

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 040208
 Analyst1: CMS Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 10
 Method: 624 SOP: MSV10 Rev: 9
 Method: 5030B SOP: PAT01 Rev: 10
 Maintenance Log ID: 23540

Internal Standard: STD25500 Surrogate Standard: STD25501
 CCV: STD25474 LCS: STD25469 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG267167

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M344055	SOIL STD CHK	NA	1	1		04/02/08 09:16
2	8M344057	STD CHK NEW MOUNT	NA	1	1		04/02/08 11:10
3	8M344058	C/O CHK NEW MOUNT	NA	1	1		04/02/08 11:43
4	8M344060	WG267167-01 BFB 50ng STD 8260	NA	1	1	STD25005	04/02/08 12:38
5	8M344061	SYSTEM BLANK	NA	1	1		04/02/08 13:06
6	8M344062	WG267167-02 0.30ug/L STD 8260	NA	1	1	STD25474	04/02/08 13:38
7	8M344063	WG267167-03 0.40ug/L STD 8260	NA	1	1	STD25474	04/02/08 14:10
8	8M344064	WG267167-04 1ug/L STD 8260	NA	1	1	STD25474	04/02/08 14:42
9	8M344065	WG267167-00 2ug/L STD 8260	NA	1	1	STD25474	04/02/08 15:14
10	8M344066	WG267167-05 5ug/L STD 8260	NA	1	1	STD25474	04/02/08 15:47
11	8M344067	WG267167-06 20ug/L STD 8260	NA	1	1	STD25474	04/02/08 16:19
12	8M344068	WG267167-07 50ug/L STD 8260	NA	1	1	STD25474	04/02/08 16:51
13	8M344069	WG267167-08 100ug/L STD 8260	NA	1	1	STD25474	04/02/08 17:23
14	8M344070	WG267167-09 200ug/L STD 8260	NA	1	1	STD25474	04/02/08 17:56
15	8M344071	WG267167-10 300ug/L STD 8260	NA	1	1	STD25474	04/02/08 18:28
16	8M344072	SYSTEM BLANK	NA	1	1		04/02/08 19:00
17	8M344073	SYSTEM BLANK	NA	1	1		04/02/08 19:32
18	8M344074	WG267167-11 20ug/L ALT SRC STD 8260	NA	1	1	STD25469	04/02/08 20:05
19	8M344075	SYSTEM BLANK	NA	1	1		04/02/08 20:37

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9				
File ID: 8M344065				
DNR-NOT NEEDED				

Approved: April 04, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 041808
 Analyst1: CMS Analyst2: ASP
 Method: 8260B SOP: MSV01 Rev: 10
 Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 23818

Internal Standard: STD25657 Surrogate Standard: STD25755
 CCV: STD25664 LCS: STD25665 MS/MSD: STD25665
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG268703;WG268835

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M344504	WG268702-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/18/08 08:40
2	8M344505	WG268702-02 50ug/L STD 8260	NA	1	1	STD25664	04/18/08 09:09
3	8M344506	WG268703-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 09:42
4	8M344507	WG268703-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 10:14
5	8M344508	WG268703-02 20ug/L LCS STD 8260	NA	1	1	STD25665	04/18/08 10:46
6	8M344509	L08040213-03 P 10X 826-TC	NA	17	10		04/18/08 11:19
7	8M344510	L08040242-11 A 826-LOW	<2	1	1		04/18/08 11:51
8	8M344511	L08040242-13 A 826-LOW	<2	1	1		04/18/08 12:23
9	8M344512	L08040286-03 A 826-LOW	<2	1	1		04/18/08 12:56
10	8M344513	L08040286-05 A 826-LOW	<2	1	1		04/18/08 13:28
11	8M344514	L08040286-07 A 826-LOW	<2	1	1		04/18/08 14:00
12	8M344515	L08040286-09 MS A 826-LOW	<2	1	1	STD25665	04/18/08 14:33
13	8M344516	L08040286-11 MSD A 826-LOW	<2	1	1	STD25665	04/18/08 15:06
14	8M344517	L08040286-13 A 826-LOW	<2	1	1		04/18/08 15:38
15	8M344518	L08040286-15 A 826-LOW	<2	1	1		04/18/08 16:11
16	8M344519	L08040286-17 A 826-LOW	<2	1	1		04/18/08 16:43
17	8M344520	WG268703-06 QCMRL CHECK	NA	1	1	STD25664	04/18/08 17:15
18	8M344521	L08040257-01 A 826-SPE	<2	1	1		04/18/08 17:48
19	8M344522	L08040257-02 A 826-SPE	<2	1	1		04/18/08 18:20
20	8M344523	L08040257-03 A 826-SPE	<2	1	1		04/18/08 18:53
21	8M344524	system check	<2	1	1		04/18/08 19:25
22	8M344526	WG268834-01 50ng BFB STD 8260	NA	1	1	STD25539	04/18/08 20:48
23	8M344527	WG268834-01 50ng BFB STD 8260	NA	1	1	STD25539	04/18/08 21:02
24	8M344528	WG268834-01 50ng BFB STD 8260	NA	1	1	STD25539	04/18/08 21:18
25	8M344529	WG268834-02 50ug/L STD 8260	NA	1	1	STD25664	04/18/08 21:43
26	8M344530	WG268835-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 22:16
27	8M344531	WG268835-01 VBLK0418 BLANK 8260	NA	1	1		04/18/08 22:49
28	8M344532	WG268835-02 20ug/L LCS 8260	NA	1	1	STD25665	04/18/08 23:21
29	8M344533	WG268835-03 20ug/L LCSD 8260	NA	1	1	STD25665	04/18/08 23:53
30	8M344534	L08040285-01 A 826-SPE	<2	1	1		04/19/08 00:25
31	8M344535	L08040312-10 A 826-SPE	<2	1	1		04/19/08 00:57
32	8M344536	L08040285-02 A 826-SPE	<2	1	1		04/19/08 01:30
33	8M344537	L08040285-03 A 826-SPE	<2	1	1		04/19/08 02:02
34	8M344538	L08040285-04 A 826-SPE	<2	1	1		04/19/08 02:34

Approved: April 23, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 041808
 Analyst1: CMS Analyst2: ASP
 Method: 8260B SOP: MSV01 Rev: 10
 Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 23818

Internal Standard: STD25657 Surrogate Standard: STD25755
 CCV: STD25664 LCS: STD25665 MS/MSD: STD25665
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG268703;WG268835

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	8M344539	L08040285-05 A 826-SPE	<2	1	1		04/19/08 03:06
36	8M344540	L08040274-10 A 826-SPE	<2	1	1		04/19/08 03:38
37	8M344541	L08040274-11 A 826-SPE	<2	1	1		04/19/08 04:11
38	8M344542	L08040257-04 A 826-SPE	<2	1	1		04/19/08 04:43
39	8M344543	L08040257-08 A 826-SPE	<2	1	1		04/19/08 05:15
40	8M344544	L08040312-01 A 826-SPE 50X	<2	1	50		04/19/08 05:47
41	8M344545	L08040312-02 A 826-SPE 50X	<2	1	50		04/19/08 06:19
42	8M344546	L08040312-03 A 826-SPE 50X	<2	1	50		04/19/08 06:52
43	8M344547	L08040312-04 A 826-SPE 50X	<2	1	50		04/19/08 07:24
44	8M344548	L08040312-05 A 826-SPE 50X	<2	1	50		04/19/08 07:56
45	8M344549	L08040312-06 A 826-SPE 50X	<2	1	50		04/19/08 08:28
46	8M344550	L08040312-07 A 826-SPE 50X	<2	1	50		04/19/08 09:00
47	8M344551	RINSE	NA	1	1		04/19/08 09:33
48	8M344552	SYSTEM CHECK	NA	1	1		04/19/08 10:05

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Carry-over contamination	
File ID: 8M344506				
			DNR	
22	X			
File ID: 8M344526				
			Tune failed/DNR	
23	X			
File ID: 8M344527				
			Tune failed/DNR-Replaced septa	
26	X		Carry-over contamination	
File ID: 8M344530				
			DNR	
33	X	20	Over Calibration Range	Ben., EB, m+p-Xyl., 1,2,4-TMB
File ID: 8M344537				
34	X		Carry-over contamination	
File ID: 8M344538				
			DNR	

Approved: April 23, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 041808
 Analyst1: CMS Analyst2: ASP
 Method: 8260B SOP: MSV01 Rev: 10
 Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 23818

Internal Standard: STD25657 Surrogate Standard: STD25755
 CCV: STD25664 LCS: STD25665 MS/MSD: STD25665
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG268703;WG268835

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
40	X	200	Over Calibration Range	TCE
File ID: 8M344544				
41	X	500	Over Calibration Range	cis-1,2-DCE, TCE
File ID: 8M344545				
42	X	250	Over Calibration Range	TCE
File ID: 8M344546				
43	X	500	Over Calibration Range	TCE
File ID: 8M344547				
44	X	2.5	Analyzed too dilute	
File ID: 8M344548				
DNR				
45	X	20	Analyzed too dilute	
File ID: 8M344549				
DNR				
46	X	1	Analyzed too dilute	
File ID: 8M344550				
DNR				

Approved: April 23, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 041908
 Analyst1: CMS Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 10
 Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 23817

Internal Standard: STD25657 Surrogate Standard: STD25755
 CCV: STD25664 LCS: STD25665 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG268849

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M344553	WG268848-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/19/08 10:39
2	8M344554	WG268848-02 50ug/L STD 8260	NA	1	1	STD25664	04/19/08 11:07
3	8M344555	WG268849-01 VBLK0419 BLANK 8260	NA	1	1		04/19/08 11:40
4	8M344556	WG268849-01 VBLK0419 BLANK 8260	NA	1	1		04/19/08 12:12
5	8M344557	WG268849-02 20ug/L LCS STD 8260	NA	1	1	STD25665	04/19/08 12:44
6	8M344558	WG268849-03 20ug/L LCSDUP STD 8260	NA	1	1	STD25665	04/19/08 13:16
7	8M344559	L08040285-03 B 20X 826-SPE D1	<2	1	20		04/19/08 13:48
8	8M344560	L08040285-04 B 826-SPE	<2	1	1		04/19/08 14:21
9	8M344561	L08040312-01 B 200X 826-LOW D1	<2	1	200		04/19/08 14:53
10	8M344562	L08040312-02 B 500X 826-LOW D1	<2	1	500		04/19/08 15:25
11	8M344563	L08040312-03 B 250X 826-LOW D1	<2	1	250		04/19/08 15:58
12	8M344564	L08040312-04 B 500X 826-LOW D1	<2	1	500		04/19/08 16:30
13	8M344565	L08040312-05 B 2.5X 826-LOW	<2	1	2.5		04/19/08 17:02
14	8M344566	L08040312-06 B 20X 826-LOW	<2	1	20		04/19/08 17:35
15	8M344567	L08040312-07 B 826-LOW	<2	1	1		04/19/08 18:07
16	8M344568	L08040312-08 A 50X 826-LOW	<2	1	50		04/19/08 18:39
17	8M344569	L08040312-09 A 50X 826-LOW	<2	1	50		04/19/08 19:11
18	8M344570	L08040375-18 A 826-SPE	<2	1	1		04/19/08 19:44
19	8M344571	L08040285-07 A 826-SPE	<2	1	1		04/19/08 20:16
20	8M344572	L08040285-08 A 826-SPE	<2	1	1		04/19/08 20:48
21	8M344573	L08040285-06 A 826-SPE	<2	1	1		04/19/08 21:20
22	8M344574	L08040213-05 A 10X 826-TC	NA	17	10		04/19/08 21:52
23	8M344575	L08040213-06 A 10X 826-TC	NA	17	10		04/19/08 22:24
24	8M344576	SYSTEM BLANK	NA	1	1		04/19/08 22:56
25	8M344577	SYSTEM CHECK	NA	1	1		04/19/08 23:29

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Carry-over contamination	
File ID: 8M344555				
DNR				
16	X	5	Analyzed too dilute	
File ID: 8M344568				

Approved: April 23, 2008

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Maintenance Log ID: 23817

Comments:

Seq.	Run	Dil.	Reason	Analytes
17	X	5	Analyzed too dilute	
File ID: 8M344569				
18	X			
File ID: 8M344570				
19	X	10	Over Calibration Range	TCE
File ID: 8M344571				
20	X	10	Over Calibration Range	TCE
File ID: 8M344572				

Rich Carter



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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 042108
 Analyst1: CMS Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 10
 Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 23845

Internal Standard: STD25657 Surrogate Standard: STD25755
 CCV: STD25664 LCS: STD25665 MS/MSD: STD25665
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG268935

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M344606	WG268934-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/21/08 08:15
2	8M344607	WG268934-02 50ug/L STD 8260	NA	1	1	STD25664	04/21/08 08:41
3	8M344608	WG268934-02 50ug/L STD 8260	NA	1	1	STD25664	04/21/08 09:14
4	8M344609	SYSTEM CHECK	NA	1	1		04/21/08 09:47
5	8M344610	WG268934-01 BFB 50ng STD 8260	NA	1	1	STD25539	04/21/08 10:18
6	8M344611	WG268934-02 50ug/L STD 8260	NA	1	1	STD25664	04/21/08 10:46
7	8M344612	WG268935-01 VBLK0421 BLANK 8260	NA	1	1		04/21/08 11:19
8	8M344613	WG268935-02 20ug/L LCS STD 8260	NA	1	1	STD25665	04/21/08 11:51
9	8M344614	L08040285-07 B 10X 826-SPE D1	<2	1	10		04/21/08 12:24
10	8M344615	L08040285-08 B 10X 826-SPE D1	<2	1	10		04/21/08 12:56
11	8M344616	L08040312-08 B 5X 826-LOW	<2	1	5		04/21/08 13:28
12	8M344617	L08040312-09 B 5X 826-LOW	<2	1	5		04/21/08 14:01
13	8M344618	L08040410-04 A 826-SPE	<2	1	1		04/21/08 14:33
14	8M344619	L08040410-05 A 826-SPE	<2	1	1		04/21/08 15:05
15	8M344620	L08040289-01 B 8260	<2	1	1		04/21/08 15:38
16	8M344621	L08040289-02 MS B 8260	<2	1	1	STD25665	04/21/08 16:10
17	8M344622	L08040289-03 MSD B 8260	<2	1	1	STD25665	04/21/08 16:43
18	8M344623	L08040289-04 B 8260	<2	1	1		04/21/08 17:15
19	8M344624	L08040289-05 B 8260	<2	1	1		04/21/08 17:47
20	8M344625	L08040289-07 B 8260	<2	1	1		04/21/08 18:19
21	8M344626	L08040287-06 B 8260	<2	1	1		04/21/08 18:51
22	8M344627	L08040410-01 A 826-SPE	<2	1	1		04/21/08 19:24
23	8M344628	L08040410-02 A 826-SPE	<2	1	1		04/21/08 19:56
24	8M344629	L08040410-03 A 10X 826-SPE	<2	1	10		04/21/08 20:28
25	8M344630	L08040268-01 A 10X 826-TC	NA	17	10		04/21/08 21:00
26	8M344631	L08040268-02 A 10X 826-TC	NA	17	10		04/21/08 21:32
27	8M344632	L08040268-03 A 10X 826-TC	NA	17	10		04/21/08 22:05
28	8M344633	SYSTEM BLANK	NA	1	1		04/21/08 22:37
29	8M344634	SYSTEM CHECK	NA	1	1		04/21/08 23:09

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X		Check Standard Failure	

Approved:



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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 042108
 Analyst1: CMS Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 10
 Method: 5030B SOP: PAT01 Rev: 10

Maintenance Log ID: 23845

Internal Standard: STD25657 Surrogate Standard: STD25755
 CCV: STD25664 LCS: STD25665 MS/MSD: STD25665
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG268935

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 8M344607				
DNR				
3	X		Check Standard Failure	
File ID: 8M344608				
DNR				
24	X	5	Analyzed too dilute	
File ID: 8M344629				
DNR				

Approved:



Microbac Laboratories Inc.

Data Checklist

Date: 02 - APR - 2008
 Analyst: CMS
 Analyst: NA
 Method: 8260B/624
 Instrument: HPMS8
 Curve Workgroup: NA
 Runlog ID: 21455
 Analytical Workgroups: WG267167

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
04 - APR - 2008



Secondary Reviewer:
04 - APR - 2008




Microbac Laboratories Inc.

Data Checklist

Date: 18-APR-2008
 Analyst: CMS
 Analyst: ASP
 Method: 8260B
 Instrument: HPMS8
 Curve Workgroup: NA
 Runlog ID: 21774
 Analytical Workgroups: WG268703;WG268835

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-APR-2008



Secondary Reviewer:
23-APR-2008



Microbac Laboratories Inc.

Data Checklist

Date: 19-APR-2008
 Analyst: CMS
 Analyst: NA
 Method: 8260B
 Instrument: HPMS6
 Curve Workgroup: NA
 Runlog ID: 21779
 Analytical Workgroups: WG268849

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-APR-2008

Secondary Reviewer:
23-APR-2008

Microbac Laboratories Inc.

Data Checklist

Date: 21 - APR - 2008
 Analyst: CMS
 Analyst: NA
 Method: 8260B
 Instrument: HPMS8
 Curve Workgroup: NA
 Runlog ID: 21812
 Analytical Workgroups: WG268935

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CMS
Secondary Reviewer	
Check for compliance with method and project specific requirements	
Check the completeness of reported information	
Check the information for the report narrative	
Check the reasonableness of the results	

Primary Reviewer:
24 - APR - 2008



Secondary Reviewer:

Analytical Method: 8260B
Login Number: L08040312

AAB#: WG268849

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT5-040908	04/09/08	04/10/08	04/19/08	14	10.4	04/19/08	14	10.4	
EXT7-040908	04/09/08	04/10/08	04/19/08	14	10.4	04/19/08	14	10.4	
EXT1-040908	04/09/08	04/10/08	04/19/08	14	10.3	04/19/08	14	10.3	
EXT4-040908	04/09/08	04/10/08	04/19/08	14	10.3	04/19/08	14	10.3	
EXT2-040908	04/09/08	04/10/08	04/19/08	14	10.3	04/19/08	14	10.3	
EXT3-040908	04/09/08	04/10/08	04/19/08	14	10.3	04/19/08	14	10.3	
EXT6-040908	04/09/08	04/10/08	04/19/08	14	10.4	04/19/08	14	10.4	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B
Login Number: L08040312

AAB#: WG268835

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT3-040908	04/09/08	04/10/08	04/19/08	14	9.93	04/19/08	14	9.93	
EXT1-040908	04/09/08	04/10/08	04/19/08	14	9.91	04/19/08	14	9.91	
EXT4-040908	04/09/08	04/10/08	04/19/08	14	9.94	04/19/08	14	9.94	
EXT2-040908	04/09/08	04/10/08	04/19/08	14	9.92	04/19/08	14	9.92	
TRIP BLANK	04/09/08	04/10/08	04/19/08	14	10.0	04/19/08	14	10.0	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B
Login Number: L08040312

AAB#: WG268935

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT8-040908	04/09/08	04/10/08	04/21/08	14	12.2	04/21/08	14	12.2	
EXT8-040908-FD	04/09/08	04/10/08	04/21/08	14	12.2	04/21/08	14	12.2	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS



Login Number: L08040312
Instrument Id: HPMS8
Workgroup (AAB#): WG268935

Method: 8260
CAL ID: HPMS8 - 02-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08040312-08	5.00	DL01	111	109	108	111
L08040312-09	5.00	DL01	108	110	106	111
WG268935-01	1.00	01	105	107	110	113
WG268935-02	1.00	01	106	107	108	110

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08040312
Instrument Id: HPMS8
Workgroup (AAB#): WG268835

Method: 8260
CAL ID: HPMS8 - 02-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08040312-01	50.0	DL01	109	108	100	114
L08040312-02	50.0	DL01	109	108	100	113
L08040312-03	50.0	DL01	104	105	98.0	112
L08040312-04	50.0	DL01	105	105	97.8	114
L08040312-10	1.00	01	103	107	107	112
WG268835-01	1.00	01	108	109	107	112
WG268835-02	1.00	01	109	107	107	111
WG268835-03	1.00	01	109	108	108	111

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08040312
Instrument Id: HPMS8
Workgroup (AAB#): WG268849

Method: 8260
CAL ID: HPMS8 - 02-APR-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08040312-01	200	DL02	107	107	106	<u>112</u>
L08040312-02	500	DL02	108	109	106	<u>112</u>
L08040312-03	250	DL02	111	109	108	<u>113</u>
L08040312-04	500	DL02	113	111	106	<u>113</u>
L08040312-05	2.50	DL01	112	110	106	<u>111</u>
L08040312-06	20.0	DL01	112	109	106	<u>112</u>
L08040312-07	1.00	01	115	112	96.7	<u>111</u>
WG268849-01	1.00	01	112	109	109	<u>113</u>
WG268849-02	1.00	01	108	109	108	<u>114</u>
WG268849-03	1.00	01	105	107	106	<u>112</u>

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

METHOD BLANK SUMMARY

Login Number: L08040312 Work Group: WG268835
Blank File ID: 8M344531 Blank Sample ID: WG268835-01
Prep Date: 04/18/08 22:49 Instrument ID: HPMS8
Analyzed Date: 04/18/08 22:49 Method: 8260B
Analyst: CMS/ASP

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG268835-02	8M344532	04/18/08 23:21	01
LCS2	WG268835-03	8M344533	04/18/08 23:53	01
TRIP BLANK	L08040312-10	8M344535	04/19/08 00:57	01
EXT1-040908	L08040312-01	8M344544	04/19/08 05:47	DL01
EXT2-040908	L08040312-02	8M344545	04/19/08 06:19	DL01
EXT3-040908	L08040312-03	8M344546	04/19/08 06:52	DL01
EXT4-040908	L08040312-04	8M344547	04/19/08 07:24	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1074446
Report generated 04/23/2008 16:48



METHOD BLANK SUMMARY

Login Number: L08040312
Blank File ID: 8M344556
Prep Date: 04/19/08 12:12
Analyzed Date: 04/19/08 12:12
Analyst: CMS

Work Group: WG268849
Blank Sample ID: WG268849-01
Instrument ID: HPMS8
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG268849-02	8M344557	04/19/08 12:44	01
LCS2	WG268849-03	8M344558	04/19/08 13:16	01
EXT1-040908	L08040312-01	8M344561	04/19/08 14:53	DL02
EXT2-040908	L08040312-02	8M344562	04/19/08 15:25	DL02
EXT3-040908	L08040312-03	8M344563	04/19/08 15:58	DL02
EXT4-040908	L08040312-04	8M344564	04/19/08 16:30	DL02
EXT5-040908	L08040312-05	8M344565	04/19/08 17:02	DL01
EXT6-040908	L08040312-06	8M344566	04/19/08 17:35	DL01
EXT7-040908	L08040312-07	8M344567	04/19/08 18:07	01

Report Name: BLANK_SUMMARY
PDF File ID: 1074446
Report generated 04/23/2008 16:48



METHOD BLANK SUMMARY

Login Number: L08040312
Blank File ID: 8M344612
Prep Date: 04/21/08 11:19
Analyzed Date: 04/21/08 11:19
Analyst: CMS

Work Group: WG268935
Blank Sample ID: WG268935-01
Instrument ID: HPMS8
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG268935-02	8M344613	04/21/08 11:51	01
EXT8-040908	L08040312-08	8M344616	04/21/08 13:28	DL01
EXT8-040908-FD	L08040312-09	8M344617	04/21/08 14:01	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1074446
Report generated 04/23/2008 16:48



METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/18/08 22:49 Sample ID: WG268835-01
 Instrument ID: HPMS8 Run Date: 04/18/08 22:49 Prep Method: 5030B
 File ID: 8M344531 Analyst: CMS/ASP Method: 8260B
 Workgroup (AAB#): WG268835 Matrix: Water Units: ug/L
 Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 02-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1074447

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METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/18/08 22:49 Sample ID: WG268835-01
 Instrument ID: HPMS8 Run Date: 04/18/08 22:49 Prep Method: 5030B
 File ID: 8M344531 Analyst: CMS/ASP Method: 8260B
 Workgroup (AAB#): WG268835 Matrix: Water Units: ug/L
 Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 02-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	109	86 - 118	PASS
1,2-Dichloroethane-d4	108	80 - 120	PASS
Toluene-d8	112	88 - 110	FAIL
4-Bromofluorobenzene	107	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* Analyte concentration > RL

Report Name: BLANK

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METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/19/08 12:12 Sample ID: WG268849-01
 Instrument ID: HPMS8 Run Date: 04/19/08 12:12 Prep Method: 5030B
 File ID: 8M344556 Analyst: CMS Method: 8260B
 Workgroup (AAB#): WG268849 Matrix: Water Units: ug/L
 Contract #: DACA56-94-D-0020 Cal ID: HPMS8-02-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1074447

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METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/19/08 12:12 Sample ID: WG268849-01
 Instrument ID: HPMS8 Run Date: 04/19/08 12:12 Prep Method: 5030B
 File ID: 8M344556 Analyst: CMS Method: 8260B
 Workgroup (AAB#): WG268849 Matrix: Water Units: ug/L
 Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 02-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	109	86 - 118	PASS
1,2-Dichloroethane-d4	112	80 - 120	PASS
Toluene-d8	113	88 - 110	FAIL
4-Bromofluorobenzene	109	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* Analyte concentration > RL

Report Name: BLANK

PDF ID: 1074447

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METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/21/08 11:19 Sample ID: WG268935-01
 Instrument ID: HPMS8 Run Date: 04/21/08 11:19 Prep Method: 5030B
 File ID: 8M344612 Analyst: CMS Method: 8260B
 Workgroup (AAB#): WG268935 Matrix: Water Units: ug/L
 Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 02-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.548	1	J

Report Name: BLANK

PDF ID: 1074447

23-APR-2008 16:48



METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/21/08 11:19 Sample ID: WG268935-01
 Instrument ID: HPMS8 Run Date: 04/21/08 11:19 Prep Method: 5030B
 File ID: 8M344612 Analyst: CMS Method: 8260B
 Workgroup (AAB#): WG268935 Matrix: Water Units: ug/L
 Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 02-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.179	1	J
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	107	86 - 118	PASS
1,2-Dichloroethane-d4	105	80 - 120	PASS
Toluene-d8	113	88 - 110	FAIL
4-Bromofluorobenzene	110	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* Analyte concentration > RL

Report Name: BLANK

PDF ID: 1074447

23-APR-2008 16:48



Login Number: L08040312 Run Date: 04/21/2008 Sample ID: WG268935-02
Instrument ID: HPMS8 Run Time: 11:51 Prep Method: 5030B
File ID: 8M344613 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG268935 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD25665 Cal ID: HPMS8 - 02-APR-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Acetone	20.0	20.7	104	40	-	142	
Benzene	20.0	21.1	105	80	-	121	
Bromobenzene	20.0	21.6	108	80	-	120	
Bromochloromethane	20.0	19.5	97.3	65	-	130	
Bromodichloromethane	20.0	21.2	106	80	-	131	
Bromoform	20.0	19.1	95.7	70	-	130	
Bromomethane	20.0	18.9	94.6	30	-	145	
2-Butanone	20.0	21.3	107	30	-	150	
n-Butylbenzene	20.0	23.1	116	80	-	131	
sec-Butylbenzene	20.0	23.3	116	80	-	127	
tert-Butylbenzene	20.0	22.0	110	80	-	126	
Carbon disulfide	20.0	19.1	95.7	58	-	138	
Carbon tetrachloride	20.0	22.5	112	65	-	140	
Chlorobenzene	20.0	20.9	104	80	-	120	
Chlorodibromomethane	20.0	21.6	108	60	-	135	
Chloroethane	20.0	22.2	111	60	-	135	
2-Chloroethyl vinyl ether	20.0	17.8	88.9	58	-	151	
Chloroform	20.0	21.9	109	80	-	125	
Chloromethane	20.0	20.6	103	40	-	125	
2-Chlorotoluene	20.0	22.9	114	80	-	127	
4-Chlorotoluene	20.0	22.2	111	80	-	126	
1,2-Dibromo-3-chloropropane	20.0	19.8	99.0	50	-	130	
1,2-Dibromoethane	20.0	20.0	100	80	-	125	
Dibromomethane	20.0	19.7	98.7	75	-	125	
1,2-Dichlorobenzene	20.0	20.7	103	80	-	125	
1,3-Dichlorobenzene	20.0	21.0	105	80	-	120	
1,4-Dichlorobenzene	20.0	20.7	104	80	-	120	
Dichlorodifluoromethane	20.0	26.0	130	50	-	133	
1,1-Dichloroethane	20.0	22.8	114	80	-	125	
1,2-Dichloroethane	20.0	21.3	107	80	-	129	
1,1-Dichloroethene	20.0	20.9	105	80	-	132	
cis-1,2-Dichloroethene	20.0	22.1	110	70	-	125	
trans-1,2-Dichloroethene	20.0	23.1	115	80	-	127	
1,2-Dichloropropane	20.0	19.4	96.8	80	-	120	
1,3-Dichloropropane	20.0	20.5	102	80	-	120	
2,2-Dichloropropane	20.0	22.2	111	80	-	133	
cis-1,3-Dichloropropene	20.0	18.8	93.9	70	-	130	
trans-1,3-Dichloropropene	20.0	19.7	98.6	80	-	130	
1,1-Dichloropropene	20.0	22.1	110	75	-	130	
Ethylbenzene	20.0	22.4	112	80	-	122	
2-Hexanone	20.0	18.2	91.0	55	-	130	

LCS - Modified 03/06/2008
PDF File ID: 1074244
Report generated: 04/23/2008 16:52



Login Number: L08040312 Run Date: 04/21/2008 Sample ID: WG268935-02
Instrument ID: HPMS8 Run Time: 11:51 Prep Method: 5030B
File ID: 8M344613 Analyst: CMS Method: 8260B
Workgroup (AAB#): WG268935 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD25665 Cal ID: HPMS8 - 02-APR-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Hexachlorobutadiene	20.0	19.6	97.8	72	-	132	
Isopropylbenzene	20.0	20.8	104	80	-	122	
p-Isopropyltoluene	20.0	21.4	107	80	-	122	
4-Methyl-2-pentanone	20.0	17.5	87.3	64	-	140	
Methylene chloride	20.0	18.9	94.6	80	-	123	
Naphthalene	20.0	20.0	100	59	-	149	
n-Propylbenzene	20.0	24.0	120	80	-	129	
Styrene	20.0	21.1	106	80	-	123	
1,1,1,2-Tetrachloroethane	20.0	22.2	111	80	-	130	
1,1,2,2-Tetrachloroethane	20.0	21.7	108	79	-	125	
Tetrachloroethene	20.0	23.2	116	80	-	124	
Toluene	20.0	22.2	111	80	-	124	
1,2,3-Trichlorobenzene	20.0	19.6	98.2	55	-	140	
1,2,4-Trichlorobenzene	20.0	20.3	101	65	-	135	
1,1,1-Trichloroethane	20.0	21.4	107	80	-	134	
1,1,2-Trichloroethane	20.0	20.9	105	80	-	125	
Trichloroethene	20.0	20.0	100	80	-	122	
Trichlorofluoromethane	20.0	17.7	88.3	62	-	151	
1,2,3-Trichloropropane	20.0	21.4	107	75	-	125	
1,2,4-Trimethylbenzene	20.0	22.6	113	80	-	125	
1,3,5-Trimethylbenzene	20.0	22.8	114	80	-	127	
Vinyl acetate	20.0	14.4	72.0	10	-	150	
Vinyl chloride	20.0	26.9	134	65	-	140	
o-Xylene	20.0	20.8	104	80	-	122	
m-, p-Xylene	40.0	43.9	110	80	-	122	

Surrogates	% Recovery	Surrogate Limits			Qualifier
Dibromofluoromethane	107	86	-	118	PASS
1,2-Dichloroethane-d4	106	80	-	120	PASS
Toluene-d8	110	88	-	110	PASS
4-Bromofluorobenzene	108	86	-	115	PASS

* FAILS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 1074244
Report generated: 04/23/2008 16:52



Login Number: L08040312 Analyst: CMS/ASP Prep Method: 5030B
Instrument ID: HPMS8 Matrix: Water Method: 8260B
Workgroup (AAB#): WG268835 Units: ug/L
QC Key: STD Lot #: STD25665

Sample ID: WG268835-02 LCS File ID: 8M344532 Run Date: 04/18/2008 23:21
Sample ID: WG268835-03 LCS2 File ID: 8M344533 Run Date: 04/18/2008 23:53

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	18.0	90.1	20.0	18.0	89.8	0.365	40 - 142	20	
Benzene	20.0	21.5	107	20.0	20.9	104	2.73	80 - 121	20	
Bromobenzene	20.0	21.6	108	20.0	21.1	106	2.39	80 - 120	20	
Bromochloromethane	20.0	20.0	100	20.0	19.6	97.9	2.32	65 - 130	20	
Bromodichloromethane	20.0	22.3	111	20.0	21.4	107	3.87	80 - 131	20	
Bromoform	20.0	19.4	97.0	20.0	19.2	95.9	1.12	70 - 130	20	
Bromomethane	20.0	19.9	99.3	20.0	21.7	108	8.65	30 - 145	20	
2-Butanone	20.0	17.8	88.9	20.0	18.0	90.2	1.44	30 - 150	20	
n-Butylbenzene	20.0	23.5	117	20.0	22.3	111	5.24	80 - 131	20	
sec-Butylbenzene	20.0	23.6	118	20.0	22.5	113	4.73	80 - 127	20	
tert-Butylbenzene	20.0	22.3	112	20.0	21.2	106	4.93	80 - 126	20	
Carbon disulfide	20.0	19.3	96.3	20.0	18.3	91.3	5.31	58 - 138	20	
Carbon tetrachloride	20.0	22.6	113	20.0	21.9	109	3.38	65 - 140	20	
Chlorobenzene	20.0	21.7	108	20.0	20.8	104	3.91	80 - 120	20	
Chlorodibromomethane	20.0	22.7	114	20.0	22.3	112	1.70	60 - 135	20	
Chloroethane	20.0	21.6	108	20.0	20.8	104	3.55	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	17.5	87.3	20.0	17.8	88.9	1.90	58 - 151	20	
Chloroform	20.0	22.6	113	20.0	21.9	110	2.81	80 - 125	20	
Chloromethane	20.0	22.1	110	20.0	20.6	103	6.89	40 - 125	20	
2-Chlorotoluene	20.0	23.7	119	20.0	23.3	117	1.67	80 - 127	20	
4-Chlorotoluene	20.0	22.6	113	20.0	20.3	102	10.7	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	20.6	103	20.0	20.2	101	2.07	50 - 130	20	
1,2-Dibromoethane	20.0	20.8	104	20.0	20.6	103	0.694	80 - 125	20	
Dibromomethane	20.0	20.5	103	20.0	20.2	101	1.40	75 - 125	20	
1,2-Dichlorobenzene	20.0	21.0	105	20.0	20.4	102	2.95	80 - 125	20	
1,3-Dichlorobenzene	20.0	21.6	108	20.0	20.7	103	4.38	80 - 120	20	
1,4-Dichlorobenzene	20.0	21.3	107	20.0	20.2	101	5.50	80 - 120	20	
Dichlorodifluoromethane	20.0	27.3	136	20.0	26.4	132	3.01	50 - 133	20	*
1,1-Dichloroethane	20.0	23.3	116	20.0	22.6	113	3.02	80 - 125	20	
1,2-Dichloroethane	20.0	22.2	111	20.0	21.6	108	2.36	80 - 129	20	
1,1-Dichloroethene	20.0	21.6	108	20.0	20.8	104	3.77	80 - 132	20	
cis-1,2-Dichloroethene	20.0	22.9	115	20.0	22.1	110	3.75	70 - 125	20	
trans-1,2-Dichloroethene	20.0	23.8	119	20.0	23.3	117	2.04	80 - 127	20	
1,2-Dichloropropane	20.0	19.5	97.5	20.0	19.2	96.0	1.55	80 - 120	20	
1,3-Dichloropropane	20.0	21.2	106	20.0	21.3	106	0.520	80 - 120	20	
2,2-Dichloropropane	20.0	21.5	107	20.0	21.7	109	1.08	80 - 133	20	
cis-1,3-Dichloropropene	20.0	19.3	96.7	20.0	19.0	95.1	1.64	70 - 130	20	
trans-1,3-Dichloropropene	20.0	19.7	98.4	20.0	19.8	99.2	0.866	80 - 130	20	
1,1-Dichloropropene	20.0	22.5	113	20.0	22.1	111	1.78	75 - 130	20	
Ethylbenzene	20.0	22.7	113	20.0	21.5	108	5.18	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1074093
Report generated: 04/23/2008 16:48



Login Number: L08040312 Analyst: CMS/ASP Prep Method: 5030B
Instrument ID: HPMS8 Matrix: Water Method: 8260B
Workgroup (AAB#): WG268835 Units: ug/L
QC Key: STD Lot #: STD25665

Sample ID: WG268835-02 LCS File ID: 8M344532 Run Date: 04/18/2008 23:21
Sample ID: WG268835-03 LCS2 File ID: 8M344533 Run Date: 04/18/2008 23:53

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	17.1	85.5	20.0	17.9	89.5	4.51	55 - 130	20	
Hexachlorobutadiene	20.0	19.0	94.9	20.0	17.9	89.5	5.88	72 - 132	20	
Isopropylbenzene	20.0	21.6	108	20.0	20.1	101	7.16	80 - 122	20	
p-Isopropyltoluene	20.0	22.0	110	20.0	20.8	104	5.64	80 - 122	20	
4-Methyl-2-pentanone	20.0	17.3	86.6	20.0	17.4	87.2	0.713	64 - 140	20	
Methylene chloride	20.0	19.8	98.9	20.0	19.1	95.6	3.40	80 - 123	20	
Naphthalene	20.0	20.6	103	20.0	20.0	100	3.10	59 - 149	20	
n-Propylbenzene	20.0	24.4	122	20.0	23.2	116	4.68	80 - 129	20	
Styrene	20.0	22.1	111	20.0	20.8	104	6.04	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	23.0	115	20.0	22.1	110	3.96	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	22.5	112	20.0	22.5	112	0.114	79 - 125	20	
Tetrachloroethene	20.0	23.7	118	20.0	22.6	113	4.46	80 - 124	20	
Toluene	20.0	22.9	114	20.0	22.0	110	4.04	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	19.7	98.7	20.0	19.3	96.5	2.29	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	20.3	101	20.0	19.6	98.0	3.44	65 - 135	20	
1,1,1-Trichloroethane	20.0	21.7	109	20.0	21.3	107	2.03	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.5	108	20.0	21.4	107	0.577	80 - 125	20	
Trichloroethene	20.0	20.8	104	20.0	20.3	101	2.37	80 - 122	20	
Trichlorofluoromethane	20.0	17.9	89.5	20.0	17.2	86.2	3.70	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.5	108	20.0	21.9	110	1.89	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	23.2	116	20.0	21.7	109	6.38	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	23.4	117	20.0	22.1	110	5.68	80 - 127	20	
Vinyl acetate	20.0	15.4	77.1	20.0	15.8	79.2	2.72	10 - 150	20	
Vinyl chloride	20.0	28.2	141	20.0	25.2	126	11.1	65 - 140	20	*
o-Xylene	20.0	21.9	110	20.0	20.5	102	6.82	80 - 122	20	
m-, p-Xylene	40.0	45.5	114	40.0	42.6	107	6.56	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	107	108	86 - 118	PASS
1,2-Dichloroethane-d4	109	109	80 - 120	PASS
Toluene-d8	111	111	88 - 110	FAIL
4-Bromofluorobenzene	107	108	86 - 115	PASS

* FAILS %REC LIMIT
FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1074093
Report generated: 04/23/2008 16:48



Login Number: L08040312 Analyst: CMS Prep Method: 5030B
Instrument ID: HPMS8 Matrix: Water Method: 8260B
Workgroup (AAB#): WG268849 Units: ug/L
QC Key: STD Lot #: STD25665
Sample ID: WG268849-02 LCS File ID: 8M344557 Run Date: 04/19/2008 12:44
Sample ID: WG268849-03 LCS2 File ID: 8M344558 Run Date: 04/19/2008 13:16

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	18.2	90.8	20.0	19.2	95.9	5.48	40 - 142	20	
Benzene	20.0	21.4	107	20.0	21.1	106	1.10	80 - 121	20	
Bromobenzene	20.0	21.7	109	20.0	21.4	107	1.20	80 - 120	20	
Bromochloromethane	20.0	19.1	95.7	20.0	19.1	95.6	0.186	65 - 130	20	
Bromodichloromethane	20.0	21.9	110	20.0	21.6	108	1.39	80 - 131	20	
Bromoform	20.0	18.7	93.3	20.0	18.4	92.0	1.34	70 - 130	20	
Bromomethane	20.0	22.4	112	20.0	20.9	104	7.24	30 - 145	20	
2-Butanone	20.0	18.6	92.8	20.0	18.4	91.8	1.06	30 - 150	20	
n-Butylbenzene	20.0	23.3	116	20.0	23.2	116	0.365	80 - 131	20	
sec-Butylbenzene	20.0	23.4	117	20.0	23.2	116	0.735	80 - 127	20	
tert-Butylbenzene	20.0	22.0	110	20.0	22.1	111	0.440	80 - 126	20	
Carbon disulfide	20.0	19.8	98.8	20.0	19.2	96.2	2.69	58 - 138	20	
Carbon tetrachloride	20.0	23.6	118	20.0	22.8	114	3.16	65 - 140	20	
Chlorobenzene	20.0	21.6	108	20.0	21.2	106	1.85	80 - 120	20	
Chlorodibromomethane	20.0	22.0	110	20.0	21.2	106	3.76	60 - 135	20	
Chloroethane	20.0	21.7	108	20.0	22.3	112	2.94	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	17.2	85.9	20.0	17.3	86.5	0.736	58 - 151	20	
Chloroform	20.0	22.7	113	20.0	22.0	110	2.77	80 - 125	20	
Chloromethane	20.0	22.9	115	20.0	22.3	111	2.88	40 - 125	20	
2-Chlorotoluene	20.0	24.4	122	20.0	23.9	119	2.08	80 - 127	20	
4-Chlorotoluene	20.0	21.9	109	20.0	21.8	109	0.256	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	17.9	89.3	20.0	18.0	89.9	0.684	50 - 130	20	
1,2-Dibromoethane	20.0	19.8	99.1	20.0	19.2	96.1	3.11	80 - 125	20	
Dibromomethane	20.0	19.6	98.1	20.0	19.4	97.0	1.08	75 - 125	20	
1,2-Dichlorobenzene	20.0	20.6	103	20.0	20.3	102	1.63	80 - 125	20	
1,3-Dichlorobenzene	20.0	21.5	107	20.0	21.5	107	0.117	80 - 120	20	
1,4-Dichlorobenzene	20.0	20.8	104	20.0	20.7	103	0.354	80 - 120	20	
Dichlorodifluoromethane	20.0	27.4	137	20.0	27.4	137	0.0243	50 - 133	20	*
1,1-Dichloroethane	20.0	23.8	119	20.0	23.1	116	2.90	80 - 125	20	
1,2-Dichloroethane	20.0	22.1	110	20.0	21.6	108	2.19	80 - 129	20	
1,1-Dichloroethene	20.0	22.2	111	20.0	21.5	108	3.03	80 - 132	20	
cis-1,2-Dichloroethene	20.0	22.3	112	20.0	21.9	109	2.14	70 - 125	20	
trans-1,2-Dichloroethene	20.0	24.5	123	20.0	24.1	121	1.75	80 - 127	20	
1,2-Dichloropropane	20.0	19.6	98.0	20.0	19.5	97.4	0.603	80 - 120	20	
1,3-Dichloropropane	20.0	20.6	103	20.0	20.2	101	1.53	80 - 120	20	
2,2-Dichloropropane	20.0	23.4	117	20.0	22.3	112	4.58	80 - 133	20	
cis-1,3-Dichloropropene	20.0	19.0	94.8	20.0	18.7	93.3	1.60	70 - 130	20	
trans-1,3-Dichloropropene	20.0	20.1	101	20.0	19.5	97.7	3.06	80 - 130	20	
1,1-Dichloropropene	20.0	22.8	114	20.0	22.5	112	1.63	75 - 130	20	
Ethylbenzene	20.0	22.7	114	20.0	22.8	114	0.404	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1074093
Report generated: 04/23/2008 16:48



Login Number: L08040312 Analyst: CMS Prep Method: 5030B
 Instrument ID: HPMS8 Matrix: Water Method: 8260B
 Workgroup (AAB#): WG268849 Units: ug/L
 QC Key: STD Lot #: STD25665

Sample ID: WG268849-02 LCS File ID: 8M344557 Run Date: 04/19/2008 12:44
 Sample ID: WG268849-03 LCS2 File ID: 8M344558 Run Date: 04/19/2008 13:16

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	17.0	85.1	20.0	16.7	83.7	1.59	55 - 130	20	
Hexachlorobutadiene	20.0	17.7	88.7	20.0	18.3	91.6	3.31	72 - 132	20	
Isopropylbenzene	20.0	20.9	105	20.0	21.1	106	0.993	80 - 122	20	
p-Isopropyltoluene	20.0	21.8	109	20.0	21.5	107	1.76	80 - 122	20	
4-Methyl-2-pentanone	20.0	16.4	82.2	20.0	15.9	79.7	3.05	64 - 140	20	
Methylene chloride	20.0	19.0	94.8	20.0	19.2	95.8	1.02	80 - 123	20	
Naphthalene	20.0	17.2	85.8	20.0	17.4	86.9	1.30	59 - 149	20	
n-Propylbenzene	20.0	24.4	122	20.0	24.0	120	1.68	80 - 129	20	
Styrene	20.0	21.2	106	20.0	21.4	107	0.860	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	23.2	116	20.0	22.8	114	1.76	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	21.8	109	20.0	21.3	107	2.13	79 - 125	20	
Tetrachloroethene	20.0	23.9	119	20.0	23.4	117	1.89	80 - 124	20	
Toluene	20.0	23.4	117	20.0	22.7	113	3.14	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	16.9	84.4	20.0	17.2	86.2	2.10	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	18.2	91.2	20.0	18.7	93.6	2.65	65 - 135	20	
1,1,1-Trichloroethane	20.0	22.5	112	20.0	21.9	110	2.49	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.1	106	20.0	20.4	102	3.37	80 - 125	20	
Trichloroethene	20.0	19.8	99.2	20.0	19.9	99.6	0.389	80 - 122	20	
Trichlorofluoromethane	20.0	17.5	87.5	20.0	17.8	88.8	1.48	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.1	106	20.0	20.8	104	1.47	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	23.0	115	20.0	22.8	114	0.907	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	23.1	115	20.0	23.1	115	0.0361	80 - 127	20	
Vinyl acetate	20.0	15.6	77.8	20.0	15.0	75.2	3.43	10 - 150	20	
Vinyl chloride	20.0	28.7	144	20.0	28.6	143	0.523	65 - 140	20	*
o-Xylene	20.0	21.1	106	20.0	21.5	108	1.87	80 - 122	20	
m-, p-Xylene	40.0	44.6	112	40.0	44.8	112	0.295	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Dibromofluoromethane	109	107	86 - 118	PASS
1,2-Dichloroethane-d4	108	105	80 - 120	PASS
Toluene-d8	114	112	88 - 110	FAIL
4-Bromofluorobenzene	108	106	86 - 115	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
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 Report generated: 04/23/2008 16:48



BFB

Login Number: L08040312

Tune ID: WG267167-01

Instrument: HPMS8

Run Date: 04/02/2008

Analyst: CMS

Run Time: 12:38

Workgroup: WG267167

File ID: 8M344060

Cal ID: HPMS8-02-APR-08

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	19.4	12938	PASS
75.0	95.0	30.0	60.0	48.7	32461	PASS
95.0	95.0	100	100	100	66597	PASS
96.0	95.0	5.00	9.00	7.23	4816	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	73.6	49010	PASS
175	174	5.00	9.00	7.31	3582	PASS
176	174	95.0	101	98.0	48053	PASS
177	176	5.00	9.00	6.32	3038	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG267167-02	STD	01	04/02/2008 13:38	
WG267167-03	STD	01	04/02/2008 14:10	
WG267167-04	STD	01	04/02/2008 14:42	
WG267167-05	STD	01	04/02/2008 15:47	
WG267167-06	STD	01	04/02/2008 16:19	
WG267167-07	STD-CCV	01	04/02/2008 16:51	
WG267167-08	STD	01	04/02/2008 17:23	
WG267167-09	STD	01	04/02/2008 17:56	
WG267167-10	STD	01	04/02/2008 18:28	
WG267167-11	SSCV	01	04/02/2008 20:05	

* Sample past 12 hour tune limit

BFB

Login Number: L08040312

Tune ID: WG268834-01

Instrument: HPMS8

Run Date: 04/18/2008

Analyst: CMS/ASP

Run Time: 21:18

Workgroup: WG268834

File ID: 8M344528

Cal ID: HPMS8-02-APR-08

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	19.4	11001	PASS
75.0	95.0	30.0	60.0	52.2	29528	PASS
95.0	95.0	100	100	100	56613	PASS
96.0	95.0	5.00	9.00	7.31	4139	PASS
173	174	0	2.00	0.633	265	PASS
174	95.0	50.0	100	74.0	41869	PASS
175	174	5.00	9.00	7.37	3086	PASS
176	174	95.0	101	97.7	40906	PASS
177	176	5.00	9.00	7.12	2912	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268834-02	CCV	01	04/18/2008 21:43	
WG268835-01	BLANK	01	04/18/2008 22:49	
WG268835-02	LCS	01	04/18/2008 23:21	
WG268835-03	LCS2	01	04/18/2008 23:53	
L08040312-10	TRIP BLANK	01	04/19/2008 00:57	
L08040312-01	EXT1-040908	DL01	04/19/2008 05:47	
L08040312-02	EXT2-040908	DL01	04/19/2008 06:19	
L08040312-03	EXT3-040908	DL01	04/19/2008 06:52	
L08040312-04	EXT4-040908	DL01	04/19/2008 07:24	

* Sample past 12 hour tune limit

BFB

Login Number: L08040312 _____ Tune ID: WG268848-01 _____
Instrument: HPMS8 _____ Run Date: 04/19/2008 _____
Analyst: CMS _____ Run Time: 10:39 _____
Workgroup: WG268848 _____ File ID: 8M344553 _____
Cal ID: HPMS8 - 02-APR-08 _____

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	20.4	13793	PASS
75.0	95.0	30.0	60.0	50.1	33808	PASS
95.0	95.0	100	100	100	67482	PASS
96.0	95.0	5.00	9.00	7.15	4825	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	71.9	48528	PASS
175	174	5.00	9.00	6.68	3243	PASS
176	174	95.0	101	96.2	46688	PASS
177	176	5.00	9.00	6.73	3140	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268848-02	CCV	01	04/19/2008 11:07	
WG268849-01	BLANK	01	04/19/2008 12:12	
WG268849-02	LCS	01	04/19/2008 12:44	
WG268849-03	LCS2	01	04/19/2008 13:16	
L08040312-01	EXT1-040908	DL02	04/19/2008 14:53	
L08040312-02	EXT2-040908	DL02	04/19/2008 15:25	
L08040312-03	EXT3-040908	DL02	04/19/2008 15:58	
L08040312-04	EXT4-040908	DL02	04/19/2008 16:30	
L08040312-05	EXT5-040908	DL01	04/19/2008 17:02	
L08040312-06	EXT6-040908	DL01	04/19/2008 17:35	
L08040312-07	EXT7-040908	01	04/19/2008 18:07	

* Sample past 12 hour tune limit

BFB

Login Number: L08040312 _____ Tune ID: WG268934-01 _____
Instrument: HPMS8 _____ Run Date: 04/21/2008 _____
Analyst: CMS _____ Run Time: 10:18 _____
Workgroup: WG268934 _____ File ID: 8M344610 _____
Cal ID: HPMS8 - 02-APR-08 _____

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
50.0	95.0	15.0	40.0	19.3	12966	PASS
75.0	95.0	30.0	60.0	48.3	32424	PASS
95.0	95.0	100	100	100	67154	PASS
96.0	95.0	5.00	9.00	6.06	4072	PASS
173	174	0	2.00	0.214	108	PASS
174	95.0	50.0	100	75.1	50461	PASS
175	174	5.00	9.00	6.62	3340	PASS
176	174	95.0	101	95.0	47962	PASS
177	176	5.00	9.00	6.39	3066	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG268935-01	BLANK	01	04/21/2008 11:19	
WG268935-02	LCS	01	04/21/2008 11:51	
L08040312-08	EXT8-040908	DL01	04/21/2008 13:28	
L08040312-09	EXT8-040908-FD	DL01	04/21/2008 14:01	

* Sample past 12 hour tune limit

Login Number: L08040312
Analytical Method: 8260B
ICAL Workgroup: WG267167

Instrument ID: HPMS8
Initial Calibration Date: 02-APR-08 18:28
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R ²)
1,1-Dichloroethene	CCC	0.2968	18.9		1.00
1,2-Dichloropropane	CCC	0.2036	2.73		
Chloroform	CCC	0.3846	5.29		
Ethylbenzene	CCC	0.4065	10.9		
Toluene	CCC	1.090	8.83		
Vinyl Chloride	CCC	0.1345	8.59		
1,1,2,2-Tetrachloroethane	SPCC	0.3439	10.1		
1,1-Dichloroethane	SPCC	0.3477	8.92		
Bromoform	SPCC	0.1188	19.6	1.00	
Chlorobenzene	SPCC	0.7541	9.70		
Chloromethane	SPCC	0.2008	5.30		
1,1,1,2-Tetrachloroethane		0.2447	8.02		
1,1,1-Trichloroethane		0.3207	17.8		1.00
1,1,2-Trichloroethane		0.1732	3.74		
1,1-Dichloropropene		0.2848	13.8		
1,2,3-Trichlorobenzene		0.7229	12.4		
1,2,3-Trichloropropane		0.1121	8.67		
1,2,4-Trichlorobenzene		0.8386	11.6		
1,2,4-Trimethylbenzene		2.290	10.0		
1,2-Dibromo-3-Chloropropane		0.06427	28.2		1.00
1,2-Dibromoethane		0.1805	1.72		
1,2-Dichlorobenzene		1.077	9.53		
1,2-Dichloroethane		0.2654	2.66		
1,3,5-Trimethylbenzene		2.160	9.78		
1,3-Dichlorobenzene		1.188	8.90		
1,3-Dichloropropane		0.3261	2.53		
1,4-Dichlorobenzene		1.207	10.5		
2,2-Dichloropropane		0.3078	17.6		1.00
2-Butanone		0.04607	8.28		
2-Chloroethyl Vinyl Ether		0.09353	6.26		
2-Chlorotoluene		2.026	11.9		
2-Hexanone		0.04898	7.14		
4-Chlorotoluene		1.921	9.70		
4-Methyl-2-Pentanone		0.04197	8.84		
Acetone		0.03183	4.79		
Benzene		0.8125	6.33		
Bromobenzene		0.5665	6.37		
Bromochloromethane		0.1174	3.61		
Bromodichloromethane		0.2789	9.23		
Bromomethane		0.1550	19.3		1.00
Carbon Disulfide		0.5907	23.2	0.999	
Carbon Tetrachloride		0.2525	27.2	1.00	
Chloroethane		0.1598	10.7		
Dibromochloromethane		0.2083	14.6		
Dibromomethane		0.1018	4.40		

INT_CAL - Modified 03/06/2008
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Login Number: **L08040312**
Analytical Method: **8260B**
ICAL Workgroup: **WG267167**

Instrument ID: **HPMS8**
Initial Calibration Date: **02-APR-08 18:28**
Column ID: **F**

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R ²)
Dichlorodifluoromethane		0.2446	19.0		1.00
Hexachlorobutadiene		0.4475	6.49		
Isopropylbenzene		1.247	11.6		
Methylene Chloride		0.2582	28.3		1.00
Naphthalene		1.367	7.01		
Styrene		0.8548	8.82		
Tetrachloroethene		0.2103	13.0		
Trichloroethene		0.2156	7.60		
Trichlorofluoromethane		0.3811	22.1	1.00	
Vinyl Acetate		0.1964	17.2	0.999	
cis-1,2-Dichloroethene		0.2098	4.12		
cis-1,3-Dichloropropene		0.3322	6.55		
m-,p-Xylene		0.5090	12.1		
n-Butylbenzene		2.169	10.5		
n-Propylbenzene		2.914	12.0		
o-Xylene		0.5253	8.20		
p-Isopropyltoluene		2.252	10.9		
sec-Butylbenzene		2.599	11.5		
tert-Butylbenzene		0.4372	10.5		
trans-1,2-Dichloroethene		0.2731	8.56		
trans-1,3-Dichloropropene		0.3535	5.58		

R = Correlation coefficient; 0.995 minimum

R² = Coefficient of determination; 0.99 minimum

Login Number: L08040312

Instrument ID: HPMS8

Analytical Method: 8260B

Initial Calibration Date: 02-APR-08 18:28

Column ID: F

Analyte	WG267167-02			WG267167-03			WG267167-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	4236.00000	0.2384	1.00	7722.00000	0.2009
1,2-Dichloropropane	NA	NA	NA	0.400	3686.00000	0.2075	1.00	7650.00000	0.1990
Chloroform	0.300	5629.00000	0.4201	0.400	7124.00000	0.4010	1.00	13512.0000	0.3515
Ethylbenzene	NA	NA	NA	0.400	5466.00000	0.4099	1.00	11445.0000	0.3633
Toluene	NA	NA	NA	0.400	15368.0000	1.153	1.00	32227.0000	1.023
Vinyl Chloride	NA	NA	NA	0.400	2646.00000	0.1489	1.00	4958.00000	0.1290
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	2109.00000	0.3017	1.00	4938.00000	0.2881
1,1-Dichloroethane	NA	NA	NA	0.400	6122.00000	0.3446	1.00	11041.0000	0.2873
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2560.00000	0.08130
Chlorobenzene	NA	NA	NA	0.400	10861.0000	0.8145	1.00	24100.0000	0.7650
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	8302.00000	0.2160
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	3262.00000	0.2446	1.00	7389.00000	0.2345
1,1,1-Trichloroethane	NA	NA	NA	0.400	4364.00000	0.2456	1.00	8902.00000	0.2316
1,1,2-Trichloroethane	NA	NA	NA	0.400	2369.00000	0.1777	1.00	5112.00000	0.1623
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	7928.00000	0.2063
1,2,3-Trichlorobenzene	0.300	4422.00000	0.8305	0.400	5975.00000	0.8548	1.00	11937.0000	0.6964
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	1593.00000	0.09290
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	6786.00000	0.9708	1.00	14855.0000	0.8666
1,2,4-Trimethylbenzene	NA	NA	NA	0.400	16460.0000	2.355	1.00	39375.0000	2.297
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	1.00	540.000000	0.03150
1,2-Dibromoethane	NA	NA	NA	0.400	2341.00000	0.1756	1.00	5652.00000	0.1794
1,2-Dichlorobenzene	0.300	6202.00000	1.165	0.400	8520.00000	1.219	1.00	18842.0000	1.099
1,2-Dichloroethane	NA	NA	NA	0.400	4641.00000	0.2612	1.00	9890.00000	0.2573
1,3,5-Trimethylbenzene	NA	NA	NA	0.400	14586.0000	2.087	1.00	34319.0000	2.002
1,3-Dichlorobenzene	NA	NA	NA	0.400	9012.00000	1.289	1.00	20960.0000	1.223
1,3-Dichloropropane	NA	NA	NA	0.400	4271.00000	0.3203	1.00	10273.0000	0.3261
1,4-Dichlorobenzene	0.300	7074.00000	1.329	0.400	9548.00000	1.366	1.00	20115.0000	1.174
2,2-Dichloropropane	NA	NA	NA	0.400	4798.00000	0.2700	1.00	7766.00000	0.2020
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	1.00	3169.00000	0.08240
2-Chlorotoluene	NA	NA	NA	0.400	15056.0000	2.154	1.00	34300.0000	2.001
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	15129.0000	2.164	1.00	32599.0000	1.902
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	15136.0000	0.8519	1.00	30206.0000	0.7859
Bromobenzene	0.300	3091.00000	0.5805	0.400	4073.00000	0.5827	1.00	9651.00000	0.5630
Bromochloromethane	NA	NA	NA	0.400	2192.00000	0.1234	1.00	4271.00000	0.1111
Bromodichloromethane	NA	NA	NA	0.400	4320.00000	0.2431	1.00	9269.00000	0.2412
Bromomethane	NA	NA	NA	0.400	2498.00000	0.1406	1.00	4142.00000	0.1078
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	13227.0000	0.3441
Carbon Tetrachloride	NA	NA	NA	0.400	2688.00000	0.1513	1.00	6035.00000	0.1570

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Login Number: L08040312
 Analytical Method: 8260B

Instrument ID: HPMS8
 Initial Calibration Date: 02-APR-08 18:28
 Column ID: F

Analyte	WG267167-05			WG267167-06			WG267167-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	57187.0000	0.2975	20.0	240661.000	0.3218	50.0	646729.000	0.3320
1,2-Dichloropropane	5.00	40520.0000	0.2108	20.0	154875.000	0.2071	50.0	399212.000	0.2050
Chloroform	5.00	74643.0000	0.3883	20.0	285691.000	0.3820	50.0	746260.000	0.3831
Ethylbenzene	5.00	72729.0000	0.4620	20.0	280588.000	0.4455	50.0	704316.000	0.4317
Toluene	5.00	189370.000	1.203	20.0	729484.000	1.158	50.0	1821598.00	1.117
Vinyl Chloride	5.00	22316.0000	0.1161	20.0	109924.000	0.1470	50.0	272698.000	0.1400
1,1,2,2-Tetrachloroethane	5.00	29763.0000	0.3488	20.0	124367.000	0.3571	50.0	326315.000	0.3691
1,1-Dichloroethane	5.00	66935.0000	0.3482	20.0	257035.000	0.3437	50.0	682482.000	0.3504
Bromoform	5.00	15807.0000	0.1004	20.0	77339.0000	0.1228	50.0	214860.000	0.1317
Chlorobenzene	5.00	129788.000	0.8244	20.0	499268.000	0.7926	50.0	1241100.00	0.7607
Chloromethane	5.00	36373.0000	0.1892	20.0	147066.000	0.1966	50.0	375854.000	0.1930
1,1,1,2-Tetrachloroethane	5.00	40809.0000	0.2592	20.0	167261.000	0.2655	50.0	421137.000	0.2581
1,1,1-Trichloroethane	5.00	65313.0000	0.3398	20.0	266933.000	0.3569	50.0	715274.000	0.3672
1,1,2-Trichloroethane	5.00	28409.0000	0.1805	20.0	112112.000	0.1780	50.0	281001.000	0.1722
1,1-Dichloropropene	5.00	57538.0000	0.2993	20.0	228971.000	0.3062	50.0	598471.000	0.3073
1,2,3-Trichlorobenzene	5.00	63883.0000	0.7486	20.0	253260.000	0.7272	50.0	612380.000	0.6927
1,2,3-Trichloropropane	5.00	9501.00000	0.1113	20.0	40381.0000	0.1160	50.0	102617.000	0.1161
1,2,4-Trichlorobenzene	5.00	77483.0000	0.9079	20.0	301473.000	0.8657	50.0	724708.000	0.8197
1,2,4-Trimethylbenzene	5.00	217955.000	2.554	20.0	853637.000	2.451	50.0	2085242.00	2.359
1,2-Dibromo-3-Chloropropane	5.00	4790.00000	0.05610	20.0	23537.0000	0.06760	50.0	64358.0000	0.07280
1,2-Dibromoethane	5.00	28394.0000	0.1804	20.0	115156.000	0.1828	50.0	296402.000	0.1817
1,2-Dichlorobenzene	5.00	95268.0000	1.116	20.0	377482.000	1.084	50.0	932217.000	1.054
1,2-Dichloroethane	5.00	52854.0000	0.2750	20.0	200875.000	0.2686	50.0	526634.000	0.2704
1,3,5-Trimethylbenzene	5.00	205842.000	2.412	20.0	827625.000	2.377	50.0	2028323.00	2.294
1,3-Dichlorobenzene	5.00	108217.000	1.268	20.0	430699.000	1.237	50.0	1062257.00	1.202
1,3-Dichloropropane	5.00	53062.0000	0.3371	20.0	210342.000	0.3339	50.0	532528.000	0.3264
1,4-Dichlorobenzene	5.00	110108.000	1.290	20.0	426081.000	1.224	50.0	1049866.00	1.188
2,2-Dichloropropane	5.00	60353.0000	0.3140	20.0	251897.000	0.3368	50.0	679273.000	0.3487
2-Butanone	5.00	7936.00000	0.04130	20.0	31997.0000	0.04280	50.0	86270.0000	0.04430
2-Chloroethyl Vinyl Ether	5.00	17441.0000	0.09070	20.0	72647.0000	0.09710	50.0	188630.000	0.09680
2-Chlorotoluene	5.00	192073.000	2.251	20.0	777299.000	2.232	50.0	1844300.00	2.086
2-Hexanone	5.00	6748.00000	0.04290	20.0	30128.0000	0.04780	50.0	78566.0000	0.04820
4-Chlorotoluene	5.00	176408.000	2.067	20.0	684955.000	1.967	50.0	1738013.00	1.966
4-Methyl-2-Pentanone	5.00	6789.00000	0.03530	20.0	30601.0000	0.04090	50.0	81638.0000	0.04190
Acetone	5.00	6102.00000	0.03170	20.0	23194.0000	0.03100	50.0	58417.0000	0.03000
Benzene	5.00	165469.000	0.8608	20.0	633605.000	0.8472	50.0	1622693.00	0.8331
Bromobenzene	5.00	52680.0000	0.6173	20.0	201027.000	0.5772	50.0	508237.000	0.5749
Bromochloromethane	5.00	22844.0000	0.1188	20.0	89914.0000	0.1202	50.0	230078.000	0.1181
Bromodichloromethane	5.00	54742.0000	0.2848	20.0	222980.000	0.2982	50.0	585690.000	0.3007
Bromomethane	5.00	25037.0000	0.1302	20.0	119005.000	0.1591	50.0	342349.000	0.1758
Carbon Disulfide	5.00	98561.0000	0.5127	20.0	487784.000	0.6522	50.0	1312925.00	0.6741
Carbon Tetrachloride	5.00	50415.0000	0.2623	20.0	216091.000	0.2889	50.0	593555.000	0.3047

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Login Number: L08040312

Instrument ID: HPMS8

Analytical Method: 8260B

Initial Calibration Date: 02-APR-08 18:28

Column ID: F

Analyte	WG267167-08			WG267167-09			WG267167-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	1366539.00	0.3442	200	2710323.00	0.3427	NA	NA	NA
1,2-Dichloropropane	100	797397.000	0.2009	200	1541132.00	0.1948	NA	NA	NA
Chloroform	100	1513166.00	0.3811	200	2920892.00	0.3693	NA	NA	NA
Ethylbenzene	100	1285969.00	0.3929	200	2275887.00	0.3400	NA	NA	NA
Toluene	100	3440261.00	1.051	200	6184504.00	0.9239	NA	NA	NA
Vinyl Chloride	100	521997.000	0.1315	200	1022132.00	0.1292	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	673859.000	0.3747	200	1323506.00	0.3679	NA	NA	NA
1,1-Dichloroethane	100	1506873.00	0.3796	200	3008789.00	0.3804	NA	NA	NA
Bromoform	100	458910.000	0.1402	200	913121.000	0.1364	NA	NA	NA
Chlorobenzene	100	2318700.00	0.7085	200	4105600.00	0.6133	NA	NA	NA
Chloromethane	100	787032.000	0.1982	200	1673392.00	0.2116	NA	NA	NA
1,1,1,2-Tetrachloroethane	100	797631.000	0.2437	200	1389056.00	0.2075	NA	NA	NA
1,1,1-Trichloroethane	100	1435890.00	0.3617	200	2705390.00	0.3420	NA	NA	NA
1,1,2-Trichloroethane	100	570566.000	0.1743	200	1120368.00	0.1674	NA	NA	NA
1,1-Dichloropropene	100	1207225.00	0.3041	200	2260915.00	0.2858	NA	NA	NA
1,2,3-Trichlorobenzene	100	1171201.00	0.6513	200	2093193.00	0.5818	NA	NA	NA
1,2,3-Trichloropropane	100	214464.000	0.1193	200	420350.000	0.1168	NA	NA	NA
1,2,4-Trichlorobenzene	100	1374337.00	0.7643	200	2428950.00	0.6751	NA	NA	NA
1,2,4-Trimethylbenzene	100	3884602.00	2.160	200	6659306.00	1.851	NA	NA	NA
1,2-Dibromo-3-Chloropropane	100	140439.000	0.07810	200	285931.000	0.07950	NA	NA	NA
1,2-Dibromoethane	100	605654.000	0.1851	200	1193829.00	0.1783	NA	NA	NA
1,2-Dichlorobenzene	100	1780913.00	0.9904	200	3194342.00	0.8878	NA	NA	NA
1,2-Dichloroethane	100	1067515.00	0.2689	200	2029300.00	0.2566	NA	NA	NA
1,3,5-Trimethylbenzene	100	3812627.00	2.120	200	6590094.00	1.832	NA	NA	NA
1,3-Dichlorobenzene	100	1997415.00	1.111	200	3548092.00	0.9862	NA	NA	NA
1,3-Dichloropropane	100	1068389.00	0.3265	200	2089530.00	0.3121	NA	NA	NA
1,4-Dichlorobenzene	100	1996804.00	1.110	200	3501559.00	0.9732	NA	NA	NA
2,2-Dichloropropane	100	1386333.00	0.3492	200	2643669.00	0.3342	NA	NA	NA
2-Butanone	100	192895.000	0.04860	200	402899.000	0.05090	300	561597.000	0.04850
2-Chloroethyl Vinyl Ether	100	390199.000	0.09830	200	777766.000	0.09830	300	1055627.00	0.09110
2-Chlorotoluene	100	3410809.00	1.897	200	5613191.00	1.560	NA	NA	NA
2-Hexanone	100	169558.000	0.05180	200	344147.000	0.05140	300	491141.000	0.05180
4-Chlorotoluene	100	3203737.00	1.782	200	5751629.00	1.599	NA	NA	NA
4-Methyl-2-Pentanone	100	177583.000	0.04470	200	361803.000	0.04570	300	501387.000	0.04330
Acetone	100	132207.000	0.03330	200	269061.000	0.03400	300	359411.000	0.03100
Benzene	100	3147140.00	0.7927	200	5665034.00	0.7162	NA	NA	NA
Bromobenzene	100	977129.000	0.5434	200	1774805.00	0.4933	NA	NA	NA
Bromochloromethane	100	466737.000	0.1176	200	891298.000	0.1127	NA	NA	NA
Bromodichloromethane	100	1175896.00	0.2962	200	2280921.00	0.2884	NA	NA	NA
Bromomethane	100	736953.000	0.1856	200	1470511.00	0.1859	NA	NA	NA
Carbon Disulfide	100	2759601.00	0.6951	200	5269311.00	0.6662	NA	NA	NA
Carbon Tetrachloride	100	1198669.00	0.3019	200	2382766.00	0.3012	NA	NA	NA

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Login Number: L08040312
 Analytical Method: 8260B

Instrument ID: HPMS8
 Initial Calibration Date: 02-APR-08 18:28
 Column ID: F

Analyte	WG267167-02			WG267167-03			WG267167-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	5172.00000	0.1346
Dibromochloromethane	NA	NA	NA	0.400	2262.00000	0.1696	1.00	5140.00000	0.1632
Dibromomethane	NA	NA	NA	0.400	1661.00000	0.09350	1.00	3783.00000	0.09840
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	6621.00000	0.1723
Hexachlorobutadiene	NA	NA	NA	0.400	3348.00000	0.4790	1.00	7047.00000	0.4111
Isopropylbenzene	NA	NA	NA	0.400	15582.0000	1.169	1.00	33845.0000	1.074
Methylene Chloride	NA	NA	NA	0.400	7374.00000	0.4150	1.00	10818.0000	0.2815
Naphthalene	NA	NA	NA	0.400	10127.0000	1.449	1.00	23649.0000	1.380
Styrene	NA	NA	NA	0.400	11458.0000	0.8593	1.00	25986.0000	0.8249
Tetrachloroethene	NA	NA	NA	0.400	2318.00000	0.1738	1.00	5619.00000	0.1784
Trichloroethene	NA	NA	NA	0.400	3748.00000	0.2109	1.00	7151.00000	0.1860
Trichlorofluoromethane	NA	NA	NA	0.400	5267.00000	0.2964	1.00	10421.0000	0.2711
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	3792.00000	0.2134	1.00	7385.00000	0.1921
cis-1,3-Dichloropropene	NA	NA	NA	0.400	5545.00000	0.3121	1.00	11287.0000	0.2937
m-,p-Xylene	NA	NA	NA	0.800	13961.0000	0.5235	2.00	30612.0000	0.4858
n-Butylbenzene	NA	NA	NA	0.400	15070.0000	2.156	1.00	32936.0000	1.921
n-Propylbenzene	NA	NA	NA	0.400	19742.0000	2.824	1.00	43768.0000	2.553
o-Xylene	NA	NA	NA	0.400	7054.00000	0.5290	1.00	15772.0000	0.5006
p-Isopropyltoluene	NA	NA	NA	0.400	14993.0000	2.145	1.00	34164.0000	1.993
sec-Butylbenzene	NA	NA	NA	0.400	17320.0000	2.478	1.00	38037.0000	2.219
tert-Butylbenzene	NA	NA	NA	0.400	2679.00000	0.3833	1.00	6640.00000	0.3874
trans-1,2-Dichloroethene	NA	NA	NA	0.400	4577.00000	0.2576	1.00	8719.00000	0.2268
trans-1,3-Dichloropropene	NA	NA	NA	0.400	4340.00000	0.3255	1.00	10278.0000	0.3262

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Login Number: L08040312
 Analytical Method: 8260B

Instrument ID: HPMS8
 Initial Calibration Date: 02-APR-08 18:28
 Column ID: F

Analyte	WG267167-05			WG267167-06			WG267167-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	5.00	27850.0000	0.1449	20.0	133435.000	0.1784	50.0	337277.000	0.1732
Dibromochloromethane	5.00	32362.0000	0.2056	20.0	139524.000	0.2215	50.0	375114.000	0.2299
Dibromomethane	5.00	20359.0000	0.1059	20.0	79010.0000	0.1056	50.0	203097.000	0.1043
Dichlorodifluoromethane	5.00	39439.0000	0.2052	20.0	218942.000	0.2928	50.0	534683.000	0.2745
Hexachlorobutadiene	5.00	38875.0000	0.4555	20.0	164928.000	0.4736	50.0	409159.000	0.4628
Isopropylbenzene	5.00	219706.000	1.396	20.0	888482.000	1.411	50.0	2199355.00	1.348
Methylene Chloride	5.00	45174.0000	0.2350	20.0	168483.000	0.2253	50.0	434932.000	0.2233
Naphthalene	5.00	123722.000	1.450	20.0	500443.000	1.437	50.0	1201934.00	1.360
Styrene	5.00	146637.000	0.9315	20.0	586909.000	0.9318	50.0	1455407.00	0.8921
Tetrachloroethene	5.00	37406.0000	0.2376	20.0	149959.000	0.2381	50.0	373076.000	0.2287
Trichloroethene	5.00	43065.0000	0.2240	20.0	175307.000	0.2344	50.0	444864.000	0.2284
Trichlorofluoromethane	5.00	59239.0000	0.3082	20.0	331308.000	0.4430	50.0	869669.000	0.4465
Vinyl Acetate	5.00	28404.0000	0.1478	20.0	134683.000	0.1801	50.0	390978.000	0.2007
cis-1,2-Dichloroethene	5.00	41718.0000	0.2170	20.0	155410.000	0.2078	50.0	409776.000	0.2104
cis-1,3-Dichloropropene	5.00	65444.0000	0.3404	20.0	263242.000	0.3520	50.0	684240.000	0.3513
m-,p-Xylene	10.0	183072.000	0.5814	40.0	711925.000	0.5651	100	1722300.00	0.5278
n-Butylbenzene	5.00	204076.000	2.391	20.0	843160.000	2.421	50.0	2051830.00	2.321
n-Propylbenzene	5.00	283321.000	3.320	20.0	1139955.00	3.273	50.0	2790851.00	3.157
o-Xylene	5.00	90111.0000	0.5724	20.0	357595.000	0.5677	50.0	891329.000	0.5463
p-Isopropyltoluene	5.00	212229.000	2.487	20.0	881834.000	2.532	50.0	2161392.00	2.445
sec-Butylbenzene	5.00	247655.000	2.902	20.0	1016135.00	2.918	50.0	2504891.00	2.833
tert-Butylbenzene	5.00	41184.0000	0.4826	20.0	167791.000	0.4818	50.0	422152.000	0.4775
trans-1,2-Dichloroethene	5.00	54943.0000	0.2858	20.0	207919.000	0.2780	50.0	548706.000	0.2817
trans-1,3-Dichloropropene	5.00	57773.0000	0.3670	20.0	231684.000	0.3678	50.0	597267.000	0.3661

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Login Number: L08040312
 Analytical Method: 8260B

Instrument ID: HPMS8
 Initial Calibration Date: 02-APR-08 18:28
 Column ID: F

Analyte	WG267167-08			WG267167-09			WG267167-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	100	669688.000	0.1687	200	1255491.00	0.1587	NA	NA	NA
Dibromochloromethane	100	776971.000	0.2374	200	1547631.00	0.2312	NA	NA	NA
Dibromomethane	100	409749.000	0.1032	200	802478.000	0.1015	NA	NA	NA
Dichlorodifluoromethane	100	1078466.00	0.2716	200	1984434.00	0.2509	NA	NA	NA
Hexachlorobutadiene	100	799807.000	0.4448	200	1459072.00	0.4055	NA	NA	NA
Isopropylbenzene	100	4124353.00	1.260	200	7169069.00	1.071	NA	NA	NA
Methylene Chloride	100	873454.000	0.2200	200	1642077.00	0.2076	NA	NA	NA
Naphthalene	100	2347476.00	1.306	200	4268620.00	1.186	NA	NA	NA
Styrene	100	2709493.00	0.8279	200	4792504.00	0.7159	NA	NA	NA
Tetrachloroethene	100	718186.000	0.2195	200	1313333.00	0.1962	NA	NA	NA
Trichloroethene	100	873476.000	0.2200	200	1623305.00	0.2052	NA	NA	NA
Trichlorofluoromethane	100	1811850.00	0.4564	200	3529657.00	0.4462	NA	NA	NA
Vinyl Acetate	100	875584.000	0.2205	200	1840357.00	0.2327	NA	NA	NA
cis-1,2-Dichloroethene	100	865312.000	0.2180	200	1662662.00	0.2102	NA	NA	NA
cis-1,3-Dichloropropene	100	1364034.00	0.3436	200	2628676.00	0.3323	NA	NA	NA
m-,p-Xylene	200	3155961.00	0.4822	400	5317550.00	0.3972	NA	NA	NA
n-Butylbenzene	100	3838475.00	2.135	200	6611280.00	1.838	NA	NA	NA
n-Propylbenzene	100	5113738.00	2.844	200	8726461.00	2.425	NA	NA	NA
o-Xylene	100	1676336.00	0.5122	200	3002948.00	0.4486	NA	NA	NA
p-Isopropyltoluene	100	4030758.00	2.242	200	6908085.00	1.920	NA	NA	NA
sec-Butylbenzene	100	4689877.00	2.608	200	8039914.00	2.235	NA	NA	NA
tert-Butylbenzene	100	805960.000	0.4482	200	1438035.00	0.3997	NA	NA	NA
trans-1,2-Dichloroethene	100	1161976.00	0.2927	200	2287097.00	0.2891	NA	NA	NA
trans-1,3-Dichloropropene	100	1209197.00	0.3695	200	2358173.00	0.3523	NA	NA	NA

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Login Number: L08040312 Run Date: 04/02/2008 Sample ID: WG267167-11
Instrument ID: HPMS8 Run Time: 20:05 Method: 8260B
File ID: 8M344074 Analyst: CMS QC Key: STD
Ical Workgroup: WG267167 Cal ID: HPMS8 - 02-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	21.0	ug/L	0.404	5.00	30	
1,1-Dichloroethene	CCC	20.0	20.1	ug/L	0.333	0.300	30	
1,2-Dichloropropane	CCC	20.0	20.8	ug/L	0.211	3.80	30	
Ethylbenzene	CCC	20.0	23.3	ug/L	0.473	16.3	30	
Toluene	CCC	20.0	22.1	ug/L	1.20	10.4	30	
Vinyl Chloride	CCC	20.0	23.1	ug/L	0.156	15.6	30	
Bromoform	SPCC	20.0	18.6	ug/L	0.121	7.10	30	
Chlorobenzene	SPCC	20.0	21.6	ug/L	0.815	8.10	30	
Chloromethane	SPCC	20.0	20.4	ug/L	0.204	1.80	30	
1,1-Dichloroethane	SPCC	20.0	21.2	ug/L	0.369	6.20	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	21.5	ug/L	0.370	7.70	30	
Acetone		20.0	22.1	ug/L	0.0352	10.5	30	
Benzene		20.0	21.8	ug/L	0.886	9.00	30	
Bromobenzene		20.0	21.6	ug/L	0.611	7.80	30	
Bromochloromethane		20.0	20.8	ug/L	0.122	3.80	30	
Bromodichloromethane		20.0	22.0	ug/L	0.307	10.2	30	
Bromomethane		20.0	19.4	ug/L	0.167	3.10	30	
2-Butanone		20.0	20.9	ug/L	0.0482	4.70	30	
n-Butylbenzene		20.0	23.3	ug/L	2.53	16.4	30	
sec-Butylbenzene		20.0	23.8	ug/L	3.09	18.9	30	
tert-Butylbenzene		20.0	23.5	ug/L	0.513	17.4	30	
Carbon Disulfide		20.0	18.7	ug/L	0.627	6.30	30	
Carbon Tetrachloride		20.0	20.3	ug/L	0.301	1.40	30	
Dibromochloromethane		20.0	21.6	ug/L	0.225	8.20	30	
Chloroethane		20.0	22.7	ug/L	0.181	13.6	30	
2-Chloroethyl Vinyl Ether		20.0	19.8	ug/L	0.0924	1.20	30	
2-Chlorotoluene		20.0	22.6	ug/L	2.29	13.2	30	
4-Chlorotoluene		20.0	21.7	ug/L	2.08	8.50	30	
1,2-Dibromo-3-Chloropropane		20.0	19.9	ug/L	0.0705	0.400	30	
1,2-Dibromoethane		20.0	20.5	ug/L	0.185	2.50	30	
Dibromomethane		20.0	20.7	ug/L	0.105	3.40	30	
1,2-Dichlorobenzene		20.0	21.0	ug/L	1.13	5.00	30	
1,3-Dichlorobenzene		20.0	21.4	ug/L	1.27	7.10	30	
1,4-Dichlorobenzene		20.0	21.0	ug/L	1.27	5.00	30	
Dichlorodifluoromethane		20.0	23.3	ug/L	0.325	16.3	30	
1,2-Dichloroethane		20.0	20.5	ug/L	0.273	2.70	30	
cis-1,2-Dichloroethene		20.0	21.9	ug/L	0.230	9.60	30	
trans-1,2-Dichloroethene		20.0	21.7	ug/L	0.296	8.40	30	
1,3-Dichloropropane		20.0	20.6	ug/L	0.336	3.20	30	
2,2-Dichloropropane		20.0	19.1	ug/L	0.334	4.30	30	
cis-1,3-Dichloropropene		20.0	20.3	ug/L	0.337	1.40	30	
trans-1,3-Dichloropropene		20.0	19.0	ug/L	0.336	5.10	30	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1074449
Report generated 04/23/2008 16:48



Login Number: L08040312 Run Date: 04/02/2008 Sample ID: WG267167-11
Instrument ID: HPMS8 Run Time: 20:05 Method: 8260B
File ID: 8M344074 Analyst: CMS QC Key: STD
Ical Workgroup: WG267167 Cal ID: HPMS8 - 02-APR-08

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	22.0	ug/L	0.314	10.1	30	
2-Hexanone	20.0	19.5	ug/L	0.0476	2.70	30	
Hexachlorobutadiene	20.0	22.1	ug/L	0.495	10.6	30	
Isopropylbenzene	20.0	21.6	ug/L	1.35	8.20	30	
p-Isopropyltoluene	20.0	23.0	ug/L	2.59	14.8	30	
4-Methyl-2-Pentanone	20.0	19.9	ug/L	0.0417	0.700	30	
Methylene Chloride	20.0	20.5	ug/L	0.235	2.50	30	
Naphthalene	20.0	21.4	ug/L	1.46	7.10	30	
n-Propylbenzene	20.0	23.6	ug/L	3.44	18.1	30	
Styrene	20.0	22.6	ug/L	0.966	13.0	30	
1,1,1,2-Tetrachloroethane	20.0	21.8	ug/L	0.267	9.00	30	
Tetrachloroethene	20.0	22.8	ug/L	0.239	13.8	30	
1,2,3-Trichlorobenzene	20.0	20.7	ug/L	0.749	3.60	30	
1,2,4-Trichlorobenzene	20.0	21.4	ug/L	0.897	7.00	30	
1,1,1-Trichloroethane	20.0	20.2	ug/L	0.372	1.00	30	
1,1,2-Trichloroethane	20.0	20.9	ug/L	0.181	4.70	30	
Trichloroethene	20.0	22.2	ug/L	0.239	10.8	30	
Trichlorofluoromethane	20.0	16.1	ug/L	0.355	19.3	30	
1,2,3-Trichloropropane	20.0	21.0	ug/L	0.118	4.90	30	
1,2,4-Trimethylbenzene	20.0	22.6	ug/L	2.59	13.0	30	
1,3,5-Trimethylbenzene	20.0	23.3	ug/L	2.51	16.3	30	
Vinyl Acetate	20.0	19.8	ug/L	0.177	1.00	40	
o-Xylene	20.0	22.4	ug/L	0.588	12.0	30	
m-,p-Xylene	40.0	45.7	ug/L	0.582	14.3	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08040312 Run Date: 04/18/2008 Sample ID: WG268834-02
Instrument ID: HPMS8 Run Time: 21:43 Method: 8260B
File ID: 8M344529 Analyst: CMS/ASP QC Key: STD
Workgroup (AAB#): WG268835 Cal ID: HPMS8 - 02-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	51.9	ug/L	0.399	3.82	20	
1,1-Dichloroethene	CCC	50.0	51.4	ug/L	0.348	2.82	20	
1,2-Dichloropropane	CCC	50.0	46.3	ug/L	0.189	7.33	20	
Ethylbenzene	CCC	50.0	54.0	ug/L	0.439	8.07	20	
Toluene	CCC	50.0	54.1	ug/L	1.18	8.26	20	
Vinyl Chloride	CCC	50.0	57.8	ug/L	0.156	15.6	20	
Bromoform	SPCC	50.0	44.4	ug/L	0.119	11.3	40	
Chlorobenzene	SPCC	50.0	50.2	ug/L	0.757	0.344	40	
Chloromethane	SPCC	50.0	47.1	ug/L	0.189	5.80	40	
1,1-Dichloroethane	SPCC	50.0	55.0	ug/L	0.383	10.0	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	51.3	ug/L	0.353	2.53	40	
Acetone		50.0	39.3	ug/L	0.0250	21.4	40	
Benzene		50.0	50.5	ug/L	0.821	1.01	40	
Bromobenzene		50.0	51.6	ug/L	0.584	3.12	40	
Bromochloromethane		50.0	45.3	ug/L	0.106	9.37	40	
Bromodichloromethane		50.0	50.0	ug/L	0.279	0.0674	40	
Bromomethane		50.0	45.1	ug/L	0.162	9.72	40	
2-Butanone		50.0	36.9	ug/L	0.0340	26.2	40	
n-Butylbenzene		50.0	57.9	ug/L	2.51	15.7	40	
sec-Butylbenzene		50.0	57.8	ug/L	3.01	15.7	40	
tert-Butylbenzene		50.0	55.8	ug/L	0.488	11.7	40	
Carbon Disulfide		50.0	51.1	ug/L	0.686	2.15	40	
Carbon Tetrachloride		50.0	53.5	ug/L	0.322	7.10	40	
Dibromochloromethane		50.0	52.2	ug/L	0.217	4.30	40	
Chloroethane		50.0	50.8	ug/L	0.162	1.51	40	
2-Chloroethyl Vinyl Ether		50.0	40.5	ug/L	0.0757	19.1	40	
2-Chlorotoluene		50.0	55.6	ug/L	2.25	11.1	40	
4-Chlorotoluene		50.0	56.1	ug/L	2.15	12.1	40	
1,2-Dibromo-3-Chloropropane		50.0	44.4	ug/L	0.0662	11.2	40	
1,2-Dibromoethane		50.0	46.0	ug/L	0.166	8.05	40	
Dibromomethane		50.0	44.6	ug/L	0.0907	10.8	40	
1,2-Dichlorobenzene		50.0	48.6	ug/L	1.05	2.81	40	
1,3-Dichlorobenzene		50.0	51.6	ug/L	1.23	3.17	40	
1,4-Dichlorobenzene		50.0	49.9	ug/L	1.20	0.241	40	
Dichlorodifluoromethane		50.0	43.8	ug/L	0.245	12.4	40	
1,2-Dichloroethane		50.0	48.1	ug/L	0.256	3.75	40	
cis-1,2-Dichloroethene		50.0	51.8	ug/L	0.218	3.69	40	
trans-1,2-Dichloroethene		50.0	57.6	ug/L	0.315	15.2	40	
1,3-Dichloropropane		50.0	46.3	ug/L	0.302	7.46	40	
2,2-Dichloropropane		50.0	54.4	ug/L	0.383	8.83	40	
cis-1,3-Dichloropropene		50.0	46.0	ug/L	0.305	8.08	40	
trans-1,3-Dichloropropene		50.0	50.4	ug/L	0.357	0.870	40	

CCV - Modified 03/05/2008
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Login Number: L08040312 Run Date: 04/18/2008 Sample ID: WG268834-02
Instrument ID: HPMS8 Run Time: 21:43 Method: 8260B
File ID: 8M344529 Analyst: CMS/ASP QC Key: STD
Workgroup (AAB#): WG268835 Cal ID: HPMS8 - 02-APR-08

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	55.2	ug/L	0.314	10.3	40	
2-Hexanone	50.0	37.7	ug/L	0.0369	24.6	40	
Hexachlorobutadiene	50.0	48.6	ug/L	0.435	2.83	40	
Isopropylbenzene	50.0	56.6	ug/L	1.41	13.2	40	
p-Isopropyltoluene	50.0	55.7	ug/L	2.51	11.5	40	
4-Methyl-2-Pentanone	50.0	36.7	ug/L	0.0308	26.7	40	
Methylene Chloride	50.0	44.7	ug/L	0.202	10.7	40	
Naphthalene	50.0	44.9	ug/L	1.23	10.2	40	
n-Propylbenzene	50.0	59.4	ug/L	3.46	18.8	40	
Styrene	50.0	51.2	ug/L	0.876	2.49	40	
1,1,1,2-Tetrachloroethane	50.0	52.7	ug/L	0.258	5.47	40	
Tetrachloroethene	50.0	56.4	ug/L	0.237	12.8	40	
1,2,3-Trichlorobenzene	50.0	44.1	ug/L	0.638	11.7	40	
1,2,4-Trichlorobenzene	50.0	47.2	ug/L	0.792	5.57	40	
1,1,1-Trichloroethane	50.0	52.4	ug/L	0.386	4.79	40	
1,1,2-Trichloroethane	50.0	46.7	ug/L	0.162	6.59	40	
Trichloroethene	50.0	49.9	ug/L	0.215	0.205	40	
Trichlorofluoromethane	50.0	48.8	ug/L	0.436	2.32	40	
1,2,3-Trichloropropane	50.0	49.3	ug/L	0.111	1.43	40	
1,2,4-Trimethylbenzene	50.0	54.7	ug/L	2.50	9.36	40	
1,3,5-Trimethylbenzene	50.0	57.4	ug/L	2.48	14.9	40	
Vinyl Acetate	50.0	44.9	ug/L	0.190	10.2	40	
o-Xylene	50.0	51.0	ug/L	0.536	2.07	40	
m-, p-Xylene	100	104	ug/L	0.529	3.98	40	
1,2-Dichloroethene	100	109	ug/L	0.266	9.43	40	
Xylenes	150	155	ug/L	0.533	3.35	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 1074451
Report generated 04/24/2008 15:59



Login Number: L08040312 Run Date: 04/19/2008 Sample ID: WG268848-02
Instrument ID: HPMS8 Run Time: 11:07 Method: 8260B
File ID: 8M344554 Analyst: CMS QC Key: STD
Workgroup (AAB#): WG268849 Cal ID: HPMS8 - 02-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	53.1	ug/L	0.409	6.29	20	
1,1-Dichloroethene	CCC	50.0	52.4	ug/L	0.355	4.75	20	
1,2-Dichloropropane	CCC	50.0	47.4	ug/L	0.193	5.15	20	
Ethylbenzene	CCC	50.0	53.1	ug/L	0.432	6.23	20	
Toluene	CCC	50.0	55.0	ug/L	1.20	10.0	20	
Vinyl Chloride	CCC	50.0	56.9	ug/L	0.153	13.7	20	
Bromoform	SPCC	50.0	47.7	ug/L	0.128	4.64	40	
Chlorobenzene	SPCC	50.0	50.3	ug/L	0.759	0.665	40	
Chloromethane	SPCC	50.0	47.3	ug/L	0.190	5.49	40	
1,1-Dichloroethane	SPCC	50.0	56.3	ug/L	0.392	12.6	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	52.9	ug/L	0.364	5.74	40	
Acetone		50.0	43.5	ug/L	0.0277	13.0	40	
Benzene		50.0	50.2	ug/L	0.816	0.474	40	
Bromobenzene		50.0	50.6	ug/L	0.573	1.20	40	
Bromochloromethane		50.0	45.5	ug/L	0.107	8.95	40	
Bromodichloromethane		50.0	51.2	ug/L	0.285	2.33	40	
Bromomethane		50.0	48.3	ug/L	0.174	3.48	40	
2-Butanone		50.0	42.7	ug/L	0.0394	14.6	40	
n-Butylbenzene		50.0	53.5	ug/L	2.32	6.94	40	
sec-Butylbenzene		50.0	53.7	ug/L	2.79	7.47	40	
tert-Butylbenzene		50.0	51.9	ug/L	0.454	3.73	40	
Carbon Disulfide		50.0	51.4	ug/L	0.690	2.87	40	
Carbon Tetrachloride		50.0	54.9	ug/L	0.329	9.71	40	
Dibromochloromethane		50.0	55.2	ug/L	0.230	10.3	40	
Chloroethane		50.0	51.3	ug/L	0.164	2.61	40	
2-Chloroethyl Vinyl Ether		50.0	43.4	ug/L	0.0812	13.2	40	
2-Chlorotoluene		50.0	55.6	ug/L	2.25	11.2	40	
4-Chlorotoluene		50.0	52.3	ug/L	2.01	4.63	40	
1,2-Dibromo-3-Chloropropane		50.0	44.2	ug/L	0.0658	11.7	40	
1,2-Dibromoethane		50.0	48.5	ug/L	0.175	2.99	40	
Dibromomethane		50.0	46.2	ug/L	0.0940	7.68	40	
1,2-Dichlorobenzene		50.0	47.1	ug/L	1.02	5.71	40	
1,3-Dichlorobenzene		50.0	50.2	ug/L	1.19	0.475	40	
1,4-Dichlorobenzene		50.0	49.0	ug/L	1.18	2.01	40	
Dichlorodifluoromethane		50.0	42.1	ug/L	0.236	15.9	40	
1,2-Dichloroethane		50.0	51.1	ug/L	0.272	2.30	40	
cis-1,2-Dichloroethene		50.0	52.1	ug/L	0.219	4.20	40	
trans-1,2-Dichloroethene		50.0	58.7	ug/L	0.320	17.3	40	
1,3-Dichloropropane		50.0	49.9	ug/L	0.325	0.244	40	
2,2-Dichloropropane		50.0	56.1	ug/L	0.394	12.2	40	
cis-1,3-Dichloropropene		50.0	46.6	ug/L	0.310	6.82	40	
trans-1,3-Dichloropropene		50.0	55.0	ug/L	0.389	9.92	40	

CCV - Modified 03/05/2008
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Login Number: L08040312 Run Date: 04/19/2008 Sample ID: WG268848-02
Instrument ID: HPMS8 Run Time: 11:07 Method: 8260B
File ID: 8M344554 Analyst: CMS QC Key: STD
Workgroup (AAB#): WG268849 Cal ID: HPMS8 - 02-APR-08

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	54.5	ug/L	0.310	8.96	40	
2-Hexanone	50.0	44.3	ug/L	0.0434	11.5	40	
Hexachlorobutadiene	50.0	42.9	ug/L	0.384	14.2	40	
Isopropylbenzene	50.0	55.7	ug/L	1.39	11.5	40	
p-Isopropyltoluene	50.0	51.6	ug/L	2.32	3.15	40	
4-Methyl-2-Pentanone	50.0	42.0	ug/L	0.0353	16.0	40	
Methylene Chloride	50.0	44.9	ug/L	0.203	10.3	40	
Naphthalene	50.0	41.2	ug/L	1.13	17.7	40	
n-Propylbenzene	50.0	56.4	ug/L	3.28	12.7	40	
Styrene	50.0	51.3	ug/L	0.877	2.62	40	
1,1,1,2-Tetrachloroethane	50.0	54.8	ug/L	0.268	9.67	40	
Tetrachloroethene	50.0	57.1	ug/L	0.240	14.3	40	
1,2,3-Trichlorobenzene	50.0	39.2	ug/L	0.566	21.6	40	
1,2,4-Trichlorobenzene	50.0	43.0	ug/L	0.722	13.9	40	
1,1,1-Trichloroethane	50.0	52.7	ug/L	0.388	5.35	40	
1,1,2-Trichloroethane	50.0	49.7	ug/L	0.172	0.592	40	
Trichloroethene	50.0	48.3	ug/L	0.208	3.49	40	
Trichlorofluoromethane	50.0	50.2	ug/L	0.448	0.326	40	
1,2,3-Trichloropropane	50.0	50.7	ug/L	0.114	1.41	40	
1,2,4-Trimethylbenzene	50.0	52.5	ug/L	2.40	4.94	40	
1,3,5-Trimethylbenzene	50.0	54.4	ug/L	2.35	8.82	40	
Vinyl Acetate	50.0	48.2	ug/L	0.205	3.63	40	
o-Xylene	50.0	51.1	ug/L	0.537	2.24	40	
m-, p-Xylene	100	104	ug/L	0.528	3.77	40	
1,2-Dichloroethene	100	111	ug/L	0.270	10.8	40	
Xylenes	150	155	ug/L	0.533	3.26	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds



Login Number: L08040312 Run Date: 04/21/2008 Sample ID: WG268934-02
Instrument ID: HPMS8 Run Time: 10:46 Method: 8260B
File ID: 8M344611 Analvst: CMS QC Key: STD
Workgroup (AAB#): WG268935 Cal ID: HPMS8 - 02-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	52.6	ug/L	0.405	5.24	20	
1,1-Dichloroethene	CCC	50.0	51.8	ug/L	0.351	3.62	20	
1,2-Dichloropropane	CCC	50.0	48.1	ug/L	0.196	3.81	20	
Ethylbenzene	CCC	50.0	52.9	ug/L	0.430	5.83	20	
Toluene	CCC	50.0	53.2	ug/L	1.16	6.44	20	
Vinyl Chloride	CCC	50.0	54.1	ug/L	0.146	8.25	20	
Bromoform	SPCC	50.0	49.0	ug/L	0.132	1.96	40	
Chlorobenzene	SPCC	50.0	49.5	ug/L	0.747	0.943	40	
Chloromethane	SPCC	50.0	41.7	ug/L	0.167	16.6	40	
1,1-Dichloroethane	SPCC	50.0	55.8	ug/L	0.388	11.5	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	54.1	ug/L	0.372	8.19	40	
Acetone		50.0	54.2	ug/L	0.0345	8.44	40	
Benzene		50.0	50.5	ug/L	0.821	1.01	40	
Bromobenzene		50.0	51.1	ug/L	0.579	2.24	40	
Bromochloromethane		50.0	47.3	ug/L	0.111	5.49	40	
Bromodichloromethane		50.0	51.6	ug/L	0.288	3.25	40	
Bromomethane		50.0	45.3	ug/L	0.163	9.35	40	
2-Butanone		50.0	48.1	ug/L	0.0444	3.71	40	
n-Butylbenzene		50.0	55.4	ug/L	2.40	10.8	40	
sec-Butylbenzene		50.0	54.9	ug/L	2.85	9.74	40	
tert-Butylbenzene		50.0	53.7	ug/L	0.469	7.36	40	
Carbon Disulfide		50.0	52.1	ug/L	0.699	4.12	40	
Carbon Tetrachloride		50.0	53.9	ug/L	0.323	7.72	40	
Dibromochloromethane		50.0	55.0	ug/L	0.229	10.1	40	
Chloroethane		50.0	51.6	ug/L	0.165	3.11	40	
2-Chloroethyl Vinyl Ether		50.0	46.7	ug/L	0.0873	6.65	40	
2-Chlorotoluene		50.0	53.7	ug/L	2.17	7.35	40	
4-Chlorotoluene		50.0	53.4	ug/L	2.05	6.75	40	
1,2-Dibromo-3-Chloropropane		50.0	48.6	ug/L	0.0727	2.88	40	
1,2-Dibromoethane		50.0	48.6	ug/L	0.175	2.90	40	
Dibromomethane		50.0	47.8	ug/L	0.0973	4.42	40	
1,2-Dichlorobenzene		50.0	48.5	ug/L	1.04	2.98	40	
1,3-Dichlorobenzene		50.0	50.8	ug/L	1.21	1.59	40	
1,4-Dichlorobenzene		50.0	49.7	ug/L	1.20	0.539	40	
Dichlorodifluoromethane		50.0	35.8	ug/L	0.201	28.3	40	
1,2-Dichloroethane		50.0	50.6	ug/L	0.269	1.23	40	
cis-1,2-Dichloroethene		50.0	52.8	ug/L	0.221	5.51	40	
trans-1,2-Dichloroethene		50.0	58.3	ug/L	0.319	16.6	40	
1,3-Dichloropropane		50.0	48.9	ug/L	0.319	2.22	40	
2,2-Dichloropropane		50.0	54.9	ug/L	0.386	9.74	40	
cis-1,3-Dichloropropene		50.0	47.7	ug/L	0.317	4.59	40	
trans-1,3-Dichloropropene		50.0	53.6	ug/L	0.379	7.12	40	

CCV - Modified 03/05/2008
PDF File ID: 1074451
Report generated 04/24/2008 15:59



Login Number: L08040312 Run Date: 04/21/2008 Sample ID: WG268934-02
Instrument ID: HPMS8 Run Time: 10:46 Method: 8260B
File ID: 8M344611 Analyst: CMS QC Key: STD
Workgroup (AAB#): WG268935 Cal ID: HPMS8 - 02-APR-08

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	55.1	ug/L	0.314	10.2	40	
2-Hexanone	50.0	48.0	ug/L	0.0470	3.99	40	
Hexachlorobutadiene	50.0	46.9	ug/L	0.420	6.12	40	
Isopropylbenzene	50.0	55.5	ug/L	1.38	10.9	40	
p-Isopropyltoluene	50.0	52.9	ug/L	2.38	5.86	40	
4-Methyl-2-Pentanone	50.0	45.5	ug/L	0.0382	8.91	40	
Methylene Chloride	50.0	46.5	ug/L	0.210	7.01	40	
Naphthalene	50.0	47.8	ug/L	1.31	4.46	40	
n-Propylbenzene	50.0	56.7	ug/L	3.30	13.3	40	
Styrene	50.0	51.4	ug/L	0.879	2.78	40	
1,1,1,2-Tetrachloroethane	50.0	53.5	ug/L	0.262	6.97	40	
Tetrachloroethene	50.0	55.6	ug/L	0.234	11.2	40	
1,2,3-Trichlorobenzene	50.0	46.1	ug/L	0.666	7.88	40	
1,2,4-Trichlorobenzene	50.0	47.9	ug/L	0.803	4.21	40	
1,1,1-Trichloroethane	50.0	52.2	ug/L	0.384	4.37	40	
1,1,2-Trichloroethane	50.0	49.1	ug/L	0.170	1.89	40	
Trichloroethene	50.0	49.6	ug/L	0.214	0.836	40	
Trichlorofluoromethane	50.0	48.1	ug/L	0.429	3.80	40	
1,2,3-Trichloropropane	50.0	51.1	ug/L	0.115	2.16	40	
1,2,4-Trimethylbenzene	50.0	52.7	ug/L	2.41	5.32	40	
1,3,5-Trimethylbenzene	50.0	54.6	ug/L	2.36	9.16	40	
Vinyl Acetate	50.0	46.9	ug/L	0.199	6.16	40	
o-Xylene	50.0	50.9	ug/L	0.534	1.74	40	
m-, p-Xylene	100	102	ug/L	0.520	2.19	40	
1,2-Dichloroethene	100	111	ug/L	0.270	11.1	40	
Xylenes	150	153	ug/L	0.527	2.04	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds



Login Number: L08040312
Instrument ID: HPMS8
Workgroup (AAB#): WG268835

CCV Number: WG268834-02
CAL ID: HPMS8 - 02-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268834-02	NA	NA	416349	823080	1102025
Upper Limit	NA	NA	832698	1646160	2204050
Lower Limit	NA	NA	208175	411540	551013
L08040312-01	50.0	DL01	440042	722916	1004714
L08040312-02	50.0	DL01	447861	748263	1048256
L08040312-03	50.0	DL01	423598	670771	924050
L08040312-04	50.0	DL01	429391	675377	966121
L08040312-10	1.00	01	382698	733080	999589
WG268835-01	1.00	01	412133	795763	1101355
WG268835-02	1.00	01	408881	775461	1031712
WG268835-03	1.00	01	428506	835914	1130488

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08040312
Instrument ID: HPMS8
Workgroup (AAB#): WG268849

CCV Number: WG268848-02
CAL ID: HPMS8 - 02-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268848-02	NA	NA	413847	796007	1120028
Upper Limit	NA	NA	827694	1592014	2240056
Lower Limit	NA	NA	206924	398004	560014
L08040312-01	200	DL02	331918	644066	885279
L08040312-02	500	DL02	319659	607847	840956
L08040312-03	250	DL02	300194	580125	801275
L08040312-04	500	DL02	288872	555419	753777
L08040312-05	2.50	DL01	279118	537361	735925
L08040312-06	20.0	DL01	271856	516485	707299
L08040312-07	1.00	01	355502	503484	672725
WG268849-01	1.00	01	361046	712511	1000746
WG268849-02	1.00	01	374781	727868	1011384
WG268849-03	1.00	01	375405	711299	959138

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08040312
Instrument ID: HPMS8
Workgroup (AAB#): WG268935

CCV Number: WG268934-02
CAL ID: HPMS8 - 02-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268934-02	NA	NA	431099	828749	1090156
Upper Limit	NA	NA	862198	1657498	2180312
Lower Limit	NA	NA	215550	414375	545078
L08040312-08	5.00	DL01	357876	684702	930228
L08040312-09	5.00	DL01	340698	659580	901422
WG268935-01	1.00	01	401228	791765	1105027
WG268935-02	1.00	01	403031	771788	1030280

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08040312
Instrument ID: HPMS8
Workgroup (AAB#): WG268835

CCV Number: WG268834-02
CAL ID: HPMS8 - 02-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268834-02	NA	NA	17.89	14.87	10.99
Upper Limit	NA	NA	18.39	15.37	11.49
Lower Limit	NA	NA	17.39	14.37	10.49
L08040312-01	50.0	DL01	17.89	14.87	10.99
L08040312-02	50.0	DL01	17.88	14.86	10.99
L08040312-03	50.0	DL01	17.89	14.87	10.99
L08040312-04	50.0	DL01	17.88	14.86	10.99
L08040312-10	1.00	01	17.89	14.87	10.99
WG268835-01	1.00	01	17.89	14.87	10.99
WG268835-02	1.00	01	17.89	14.87	10.99
WG268835-03	1.00	01	17.88	14.86	10.99

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08040312
Instrument ID: HPMS8
Workgroup (AAB#): WG268849

CCV Number: WG268848-02
CAL ID: HPMS8 - 02-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268848-02	NA	NA	17.89	14.86	10.99
Upper Limit	NA	NA	18.39	15.36	11.49
Lower Limit	NA	NA	17.39	14.36	10.49
L08040312-01	200	DL02	17.89	14.87	10.99
L08040312-02	500	DL02	17.88	14.86	10.99
L08040312-03	250	DL02	17.88	14.86	10.99
L08040312-04	500	DL02	17.88	14.86	10.99
L08040312-05	2.50	DL01	17.89	14.86	10.99
L08040312-06	20.0	DL01	17.88	14.86	10.99
L08040312-07	1.00	01	17.89	14.87	10.99
WG268849-01	1.00	01	17.89	14.87	10.99
WG268849-02	1.00	01	17.89	14.86	10.99
WG268849-03	1.00	01	17.89	14.86	10.99

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08040312
Instrument ID: HPMS8
Workgroup (AAB#): WG268935

CCV Number: WG268934-02
CAL ID: HPMS8 - 02-APR-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG268934-02	NA	NA	17.89	14.87	10.99
Upper Limit	NA	NA	18.39	15.37	11.49
Lower Limit	NA	NA	17.39	14.37	10.49
L08040312-08	5.00	DL01	17.89	14.87	10.99
L08040312-09	5.00	DL01	17.88	14.86	10.99
WG268935-01	1.00	01	17.89	14.87	10.99
WG268935-02	1.00	01	17.89	14.87	10.99

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

2.2 General Chemistry Data

2.2.1 Method 9056

2.2.1.1 Summary Data

LABORATORY REPORT

00086305

L08040312

04/24/08 16:54

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I. Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Larry Duty

Project Number: 2773.025
Project: Longhorn AAP
Site: QUARTERLY EFFLUENT SAMPLES

P.O. Number: 389869**Sample Analysis Summary**

Client ID	Lab ID	Method	Dilution	Date Received
EXT1-040908	L08040312-01	300.0	100	10-APR-08
EXT2-040908	L08040312-02	300.0	100	10-APR-08
EXT3-040908	L08040312-03	300.0	50	10-APR-08
EXT4-040908	L08040312-04	300.0	100	10-APR-08
EXT5-040908	L08040312-05	300.0	100	10-APR-08
EXT6-040908	L08040312-06	300.0	100	10-APR-08
EXT7-040908	L08040312-07	300.0	80	10-APR-08
EXT8-040908	L08040312-08	300.0	25	10-APR-08
EXT8-040908-FD	L08040312-09	300.0	25	10-APR-08



Report Number: **L08040312**Report Date : **April 24, 2008****00086306**

Sample Number: **L08040312-01**
Client ID: **EXT1-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:00**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **100**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 12:16**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 12:16**
File ID: **I10411081216.07**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	833		20.0	10.0

1 of 9



Report Number: **L08040312**Report Date : **April 24, 2008****00086307**

Sample Number: **L08040312-02**
Client ID: **EXT2-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:15**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **100**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 12:51**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 12:51**
File ID: **I10411081251.09**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	611		20.0	10.0

Report Number: **L08040312**Report Date : **April 24, 2008****00086308**

Sample Number: **L08040312-03**
Client ID: **EXT3-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **50**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 13:08**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 13:08**
File ID: **I10411081308.10**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	355		10.0	5.00

3 of 9



Report Number: **L08040312**Report Date : **April 24, 2008****00086309**

Sample Number: **L08040312-04**
Client ID: **EXT4-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:45**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **100**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 13:26**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 13:26**
File ID: **I10411081326.11**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	682		20.0	10.0

Report Number: **L08040312**Report Date : **April 24, 2008**

00086310

Sample Number: **L08040312-05**
Client ID: **EXT5-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:05**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **100**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 13:43**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 13:43**
File ID: **I10411081343.12**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	285		20.0	10.0

Report Number: **L08040312**Report Date : **April 24, 2008**

00086311

Sample Number: **L08040312-06**
Client ID: **EXT6-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **100**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 14:01**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 14:01**
File ID: **I10411081401.13**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	793		20.0	10.0

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Report Number: **L08040312**Report Date : **April 24, 2008****00086312**

Sample Number: **L08040312-07**
Client ID: **EXT7-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **80**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 14:18**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 14:18**
File ID: **I10411081418.14**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	533		16.0	8.00



Report Number: **L08040312**Report Date : **April 24, 2008**

00086313

Sample Number: **L08040312-08**
Client ID: **EXT8-040908**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **25**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 15:10**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 15:10**
File ID: **I10411081510.17**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	158		5.00	2.50

Report Number: **L08040312**
Report Date : **April 24, 2008**

00086314

Sample Number: **L08040312-09**
Client ID: **EXT8-040908-FD**
Matrix: **Water**
Workgroup Number: **WG268373**
Collect Date: **04/09/2008 08:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **300.0**
Analytical Method: **300.0**
Analyst: **DSF**
Dilution: **25**
Units: **mg/L**

Instrument: **IC1**
Prep Date: **04/11/2008 15:28**
Cal Date: **04/01/2008 10:00**
Run Date: **04/11/2008 15:28**
File ID: **I10411081528.18**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	156		5.00	2.50

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2.2.1.2 QC Summary Data

The concentrations (ppm) of the calibration standards and the resulting area counts are used to determine the equation of a linear or quadratic plot.

The slope and y-intercept of that line are used to calculate the quantity of the analyzed unknown samples.

$\text{Amount(ppm)} = [(\text{slope})(\text{area count of unknown}) + \text{y-intercept}](\text{dilution})$

(The slope is the amt/area also identified as the CF or calibration factor)

Microbac Laboratories Inc.

Instrument Run Log

Instrument: IC1 Dataset: 040108 9056 CURVE IC1.S
 Analyst1: DSF Analyst2: NA
 Method: 300/9056 SOP: IC1 Rev: 7

Maintenance Log ID: 23492

Column 1 ID: AS14A-4MM Column 2 ID: NA
 Workgroups: WG267030
 Internal STD: NA Surrogate STD: NA Calibration STD: STD24336

Comments: This is a method 300/9056 Calibration Curve.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	I10401080833.01	WG267030-01 STD \#1	1	1		04/01/08 08:33
2	I10401080850.02	WG267030-02 STD \#2	1	1		04/01/08 08:50
3	I10401080908.03	WG267030-03 STD \#3	1	1		04/01/08 09:08
4	I10401080925.04	WG267030-04 STD \#4	1	1		04/01/08 09:25
5	I10401080942.05	WG267030-05 STD \#5	1	1		04/01/08 09:42
6	I10401081000.06	WG267030-06 STD \#6	1	1		04/01/08 10:00
7	I10401081017.07	WG267030-07 ALT STD	1	1		04/01/08 10:17

Comments

Seq.	Rerun	Dil.	Reason	Analytes




Microbac Laboratories Inc.

Instrument Run Log

Instrument: IC1 Dataset: 041108 9056 IC1.SEQ
 Analyst1: DSF Analyst2: NA
 Method: 300/9056 SOP: IC1 Rev: 7

Maintenance Log ID: 23676

Workgroups: WG268373 Column 1 ID: AS14A-4MM Column 2 ID: NA
 Internal STD: NA Surrogate STD: NA Calibration STD: STD24336

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	I10411080940.01	ELUENT	1	1		04/11/08 09:40
2	I10411080957.02	DI WATER	1	1		04/11/08 09:57
3	I10411081014.03	WG268374-01 ANION CCV	1	1		04/11/08 10:14
4	I10411081032.04	WG268374-02 ANION CCB	1	1		04/11/08 10:32
5	I10411081049.05	WG268373-01 ANION BLANK	1	1		04/11/08 10:49
6	I10411081107.06	WG268373-02 ANION LCS	1	1		04/11/08 11:07
7	I10411081216.07	L08040312-01 (CI Only) 1/100 REF	1	100		04/11/08 12:16
8	I10411081234.08	WG268373-04 DUP 312-01 1/100	1	100		04/11/08 12:34
9	I10411081251.09	L08040312-02 (CI Only) 1/100	1	100		04/11/08 12:51
10	I10411081308.10	L08040312-03 (CI Only) 1/50	1	50		04/11/08 13:08
11	I10411081326.11	L08040312-04 (CI Only) 1/100	1	100		04/11/08 13:26
12	I10411081343.12	L08040312-05 (CI Only) 1/100	1	100		04/11/08 13:43
13	I10411081401.13	L08040312-06 (CI Only) 1/100	1	100		04/11/08 14:01
14	I10411081418.14	L08040312-07 (CI Only) 1/80	1	80		04/11/08 14:18
15	I10411081435.15	WG268374-03 ANION CCV	1	1		04/11/08 14:35
16	I10411081453.16	WG268374-04 ANION CCB	1	1		04/11/08 14:53
17	I10411081510.17	L08040312-08 (CI Only) 1/25	1	25		04/11/08 15:10
18	I10411081528.18	L08040312-09 (CI Only) 1/25	1	25		04/11/08 15:28
19	I10411081545.19	L08040342-02 (CI, NO2, NO3, SO4)	1	1		04/11/08 15:45
20	I10411081602.20	L08040342-06 (CI, NO2, NO3, SO4)	1	1		04/11/08 16:02
21	I10411081620.21	L08040342-07 (CI, NO2, NO3, SO4)	1	1		04/11/08 16:20
22	I10411081637.22	L08040342-03 (CI, NO2, NO3, SO4) REF	1	1		04/11/08 16:37
23	I10411081655.23	WG268373-06 DUP 342-03	1	1		04/11/08 16:55
24	I10411081712.24	L08040342-04 MS	1	1		04/11/08 17:12
25	I10411081730.25	L08040342-05 MSD	1	1		04/11/08 17:30
26	I10411081747.26	WG268374-05 ANION CCV	1	1		04/11/08 17:47
27	I10411081804.27	WG268374-06 ANION CCB	1	1		04/11/08 18:04

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 1

Approved: 16-APR-08

Michael Cohen



Data Checklist

Date: 01 - APR - 2008
 Analyst: DSF
 Analyst: NA
 Method: 300/9056
 Instrument: IC1
 Curve Workgroup: NA
 Runlog ID: 21398
 Analytical Workgroups: THIS IS A METHOD 300/9056 CALIBRATION CURVE

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	X
Window standard (FID)	NA
Initial Calibration	X
Average RF	NA
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	DSF
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
01 - APR - 2008

Debra S. Frederick

Secondary Reviewer:
03 - APR - 2008

Michael Cohen

Data Checklist

Date: 11-APR-2008
 Analyst: DSF
 Analyst: NA
 Method: 300/9056
 Instrument: IC1
 Curve Workgroup: NA
 Runlog ID: 21612
 Analytical Workgroups: L08040312, L08040342

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	X
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	X
Special standards	NA
Blanks	X
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	DSF
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
15-APR-2008

Debra S. Frederick

Secondary Reviewer:
16-APR-2008

Michael Cohen

Analytical Method: 300.0
Login Number: L08040312

AAB#: WG268373

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT7-040908	04/09/08	04/10/08	04/11/08	28	2.24	04/11/08	28	2.24	
EXT8-040908	04/09/08	04/10/08	04/11/08	28	2.26	04/11/08	28	2.26	
EXT3-040908	04/09/08	04/10/08	04/11/08	28	2.19	04/11/08	28	2.19	
EXT2-040908	04/09/08	04/10/08	04/11/08	28	2.19	04/11/08	28	2.19	
EXT8-040908-FD	04/09/08	04/10/08	04/11/08	28	2.28	04/11/08	28	2.28	
EXT4-040908	04/09/08	04/10/08	04/11/08	28	2.20	04/11/08	28	2.20	
EXT6-040908	04/09/08	04/10/08	04/11/08	28	2.24	04/11/08	28	2.24	
EXT5-040908	04/09/08	04/10/08	04/11/08	28	2.23	04/11/08	28	2.23	
EXT1-040908	04/09/08	04/10/08	04/11/08	28	2.18	04/11/08	28	2.18	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

METHOD BLANK SUMMARY

Login Number: L08040312	Work Group: WG268373
Blank File ID: I10411081049.05	Blank Sample ID: WG268373-01
Prep Date: 04/11/08 10:49	Instrument ID: IC1
Analyzed Date: 04/11/08 10:49	Method: 300.0
Analyst: DSF	

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG268373-02	I10411081107.06	04/11/08 11:07	01
EXT1-040908	L08040312-01	I10411081216.07	04/11/08 12:16	DL01
DUP	WG268373-04	I10411081234.08	04/11/08 12:34	DL01
EXT2-040908	L08040312-02	I10411081251.09	04/11/08 12:51	DL01
EXT3-040908	L08040312-03	I10411081308.10	04/11/08 13:08	DL01
EXT4-040908	L08040312-04	I10411081326.11	04/11/08 13:26	DL01
EXT5-040908	L08040312-05	I10411081343.12	04/11/08 13:43	DL01
EXT6-040908	L08040312-06	I10411081401.13	04/11/08 14:01	DL01
EXT7-040908	L08040312-07	I10411081418.14	04/11/08 14:18	DL01
EXT8-040908	L08040312-08	I10411081510.17	04/11/08 15:10	DL01
EXT8-040908-FD	L08040312-09	I10411081528.18	04/11/08 15:28	DL01
DUP	WG268373-06	I10411081655.23	04/11/08 16:55	01

Report Name: BLANK_SUMMARY
 PDF File ID: 1064971
 Report generated 04/16/2008 11:06



METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/11/08 10:49 Sample ID: WG268373-01
Instrument ID: IC1 Run Date: 04/11/08 10:49 Prep Method: 300.0
File ID: I10411081049.05 Analyst: DSF Method: 300.0
Workgroup (AAB#): WG268373 Matrix: Water Units: mg/L
Contract #: DACA56-94-D-0020 Cal ID: IC1-01-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Chloride	0.100	0.200	0.100	1	U

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* Analyte concentration > RL

Report Name: BLANK

PDF ID: 1064972

16-APR-2008 11:06



Login Number: L08040312 Run Date: 04/11/2008 Sample ID: WG268373-02
Instrument ID: IC1 Run Time: 11:07 Prep Method: 300.0
File ID: I10411081107.06 Analyst: DSF Method: 300.0
Workgroup (AAB#): WG268373 Matrix: Water Units: mg/L
QC Key: STD Lot#: STD24336 Cal ID: IC1-01-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Chloride	6.00	5.93	98.9	90 - 110	



DUPLICATE (DUP)

Sample Ref: L08040312-01 Cal ID: IC1 - Worknum: WG268373
Instrument ID: IC1 Method: 9056
Sample ID: WG268373-03 File ID: I10411081216.07 Dil: 100 Matrix: WATER
Duplicate ID: WG268373-04 File ID: I10411081234.08 Dil: 100 Units: mg/L

Analyte	Sample	Duplicate	RPD	RPD Limit	Q
Chloride	833	830	0.385	20	

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

Login Number: L08040312
Analytical Method: 300.0
ICAL Workgroup: WG267030

Instrument ID: IC1
Initial Calibration Date: 01-APR-08 10:00
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD(R ²)
Chloride		4.267	7.94		

R = Correlation coefficient; 0.995 minimum

R² = Coefficient of determination; 0.99 minimum

This method always uses quadratic calibration model (R²)

Login Number: L08040312Instrument ID: IC1Analytical Method: 300.0Initial Calibration Date: 01-APR-08 10:00Column ID: F

Analyte	WG267030-01			WG267030-02			WG267030-03		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloride	0.200	0.054000000	3.704	2.00	0.441000000	4.535	4.00	0.889000000	4.499
		0							

INT_CAL - Modified 03/06/2008

PDF File ID: 1065809

Report generated 04/16/2008 11:06



Login Number:L08040312

Instrument ID:IC1

Analytical Method:300.0

Initial Calibration Date:01-APR-08 10:00

Column ID:F

Analyte	WG267030-04			WG267030-05			WG267030-06		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloride	6.00	1.35100000	4.441	8.00	1.86400000	4.292	12.0	2.90400000	4.132

INT_CAL - Modified 03/06/2008

PDF File ID: 1065809

Report generated 04/16/2008 11:06



Login Number: L08040312 Run Date: 04/01/2008 Sample ID: WG267030-07
Instrument ID: IC1 Run Time: 10:17 Method: 300.0
File ID: I10401081017.07 Analyst: DSF QC Key: STD
Ical Workgroup: WG267030 Cal ID: IC1 - 01-APR-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloride		6.00	6.16	mg/L	4.29	2.70	10	

* Exceeds %D Limit

Login Number: L08040312 Run Date: 04/11/2008 Sample ID: WG268374-02
Instrument ID: IC1 Run Time: 10:32 Method: 300.0
File ID: I10411081032.04 Analyst: DSF Units: mg/L
Workgroup (AAB#): WG268373 Cal ID: IC1 -
Matrix: WATER

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Chloride	0.100	0.200	0		U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08040312 Run Date: 04/11/2008 Sample ID: WG268374-04
Instrument ID: IC1 Run Time: 14:53 Method: 300.0
File ID: I10411081453.16 Analyst: DSF Units: mg/L
Workgroup (AAB#): WG268373 Cal ID: IC1 -
Matrix: WATER

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Chloride	0.100	0.200	0		U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08040312 Run Date: 04/11/2008 Sample ID: WG268374-06
Instrument ID: IC1 Run Time: 18:04 Method: 300.0
File ID: I10411081804.27 Analyst: DSF Units: mg/L
Workgroup (AAB#): WG268373 Cal ID: IC1 -
Matrix: WATER

Analytes	MDL	RDL	Concentration	Dilution	Qualifier
Chloride	0.100	0.200	0		U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08040312 Run Date: 04/11/2008 Sample ID: WG268374-01
Instrument ID: IC1 Run Time: 10:14 Method: 300.0
File ID: I10411081014.03 Analvst: DSF QC Key: STD
Workgroup (AAB#): WG268373 Cal ID: IC1 - 01-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloride		6.00	5.91	mg/L	4.76	1.55	10	

* Exceeds %D Criteria



Login Number: L08040312 Run Date: 04/11/2008 Sample ID: WG268374-03
Instrument ID: IC1 Run Time: 14:35 Method: 300.0
File ID: I10411081435.15 Analvst: DSF QC Key: STD
Workgroup (AAB#): WG268373 Cal ID: IC1 - 01-APR-08

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
Chloride	6.00	5.80	mg/L	4.86	3.35	10	

* Exceeds %D Criteria

Login Number: L08040312 Run Date: 04/11/2008 Sample ID: WG268374-05
Instrument ID: IC1 Run Time: 17:47 Method: 300.0
File ID: I10411081747.26 Analvst: DSF QC Key: STD
Workgroup (AAB#): WG268373 Cal ID: IC1 - 01-APR-08

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloride		6.00	5.74	mg/L	4.92	4.40	10	

* Exceeds %D Criteria



2.2.2 Perchlorate Data

2.2.2.1 Summary Data

LABORATORY REPORT

00086338

L08040312

04/24/08 16:54

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I. Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Larry Duty

Project Number: 2773.025
Project: Longhorn AAP
Site: QUARTERLY EFFLUENT SAMPLES

P.O. Number: 389869

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
EXT1-040908	L08040312-01	314.0	12	10-APR-08
EXT2-040908	L08040312-02	314.0	6	10-APR-08
EXT3-040908	L08040312-03	314.0	4	10-APR-08
EXT4-040908	L08040312-04	314.0	6	10-APR-08
EXT5-040908	L08040312-05	314.0	5	10-APR-08
EXT6-040908	L08040312-06	314.0	12	10-APR-08
EXT7-040908	L08040312-07	314.0	6	10-APR-08
EXT8-040908	L08040312-08	314.0	2	10-APR-08
EXT8-040908-FD	L08040312-09	314.0	2	10-APR-08



Report Number: **L08040312**Report Date : **April 24, 2008****00086339**

Sample Number: **L08040312-01**
Client ID: **EXT1-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:00**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **12**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 19:55**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 19:55**
File ID: **I10415081955.32**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0	698		12.0	6.00

1 of 9



Report Number: **L08040312**Report Date : **April 24, 2008**

00086340

Sample Number: **L08040312-02**
Client ID: **EXT2-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:15**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **6**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 17:12**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 17:12**
File ID: **I10415081712.24**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0		U	6.00	3.00

U Not detected at or above adjusted sample detection limit

Report Number: **L08040312**Report Date : **April 24, 2008**

00086341

Sample Number: **L08040312-03**
Client ID: **EXT3-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **4**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 17:32**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 17:32**
File ID: **I10415081732.25**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0		U	4.00	2.00

U Not detected at or above adjusted sample detection limit

3 of 9



Report Number: **L08040312**Report Date : **April 24, 2008**

00086342

Sample Number: **L08040312-04**
Client ID: **EXT4-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:45**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **6**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 17:53**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 17:53**
File ID: **I10415081753.26**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0		U	6.00	3.00

U Not detected at or above adjusted sample detection limit

Report Number: **L08040312**Report Date : **April 24, 2008**

00086343

Sample Number: **L08040312-05**
Client ID: **EXT5-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:05**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **5**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 18:13**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 18:13**
File ID: **I10415081813.27**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0	288		5.00	2.50

5 of 9



Report Number: **L08040312**Report Date : **April 24, 2008**

00086344

Sample Number: **L08040312-06**
Client ID: **EXT6-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **12**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 18:33**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 18:33**
File ID: **I10415081833.28**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0	100		12.0	6.00

6 of 9



Report Number: **L08040312**Report Date : **April 24, 2008**

00086345

Sample Number: **L08040312-07**
Client ID: **EXT7-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **6**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 18:54**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 18:54**
File ID: **I10415081854.29**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0		U	6.00	3.00

U Not detected at or above adjusted sample detection limit

Report Number: **L08040312**Report Date : **April 24, 2008**

00086346

Sample Number: **L08040312-08**
Client ID: **EXT8-040908**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **2**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 19:14**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 19:14**
File ID: **I10415081914.30**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0	122		2.00	1.00

8 of 9



Report Number: **L08040312**Report Date : **April 24, 2008**

00086347

Sample Number: **L08040312-09**
Client ID: **EXT8-040908-FD**
Matrix: **Water**
Workgroup Number: **WG268465**
Collect Date: **04/09/2008 08:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **314.0**
Analytical Method: **314.0**
Analyst: **DSF**
Dilution: **2**
Units: **ug/L**

Instrument: **IC1**
Prep Date: **04/15/2008 19:35**
Cal Date: **04/15/2008 10:12**
Run Date: **04/15/2008 19:35**
File ID: **I10415081935.31**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Perchlorate	14797-73-0	109		2.00	1.00

9 of 9



2.2.2.2 QC Summary Data

The concentrations (ppm) of the calibration standards and the resulting area counts are used to determine the equation of a linear or quadratic plot.

The slope and y-intercept of that line are used to calculate the quantity of the analyzed unknown samples.

$\text{Amount(ppm)} = [(\text{slope})(\text{area count of unknown}) + \text{y-intercept}](\text{dilution})$

(The slope is the amt/area also identified as the CF or calibration factor)

Microbac Laboratories Inc.

Instrument Run Log

Instrument: IC1 Dataset: 040108 9056 CURVE IC1.S
Analyst1: DSF Analyst2: NA
Method: 300/9056 SOP: IC1 Rev: 7

Maintenance Log ID: 23492

Column 1 ID: AS14A-4MM Column 2 ID: NA
Workgroups: WG267030
Internal STD: NA Surrogate STD: NA Calibration STD: STD24336

Comments: This is a method 300/9056 Calibration Curve.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	I10401080833.01	WG267030-01 STD \#1	1	1		04/01/08 08:33
2	I10401080850.02	WG267030-02 STD \#2	1	1		04/01/08 08:50
3	I10401080908.03	WG267030-03 STD \#3	1	1		04/01/08 09:08
4	I10401080925.04	WG267030-04 STD \#4	1	1		04/01/08 09:25
5	I10401080942.05	WG267030-05 STD \#5	1	1		04/01/08 09:42
6	I10401081000.06	WG267030-06 STD \#6	1	1		04/01/08 10:00
7	I10401081017.07	WG267030-07 ALT STD	1	1		04/01/08 10:17

Comments

Seq.	Rerun	Dil.	Reason	Analytes



Microbac Laboratories Inc.

Instrument Run Log

Instrument: IC1 Dataset: 041508 CLO4 IC1.SEQ
 Analyst1: DSF Analyst2: NA
 Method: CLO4 SOP: IC2 Rev: 4

Maintenance Log ID: 23695

Column 1 ID: AS16-4MM Column 2 ID: NA
 Workgroups: WG268465
 Internal STD: NA Surrogate STD: NA Calibration STD: STD20008

Comments: All samples from L08040228, L08040279, L08040303 and L08040312 were analyzed at a dilution only due to high conductivity readings.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	I10415080830.01	CLO4 @ 100 ppb	1	1		04/15/08 08:30
2	I10415080851.02	CLO4 @ 50 ppb	1	1		04/15/08 08:51
3	I10415080911.03	CLO4 @ 25 ppb	1	1		04/15/08 09:11
4	I10415080932.04	CLO4 @ 10 ppb	1	1		04/15/08 09:32
5	I10415080952.05	CLO4 @ 4 ppb	1	1		04/15/08 09:52
6	I10415081012.06	CLO4 @ 1 ppb	1	1		04/15/08 10:12
7	I10415081033.07	CLO4 ALT @ 25 ppb	1	1		04/15/08 10:33
8	I10415081053.08	ELUENT	1	1		04/15/08 10:53
9	I10415081120.09	MCT 6 (@25 ppb)	1	1		04/15/08 11:20
10	I10415081140.10	MCT 6 (@25 ppb)	1	1		04/15/08 11:40
11	I10415081225.11	CCV (1 ppb) CLO4	1	1		04/15/08 12:25
12	I10415081247.12	WG268465-01 BLANK	1	1		04/15/08 12:47
13	I10415081325.13	WG268465-02 LCS (25 ppb)	1	1		04/15/08 13:25
14	I10415081345.14	L08040228-01 1/3 REF	1	3		04/15/08 13:45
15	I10415081407.15	WG268465-04 DUP 228-01 1/3	1	3		04/15/08 14:07
16	I10415081427.16	WG268465-05 MS 228-01 1/3	1	3		04/15/08 14:27
17	I10415081449.17	WG268465-06 MSD 228-01 1/3	1	3		04/15/08 14:49
18	I10415081509.18	L08040228-03 1/3	1	3		04/15/08 15:09
19	I10415081530.19	L08040279-01 1/3	1	3		04/15/08 15:30
20	I10415081550.20	L08040279-02 1/3	1	3		04/15/08 15:50
21	I10415081611.21	L08040303-01 1/2	1	2		04/15/08 16:11
22	I10415081631.22	CCV (25 ppb) CLO4	1	1		04/15/08 16:31
23	I10415081651.23	L08040312-01 1/6	1	6		04/15/08 16:51
24	I10415081712.24	L08040312-02 1/6	1	6		04/15/08 17:12
25	I10415081732.25	L08040312-03 1/4	1	4		04/15/08 17:32
26	I10415081753.26	L08040312-04 1/6	1	6		04/15/08 17:53
27	I10415081813.27	L08040312-05 1/5	1	5		04/15/08 18:13
28	I10415081833.28	L08040312-06 1/12	1	12		04/15/08 18:33
29	I10415081854.29	L08040312-07 1/6	1	6		04/15/08 18:54
30	I10415081914.30	L08040312-08 1/2	1	2		04/15/08 19:14
31	I10415081935.31	L08040312-09 1/2	1	2		04/15/08 19:35
32	I10415081955.32	L08040312-01 RR 1/12	1	12		04/15/08 19:55
33	I10416080716.34	CCV (50 ppb) CLO4	1	1		04/16/08 07:16

Comments

Page: 1

Approved: 16-APR-08

Michael Cohen



Microbac Laboratories Inc.

Instrument Run Log

Instrument: IC1 Dataset: 041508 CLO4 IC1.SEQ
Analyst1: DSF Analyst2: NA
Method: CLO4 SOP: IC2 Rev: 4

Maintenance Log ID: 23695

Column 1 ID: AS16-4MM Column 2 ID: NA
Workgroups: WG268465
Internal STD: NA Surrogate STD: NA STD20008

Comments

Seq.	Rerun	Dil.	Reason	Analytes
23	X	12	Over Calibration Range	Perchlorate



Data Checklist

Date: 01 - APR - 2008
Analyst: DSF
Analyst: NA
Method: 300/9056
Instrument: IC1
Curve Workgroup: NA
Runlog ID: 21398
Analytical Workgroups: THIS IS A METHOD 300/9056 CALIBRATION CURVE

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	X
Window standard (FID)	NA
Initial Calibration	X
Average RF	NA
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	NA
% D/% Drift	NA
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	NA
TCL hits	NA
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	NA
Recoveries	NA
Surrogate recoveries	NA
MS/MSD/Sample duplicates	NA
Recoveries	NA
%RPD	NA
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	NA
Check for completeness	X
Primary Reviewer	DSF
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
01 - APR - 2008

Debra S. Frederick

Secondary Reviewer:
03 - APR - 2008

Michael Cohen

Data Checklist

Date: 15-APR-2008
 Analyst: DSF
 Analyst: NA
 Method: CLO4
 Instrument: IC1
 Curve Workgroup: NA
 Runlog ID: 21634
 Analytical Workgroups: L08040228, L08040279, L08040303, L08040312

ANALYTICAL	
System Performance Check	X
DFTPP (MS)	NA
Endrin/DDT breakdown (8081/MS)	NA
Pentachlorophenol/benzidine tailing (MS)	NA
Eluent check (IC)/system pressure (HPLC)	X
Window standard (FID)	NA
Initial Calibration	X
Average RF	NA
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (MS)	NA
Continuing calibration blank (CCB) (IC)	NA
Special standards	NA
Blanks	X
TCL hits	X
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	NA
Library searches (MS)	NA
Calculations & correct factors	X
Compounds above calibration range	X
Reruns	X
Manual integrations	X
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	X
Check for completeness	X
Primary Reviewer	DSF
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MDC

Primary Reviewer:
16-APR-2008

Debra S. Frederick

Secondary Reviewer:
16-APR-2008

Michael Cohen

Analytical Method: 314.0
Login Number: L08040312

AAB#: WG268465

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT7-040908	04/09/08	04/10/08	04/15/08	28	6.43	04/15/08	28	6.43	
EXT5-040908	04/09/08	04/10/08	04/15/08	28	6.42	04/15/08	28	6.42	
EXT8-040908	04/09/08	04/10/08	04/15/08	28	6.43	04/15/08	28	6.43	
EXT8-040908-FD	04/09/08	04/10/08	04/15/08	28	6.45	04/15/08	28	6.45	
EXT4-040908	04/09/08	04/10/08	04/15/08	28	6.38	04/15/08	28	6.38	
EXT1-040908	04/09/08	04/10/08	04/15/08	28	6.50	04/15/08	28	6.50	
EXT3-040908	04/09/08	04/10/08	04/15/08	28	6.38	04/15/08	28	6.38	
EXT2-040908	04/09/08	04/10/08	04/15/08	28	6.37	04/15/08	28	6.37	
EXT6-040908	04/09/08	04/10/08	04/15/08	28	6.43	04/15/08	28	6.43	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

METHOD BLANK SUMMARY

Login Number: L08040312
Blank File ID: I10415081247.12
Prep Date: 04/15/08 12:47
Analyzed Date: 04/15/08 12:47
Analyst: DSF

Work Group: WG268465
Blank Sample ID: WG268465-01
Instrument ID: IC1
Method: 314.0

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG268465-02	I10415081325.13	04/15/08 13:25	01
DUP	WG268465-04	I10415081407.15	04/15/08 14:07	DL01
EXT2-040908	L08040312-02	I10415081712.24	04/15/08 17:12	DL01
EXT3-040908	L08040312-03	I10415081732.25	04/15/08 17:32	DL01
EXT4-040908	L08040312-04	I10415081753.26	04/15/08 17:53	DL01
EXT5-040908	L08040312-05	I10415081813.27	04/15/08 18:13	DL01
EXT6-040908	L08040312-06	I10415081833.28	04/15/08 18:33	DL01
EXT7-040908	L08040312-07	I10415081854.29	04/15/08 18:54	DL01
EXT8-040908	L08040312-08	I10415081914.30	04/15/08 19:14	DL01
EXT8-040908-FD	L08040312-09	I10415081935.31	04/15/08 19:35	DL01
EXT1-040908	L08040312-01	I10415081955.32	04/15/08 19:55	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 1065491
Report generated 04/16/2008 11:50



METHOD BLANK REPORT

Login Number: L08040312 Prep Date: 04/15/08 12:47 Sample ID: WG268465-01
Instrument ID: IC1 Run Date: 04/15/08 12:47 Prep Method: 314.0
File ID: I10415081247.12 Analyst: DSF Method: 314.0
Workgroup (AAB#): WG268465 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: IC1-01-APR-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Perchlorate	0.500	1.00	0.500	1	U

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* Analyte concentration > RL

Report Name: BLANK

PDF ID: 1065495

16-APR-2008 11:50



Login Number: L08040312 Run Date: 04/15/2008 Sample ID: WG268465-02
Instrument ID: IC1 Run Time: 13:25 Prep Method: 314.0
File ID: I10415081325.13 Analyst: DSF Method: 314.0
Workgroup (AAB#): WG268465 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD20008 Cal ID: IC1-01-APR-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Perchlorate	25.0	25.1	101	85 - 115	

Conductivity Probe
 Calibration Check:
1413/1410 μ S/cm

**Perchlorate
 Conductivity Check**

Working MCT Level:
1122 μ S/cm

Sample	Conductivity (μ S/cm)	Pretreatment or Dilution Needed
L08040228-01	2350, 801	$\frac{1}{3}$ Due to Conductivity
-02	2350, 809	$\frac{1}{3}$ " " "
L08040279-01	2250, 771	$\frac{1}{3}$ " " "
-02	2240, 768	$\frac{1}{3}$ " " "
L08040303-01	1865, 998	$\frac{1}{2}$ " " "
L08040312-01	5730, 1090	$\frac{1}{6}$ " " "
-02	5390, 1082	$\frac{1}{6}$ " " "
-03	3830, 1094	$\frac{1}{4}$ " " "
-04	5510, 1074	$\frac{1}{6}$ " " "
-05	4020, 931	$\frac{1}{5}$ " " "
-06	9730, 1085	$\frac{1}{12}$ " " "
-07	5230, 1048	$\frac{1}{6}$ " " "
-08	1509, 803	$\frac{1}{2}$ " " "
-09	1409, 736	$\frac{1}{2}$ " " "

JSF

Analyst

4/15/08 10:30
 Date/Time

DCN#74948



3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
April 24, 2008

AJF - AMANDA J. FICKIESEN	ALB - ANNIE L. BROWN	AML - ANTHONY M. LONG
ASP - AARON S. PETRIE	BRG - BRENDA R. GREGORY	CAA - CASSIE A. AUGENSTEIN
CAF - CHERYL A. FLOWERS	CAH - CHARLES A. HALL	CEB - CHAD E. BARNES
CLC - CHRYS L. CRAWFORD	CLW - CHARISSA L. WINTERS	CMS - CRYSTAL M. STEPHENS
CPD - CHAD P. DAVIS	CSH - CHRIS S. HILL	DDE - DEBRA D. ELLIOTT
DEL - DON E. LIGHTFRITZ	DEV - DAVID E. VANDENBERG	DGB - DOUGLAS G. BUTCHER
DIH - DEANNA I. HESSON	DLB - DAVID L. BUMGARNER	DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH	DR - DEANNA ROBERTS	DSF - DEBRA S. FREDERICK
ECL - ERIC C. LAWSON	ED - EMILY E. DECKER	ERE - ERIN R. ELDER
FJB - FRANCES J. BOLDEN	HAV - HEMA VILASAGAR	HJR - HOLLY J. REED
JAB - JUANITA A. BECKER	JBK - JEREMY B. KINNEY	JDH - JUSTIN D. HESSON
JKP - JACQUELINE K. PARSONS	JKT - JANE K. THOMPSON	JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES	JYH - JI Y. HU	KEB - KATHRYN E. BARNES
KHR - KIM H. RHODES	KJW - KATIE J. WIEFERICH	KRA - KATHY R. ALBERTSON
LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA	MDA - MIKE D. ALBERTSON
MDC - MICHAEL D. COCHRAN	MES - MARY E. SCHILLING	MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON	NPM - NATHANIEL P. MILLER
RAH - ROY A. HALSTEAD	RB - ROBERT BUCHANAN	REK - ROBERT E. KYER
RLK - ROBIN L. KLINGER	RWC - RODNEY W. CAMPBELL	SDH - SHANA D. HINYARD
SLM - STEPHANIE L. MOSSBURG	SLP - SHERI L. PFALZGRAF	SMH - SHAUNA M. HYDE
TDH - TRICIA D. HUCK	TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS	VC - VICKI COLLIER	

List of Valid Qualifiers

April 24, 2008

Qualkey: STD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
FL	Free Liquid
I	Semiquantitative result (out of instrument calibration range)
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit
ND,L	Not detected; sample reporting limit (RL) elevated due to interference
ND,S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria fail. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Undetected; the concentration is below the reported MDL.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

***Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.





Shaw® Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Chain of Custody

Laboratory Name: MICROBAC				Address: 158 STARLITE DR. MARIETTA, GA.				Contact: STEPHANIE MOSSBURG									
Project Name: LHAAP				Project Location: KARNACK, TX.				Analysis and Method Desired (Indicate separate containers)				Remarks					
Project No.: 117591, 0005B002				Project Contact: Scott Beesinger		Project Telephone No.: 903-679-3448		Number of Containers	VOA	Chloride	Perchlorate						Chloride + perchlorate are in same bottle 500 ml plastic
Point of Contact: LARRY DUTY				Project Manager/Supervisor: PRAVEEN SRIVASTAV													
Telephone No.: 713-996-4547																	
Item No.	Sample Telephone Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location										
1	EXT1-040908	4/4/08	8:00		✓	W	GROUNDWATER, SITE 16	3	✓	✓	✓						
2	EXT2-040908	4/4/08	8:15		✓	W	" "	3	✓	✓	✓						
3	EXT3-040908	4/4/08	8:30		✓	W	" "	3	✓	✓	✓						
4	EXT4-040908	4/4/08	8:45		✓	W	" "	3	✓	✓	✓						
5	EXT5-040908	4/4/08	8:05		✓	W	" "	3	✓	✓	✓						
6	EXT6-040908	4/4/08	8:20		✓	W	" "	3	✓	✓	✓						
7	EXT7-040908	4/4/08	8:35		✓	W	" "	3	✓	✓	✓						
8	EXT8-040908	4/4/08	8:50		✓	W	" "	3	✓	✓	✓						
9	EXT8-040908-FD	4/4/08	8:50		✓	W	" "	3	✓	✓	✓						
10	TRIP BLANK					W		2	✓								
Transfers Relinquished By (signature)				Date/Time		Transfers Accepted By (signature)				Date/Time		Special Instructions					
<i>Scott Beesinger</i>				4/4/08 3:00													
												FedEx Airbill No.:					
						Laboratory <i>Erm Elden</i>				4-10-08 0915		Sampler's Signature <i>Scott Beesinger</i>					
TAT: <u>Standard</u>				Rush Date		Seals Intact? <u>✓</u> Y <u> </u> N				Received Good Condition <u>✓</u> Y <u> </u> N		Cold					

Client: SHAW Longhorn				
Workorder Number: B				
Date Received: 4-10-08				
Delivered by:	() Fedx	(X) UPS	() Client	() Courier Time: 0915
Opened by: EE				
IR Temp Gun:	(40	() G		
Logged by: EE/JET			L08040312	

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
742	2	1266V7250199643392		SH

Inspection Checklist

	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	✓			
Were custody seals intact?	✓			
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/ information complete/signed and dated?	✓			
Were sample containers and labels intact and match COC?	✓			
Were the correct containers and volumes received?	✓			
Were correct preservatives used? (water only)	✓			
Were pH ranges acceptable? (voa's excluded)			✓	
Were VOA samples free of headspace (< 6mm)?	✓			
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

Distribution

Name of Microbac representative
Client/Company:
Person Contacted:
Date contacted:

Resolution/other comments:

Internal Chain of Custody Report

Login: L08040312

Account: 2773

Project: 2773.025

Samples: 10

Due Date: 17-APR-2008

Samplenum **Container ID** **Products**
L08040312-01 445847 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:58	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

Samplenum **Container ID** **Products**
L08040312-01 445846 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Samplenum **Container ID** **Products**
L08040312-02 445848 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08040312

Account: 2773

Project: 2773.025

Samples: 10

Due Date: 17-APR-2008

Samplenum **Container ID** **Products**
L08040312-06 445856 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Samplenum **Container ID** **Products**
L08040312-07 445859 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:59	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

Samplenum **Container ID** **Products**
L08040312-10 445864 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08040312

Account: 2773

Project: 2773.025

Samples: 10

Due Date: 17-APR-2008

Samplenum **Container ID** **Products**
L08040312-06 445857 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:59	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

Samplenum **Container ID** **Products**
L08040312-05 445854 826-L0W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Samplenum **Container ID** **Products**
L08040312-07 445858 826-L0W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08040312**Account:** 2773**Project:** 2773.025**Samples:** 10**Due Date:** 17-APR-2008

Samplenum **Container ID** **Products**
L08040312-02 445849 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:58	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

Samplenum **Container ID** **Products**
L08040312-09 445863 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:59	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

Samplenum **Container ID** **Products**
L08040312-04 445852 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08040312

Account: 2773

Project: 2773.025

Samples: 10

Due Date: 17-APR-2008

Samplenum **Container ID** **Products**
L08040312-08 445860 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Samplenum **Container ID** **Products**
L08040312-05 445855 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:58	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

Samplenum **Container ID** **Products**
L08040312-03 445850 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:58	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08040312

Account: 2773

Project: 2773.025

Samples: 10

Due Date: 17-APR-2008

Samplenum **Container ID** **Products**
L08040312-09 445862 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	10-APR-2008 16:59	ERE	
2	ANALYZ	V1	ORG4	11-APR-2008 10:17	KJW	JKT
3	STORE	ORG4	A1	24-APR-2008 11:00	ERE	MRT

Samplenum **Container ID** **Products**
L08040312-03 445851 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:58	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

Samplenum **Container ID** **Products**
L08040312-04 445853 CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:58	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08040312**Account:** 2773**Project:** 2773.025**Samples:** 10**Due Date:** 17-APR-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08040312-08	445861	CL04

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	10-APR-2008 16:59	ERE	
2	ANALYZ	W1	SEM	11-APR-2008 11:05	DSF	ERE
3	STORE	SEM	W1	11-APR-2008 16:52	DSF	DSF
4	ANALYZ	W1	SEM	15-APR-2008 09:24	DSF	ERE
5	STORE	SEM	A1	16-APR-2008 12:56	JKT	DSF

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login





ANALYTICAL REPORT

Job Number: 680-41902-1

Job Description: Shaw Longhorn

For:

Microbac Laboratories, Inc.

158 Starlite Drive

Marietta, OH 45750

Attention: Ms. Stephanie Mossburg

Approved for release.
Sheila Hoffman
Project Manager I
11/18/2008 12:24 PM

Sheila Hoffman
Project Manager I
sheila.hoffman@testamericainc.com
11/18/2008

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404

Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



Job Narrative
680-J41902-1**Comments**

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

Method(s) 314.0: The following samples ICT14D-102908 (680-41902-13), EXT3-102908 (680-41902-21), EXT4-102908 (680-41902-22) were analyzed at dilutions due to Matrix of the samples and Matrix Conductivity Threshold of the instrument. The reporting limits have been adjusted accordingly.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Microbac Laboratories, Inc.

Job Number: 680-41902-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Perchlorate (IC)	TAL SAV	EPA 314.0	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SAMPLE SUMMARY

Client: Microbac Laboratories, Inc.

Job Number: 680-41902-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-41902-1	ICT7-102908	Water	10/29/2008 0818	11/04/2008 0903
680-41902-2	ICT8-102908	Water	10/29/2008 0830	11/04/2008 0903
680-41902-3	ICT8-102908-FD	Water	10/29/2008 0830	11/04/2008 0903
680-41902-4	ICT11-102908	Water	10/29/2008 0810	11/04/2008 0903
680-41902-5	ICT12B-102908	Water	10/29/2008 0940	11/04/2008 0903
680-41902-6	ICT12C-102908	Water	10/29/2008 0935	11/04/2008 0903
680-41902-7	ICT12D-102908	Water	10/29/2008 0930	11/04/2008 0903
680-41902-8	ICT12E-102908	Water	10/29/2008 0925	11/04/2008 0903
680-41902-9	ICT13F-102908	Water	10/29/2008 0912	11/04/2008 0903
680-41902-10	ICT14A-102908	Water	10/29/2008 0842	11/04/2008 0903
680-41902-11	ICT14B-102908	Water	10/29/2008 0847	11/04/2008 0903
680-41902-12	ICT14C-102908	Water	10/29/2008 0851	11/04/2008 0903
680-41902-13	ICT14D-102908	Water	10/29/2008 0855	11/04/2008 0903
680-41902-14	EW01-102908	Water	10/29/2008 0822	11/04/2008 0903
680-41902-15	EW01-102908-FD	Water	10/29/2008 0822	11/04/2008 0903
680-41902-16	18WW17-102908	Water	10/29/2008 0905	11/04/2008 0903
680-41902-17	ICT4-102908	Water	10/29/2008 0950	11/04/2008 0903
680-41902-18	EXT1-102908	Water	10/29/2008 1215	11/04/2008 0903
680-41902-19	EXT2-102908	Water	10/29/2008 1230	11/04/2008 0903
680-41902-20	EXT2-102908-FD	Water	10/29/2008 1230	11/04/2008 0903
680-41902-21	EXT3-102908	Water	10/29/2008 1250	11/04/2008 0903
680-41902-22	EXT4-102908	Water	10/29/2008 1305	11/04/2008 0903
680-41902-23	EXT5-102908	Water	10/29/2008 1220	11/04/2008 0903
680-41902-24	EXT6-102908	Water	10/29/2008 1235	11/04/2008 0903
680-41902-25	EXT7-102908	Water	10/29/2008 1255	11/04/2008 0903
680-41902-26	EXT8-102908	Water	10/29/2008 1310	11/04/2008 0903

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1 SDG Number: Shaw Longhorn

Client Sample ID: ICT7-102908

Lab Sample ID: 680-41902-1 Date Sampled: 10/29/2008 8:18
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	220			0.11	1.0	0.55	ug/L	11/07/2008 14:33	122519	5	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT8-102908

Lab Sample ID: 680-41902-2 Date Sampled: 10/29/2008 8:30
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	1300			0.11	1.0	55 ug/L	11/07/2008 15:18	122519	500	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT8-102908-FD

Lab Sample ID: 680-41902-3 Date Sampled: 10/29/2008 8:30
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	ML	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Perchlorate	14797-73-0	1300			0.11	1.0	55	ug/L	11/07/2008 15:33	122519	500	CB

Method: EPA 314.0, Water

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT11-102908

Lab Sample ID: 680-41902-4 Date Sampled: 10/29/2008 8:10
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	21000			0.11	110	ug/L	11/10/2008 14:14	122523	1000	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT12B-102908

Lab Sample ID: 680-41902-5 Date Sampled: 10/29/2008 9:40
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	110000			0.11	550	ug/L	11/07/2008 16:03	122519	5000	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT12C-102908

Lab Sample ID: 680-41902-6 Date Sampled: 10/29/2008 9:35
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	46000			0.11	1.0	550 ug/L	11/07/2008 16:18	122519	5000	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1 SDG Number: Shaw Longhorn

Client Sample ID: ICT12D-102908

Lab Sample ID:	680-41902-7	Date Sampled:	10/29/2008	9:30
Client Matrix:	Water	Date Received:	11/04/2008	9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0,Water												
Perchlorate	14797-73-0	8500			0.11	1.0	22	ug/L	11/10/2008 14:29	122523	200	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT12E-102908

Lab Sample ID: 680-41902-8 Date Sampled: 10/29/2008 9:25
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	100000			0.11	280	ug/L	11/07/2008 16:48	122519	2500	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT13F-102908

Lab Sample ID: 680-41902-9 Date Sampled: 10/29/2008 9:12
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	1.0			0.11	1.0	0.11	ug/L	11/07/2008 17:33	122519	1	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
Client Sample ID: ICT14A-102908 SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-10 Date Sampled: 10/29/2008 8:42
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	8700			0.11	1.0	55 ug/L	11/07/2008 17:48	122519	500	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: ICT14B-102908

Lab Sample ID: 680-41902-11 Date Sampled: 10/29/2008 8:47
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	15000			0.11	1.0	110	ug/L	11/07/2008 18:03	122519	1000	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1

Client Sample ID: ICT14C-102908 SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-12 Date Sampled: 10/29/2008 8:51

Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	31000			0.11	1.0	110	ug/L	11/07/2008 18:18	122519	1000	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1

Client Sample ID: ICT14D-102908 SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-13 Date Sampled: 10/29/2008 8:55

Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	1.1	U		0.11	1.0	1.1	ug/L	122523	10	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
Client Sample ID: EW01-102908 SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-14 Date Sampled: 10/29/2008 8:22
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	14000			0.11	1.0	55 ug/L	11/07/2008 18:47	122519	500	CB

Job Number: 680-41902-1
SDG Number: Shaw Longhorn

ATTN: Ms. Stephanie Mossburg

Project: Shaw Longhorn

Client: Microbac Laboratories, Inc.

Client Sample ID: EW01-102908-FD

Lab Sample ID: 680-41902-15
Client Matrix: Water
Date Sampled: 10/29/2008 8:22
Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst	
Method: EPA 314.0,Water												
Perchlorate	14797-73-0	17000			0.11	1.0	55	ug/L	11/07/2008 19:00	122519	500	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
 Client Sample ID: 18WW17-102908 SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-16 Date Sampled: 10/29/2008 9:05
 Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	40000			0.11	1.0	55	ug/L	11/07/2008 19:15	122519	500	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-17
Client Matrix: Water
Date Sampled: 10/29/2008 9:50
Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MLQ	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	110000			0.11	1.0	550	ug/L	11/07/2008 19:30	122519	5000	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-18
Client Matrix: Water
Date Sampled: 10/29/2008 12:15
Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	ML	UNITS	Analysis Date/Time	Batch	D.F.	Analyst	
Method: EPA 314.0,Water												
Perchlorate	14797-73-0	570			0.11	1.0	5.5	ug/L	11/10/2008 14:44	122523	50	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: EXT2-102908

Lab Sample ID: 680-41902-19 Date Sampled: 10/29/2008 12:30
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Perchlorate	14797-73-0	37	J		0.11	1.0	5.5	ug/L	11/10/2008 15:44	122523	50	CB

Method: EPA 314.0, Water

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
Client Sample ID: EXT2-102908-FD SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-20 Date Sampled: 10/29/2008 12:30
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0,Water												
Perchlorate	14797-73-0	14	J		0.11	1.0	2.8	ug/L	11/10/2008 17:29	122523	25	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1

Client Sample ID: EXT3-102908 SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-21

Client Matrix: Water

Date Sampled: 10/29/2008 12:50
Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water											
Perchlorate	14797-73-0	5.5	U		0.11	5.5	ug/L	11/10/2008 16:14	122523	50	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: EXT4-102908

Lab Sample ID: 680-41902-22 Date Sampled: 10/29/2008 13:05
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0,Water Perchlorate	14797-73-0	1.1	U		0.11	1.0	1.1	ug/L	11/10/2008 16:44	122523	10	CB

Method: EPA 314.0, Water

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1 SDG Number: Shaw Longhorn

Client Sample ID: EXT5-102908

Lab Sample ID: 680-41902-23 Date Sampled: 10/29/2008 12:20
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Perchlorate	14797-73-0	160			0.11	1.0	0.55	ug/L	122523	5	CB

Method: EPA 314.0, Water

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
SDG Number: Shaw Longhorn

Client Sample ID: EXT6-102908

Lab Sample ID: 680-41902-24 Date Sampled: 10/29/2008 12:35
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	ML	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	320			0.11	1.0	2.8	ug/L	11/10/2008 16:59	122523	25	CB

Job Number: 680-41902-1
SDG Number: Shaw Longhorn

ATTN: Ms. Stephanie Mossburg

Project: Shaw Longhorn

Client: Microbac Laboratories, Inc.

Client Sample ID: EXT7-102908

Date Sampled: 10/29/2008 12:55
Date Received: 11/04/2008 9:03

Lab Sample ID: 680-41902-25
Client Matrix: Water

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0,Water												
Perchlorate	14797-73-0	530			0.11	1.0	2.8	ug/L	11/10/2008 17:14	122523	25	CB

Method: EPA 314.0, Water

Perchlorate

14797-73-0

530

0.11

1.0

2.8

ug/L

11/10/2008 17:14

122523

25

C3

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-41902-1
Client Sample ID: EXT8-102908 SDG Number: Shaw Longhorn

Lab Sample ID: 680-41902-26 Date Sampled: 10/29/2008 13:10
Client Matrix: Water Date Received: 11/04/2008 9:03

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	SQL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst

Method: EPA 314.0, Water

Perchlorate	14797-73-0	5.0	J		0.11	1.0	0.55	ug/L	11/10/2008 12:44	122523	5	CB

DATA REPORTING QUALIFIERS

Client: Microbac Laboratories, Inc.

Job Number: 680-41902-1

Lab Section	Qualifier	Description
HPLC		
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Microbac Laboratories, Inc.

Job Number: 680-41902-1

Method Blank - Batch: 680-122519

Method: 314.0
Preparation: N/ALab Sample ID: MB 680-122519/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/07/2008 1318
Date Prepared: N/AAnalysis Batch: 680-122519
Prep Batch: N/A
Units: ug/LInstrument ID: ICCS200 - H
Lab File ID: 0005.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	Result	Qual	MDL	RL
Perchlorate	0.11	U	0.11	1.0

Lab Control Spike - Batch: 680-122519

Method: 314.0
Preparation: N/ALab Sample ID: LCS 680-122519/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/07/2008 1348
Date Prepared: N/AAnalysis Batch: 680-122519
Prep Batch: N/A
Units: ug/LInstrument ID: ICCS200 - H
Lab File ID: 0007.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	10.0	9.36	94	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-122519Method: 314.0
Preparation: N/AMS Lab Sample ID: 680-41902-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 11/07/2008 1448
Date Prepared: N/AAnalysis Batch: 680-122519
Prep Batch: N/AInstrument ID: ICCS200 - H
Lab File ID: 0011.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uLMSD Lab Sample ID: 680-41902-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 11/07/2008 1503
Date Prepared: N/AAnalysis Batch: 680-122519
Prep Batch: N/AInstrument ID: ICCS200 - H
Lab File ID: 0012.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Perchlorate	94	101	80 - 120	1	15	4	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Microbac Laboratories, Inc.

Job Number: 680-41902-1

Method Blank - Batch: 680-122523

Method: 314.0
Preparation: N/ALab Sample ID: MB 680-122523/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2008 1117
Date Prepared: N/AAnalysis Batch: 680-122523
Prep Batch: N/A
Units: ug/LInstrument ID: ICCS200 - H
Lab File ID: 0005.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	Result	Qual	MDL	RL
Perchlorate	0.11	U	0.11	1.0

Lab Control Spike - Batch: 680-122523

Method: 314.0
Preparation: N/ALab Sample ID: LCS 680-122523/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2008 1145
Date Prepared: N/AAnalysis Batch: 680-122523
Prep Batch: N/A
Units: ug/LInstrument ID: ICCS200 - H
Lab File ID: 0007.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	10.0	8.56	86	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.



Shaw Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Chain of Custody

NO. 571

11/18/2008

Laboratory Name: <u>MICROBAC</u>		Address: <u>158, Street, 10 Dr. Marietta, OH.</u>		Contact: <u>STEPHANIE Messburg</u>	
Project Name: <u>LHAP</u>		Project Location: <u>KARNACK, TX.</u>		Analysis and Method Desired (Indicate separate containers)	
Project No.: <u>117591.0005B002</u>		Project Contact: <u>Jennifer Huang</u>		Project Telephone No.: <u>713-996-4408</u>	
Point of Contact: <u>Scott Beesinger</u>		Project Manager/Supervisor: <u>Raveen Srivastava</u>		Remarks	
Telephone No.: <u>903-679-3448</u>					

Seq	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	VOA	PERCHLORATE	Remarks
1	~~ICT 7 - 102408~~	~~10/24/08~~	~~8:18~~	~~✓~~	~~W~~	~~W~~	~~Site 18/24~~	~~3~~	~~2~~	~~1~~	
2	ICT 7 - 102408	10/24/08	8:18	✓	W	W	Site 18/24	3	2	1	
3	ICT 8 - 102408	10/24/08	8:30	✓	W	W	Site 18/24	3	2	1	
4	ICT 8 - 102408 - FD	10/24/08	8:30	✓	W	W	Site 18/24	3	2	1	
5	ICT 11 - 102408	10/24/08	8:10	✓	W	W	Site 18/24	3	2	1	
6	ICT 12B - 102408	10/24/08	9:40	✓	W	W	Site 18/24	3	2	1	
7	ICT 12C - 102408	10/24/08	9:35	✓	W	W	Site 18/24	3	2	1	
8	ICT 12D - 102408	10/24/08	9:30	✓	W	W	Site 18/24	3	2	1	
9	ICT 12E - 102408	10/24/08	9:25	✓	W	W	Site 18/24	3	2	1	
10	ICT 13F - 102408	10/24/08	9:12	✓	W	W	Site 18/24	3	2	1	68541902

Transfers Relinquished By (signature): <u>Scott Beesinger</u>		Date/Time: <u>10/30/08 8:00</u>	Transfers Accepted By (signature): <u>[Signature]</u>	Date/Time: <u>11/02/08</u>
TAT: <u>Standard</u>		Rush Date: <u></u>	Seals Intact? <u>Y</u> <u>N</u>	Received Good Condition <u>Y</u> <u>N</u>
Laboratory: <u>Env 7614</u>		FedEx Airbill No.: <u></u>		
Sampler's Signature: <u>Scott Beesinger</u>		Special Instructions: <u>STANDARD TAT</u>		

TEMP. 21.0
 Form Number: 433.2



Shaw Shaw Environmental & Infrastructure, Inc.

3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Chain of Custody

NO. 5718

11/18/2008

Laboratory Name: Microbac		Address: 158 Starlite Dr. Marietta, GA		Contact: Stephanie Moschberg	
Project Name: LHAPP	Project Location: KARNACK, TX.	Project Contact: Jennifer Hoang	Project Telephone No.: 713-996-4408	Analysis and Method Desired (Indicate separate containers)	
Project No.: 117591.0005B002	Point of Contact: Scott Beesinger	Project Manager/Supervisor: Praveen Srivastava		Remarks	
Telephone No.: 903-679-3448		Number of Containers: NOA			
Sample Number		Date	Time	Comp	Grab
1	ICT 14A-102908	10/29/08	8:14Z		
2	ICT 14B-102908	10/29/08	8:14Z		
3	ICT 14C-102908	10/29/08	8:15Z		
4	ICT 14D-102908	10/29/08	8:15Z		
5	EW01-102908	10/29/08	8:15Z		
6	EW01-102908-FD	10/29/08	8:15Z		
7	18WWT-102908	10/29/08	9:05Z		
8	ICT4-102908	10/29/08	9:50Z		
9	TRIP BLANK	10/29/08			
10					
Transfers Relinquished By (signature): Scott Beesinger		Date/Time: 10/30/08 8:00	Transfers Accepted By (signature): [Signature]		
TAT: Standard		Rush Date: 	Seals Intact? Y	N	Received Good Condition Y
Laboratory: Env. Phys.		Date/Time: 10-31-08	Special Instructions: STANDARD TAT		
Sampler's Signature: Scott Beesinger		FedEx Airbill No.: 			

Chain of Custody

NO. 5719

Shaw Shaw Environmental & Infrastructure, Inc.
 3010 Briarpark Drive, Suite 400
 Houston, TX 77042
 (713) 996-4400

11/18/2008

Laboratory Name: Microbac		Address: 158 Starlite Dr. Marietta, OH		Contact: Stephanie Mossburg								
Project Name: LHAP	Project Location: Karnack, TX.	Project Telephone No.: 713-996-4408	Analysis and Method Desired (Indicate separate containers)									
Project No.: 117591.0005B002	Project Contact: Jennifer Hoang	Project Manager/Supervisor: Praveen Sivasankar	Remarks									
Point of Contact: Scott Beesinger		Telephone No.: 903.679-3448										
Item #	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	VoA	CHLORIDE	PERCHLORATE	Special Instructions
1	EXT 1 - 102908	10/24/08	12:15		✓	W	site 1b	4	2	1	1	
2	EXT 2 - 102908	10/24/08	12:30		✓	W	site 1b	4	2	1	1	
3	EXT 2 - 102908 - FD	10/24/08	12:30		✓	W	site 1b	4	2	1	1	
4	EXT 3 - 102908	10/24/08	12:50		✓	W	site 1b	4	2	1	1	
5	EXT 4 - 102908	10/24/08	1:05		✓	W	site 1b	4	2	1	1	
6	EXT 5 - 102908	10/24/08	12:20		✓	W	site 1b	4	2	1	1	
7	EXT 6 - 102908	10/24/08	12:35		✓	W	site 1b	4	2	1	1	
8	EXT 7 - 102908	10/24/08	12:55		✓	W	site 1c	4	2	1	1	
9	EXT 8 - 102908	10/24/08	1:10		✓	W	site 1b	4	2	1	1	
10	TRIP Blank	10/24/08			✓	W		2	2			00041902
Transfers Relinquished By (signature): Scott Beesinger		Date/Time: 10/30/08 8:00		Transfers Accepted By (signature): Praveen Sivasankar		Date/Time: 10/28/08 09:03		Special Instructions: Standard TAT				
TAT: Standard		Rush Date: _____		Seals Intact? Y N		Received Good Condition Y N		Cold				
Laboratory: Cum Para		Date/Time: 10-31-08 09:18		Sampler's Signature: Scott Beesinger		FedEx Airbill No.: _____						



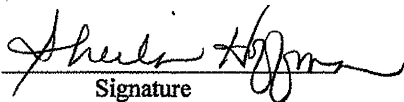
TestAmerica Savannah
 TRRP Laboratory Data Package Cover Page
 SDG / Log #: 680-41902
 Fraction: LC/314.0 Perchlorate

This data package consists of this signature page, the Laboratory Review Checklist, and the following reportable data:

- ☒ Field chain-of-custody documentation
- ☒ Sample identification cross-reference
- ☒ Test reports (analytical data sheets) for each environmental sample that includes:
 - Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - Dilution factors
 - Preparation methods
 - Clean-up methods
 - TICs (if required for the project)
- ☐ Surrogate recovery data including:
 - Calculated %R
 - Laboratory surrogate QC limits
- ☒ Test reports / Summary forms for blank samples
- ☒ Test reports / Summary forms for laboratory control samples (LCSs) including:
 - LCS spiking amounts
 - Calculated %R for each analyte
 - Laboratory LCS QC limits
- ☒ Test reports for project matrix spike/matrix spike duplicates (MS/MSD) including:
 - Samples associated with MS/MSD clearly identified
 - MS/MSD spiking amounts
 - Concentration of each MS/MSD analyte measured in the parent and spiked samples
 - Calculated %Rs and relative percent differences (RPD)
 - Laboratory MS/MSD QC limits
- ☒ Laboratory analytical duplicate (if applicable) recovery and precision
 - Amount of analyte measured in the duplicate
 - Calculated RPD
 - Laboratory QC limits for analytical duplicates
- ☒ List of method quantitation limits for each analyte for each method and matrix
- ☐ Other problems and anomalies
- ☒ The Exception Report for every "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist

Release Statement: *I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory as having potential to affect the quality of the data have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.*

Sheila Hoffman
 Name (Printed)


 Signature

Project Manager
 Official Title

11-18-08
 Date



TestAmerica Savannah
TRRP Laboratory Review Checklist

SDG / Log #: 68041902/ 680-41902

Fraction: 314.0

Date: 11.13.08

Reviewer Name: C. Brazell

Prep Batch Numbers: 122519 and 122523

Instrument ID: ICH

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER ⁵
R1	Q1 (QA/TM)	Chain of Custody (COC)					
		Did each sample meet the laboratory's sample acceptance policy upon receipt? (This includes cooler temperatures, sample IDs, correct COC, etc.)	X				
		Are all sample receipt issues described in an exception report and noted in the case narrative?	X				
R2	Q1 (QA/TM)	Sample and Quality Control (QC) Identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers? (This information is included in the case narrative table and/or LIMS report.)	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data? (This information is included on the forms and/or LIMS report.)	X				
R3	Q1	Test Reports					
		Were all samples prepared within holding times?	X				
		Were all samples analyzed within holding times?	X				
		Were all hits >MQL (RL) within the instrument's calibration range?	X				
		If hits are not within the calibration range, have the data been flagged with the appropriate qualifiers and additional runs reported?			X		
		Were calculations reviewed by a peer or supervisor?	X				
		Were analyte identifications reviewed by a peer or supervisor?	X				
		Were sample quantitation limits reported for all undetected analytes? (This information is included on the forms and/or LIMS report.)	X				
		Were the results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, were TICs reported?			X		
R4	Q1	Surrogate Recovery Data					
		Were surrogates added prior to extraction, as required by the method?			X		
		Were all surrogate percent recoveries within the laboratory QC limits? (Note ANY failing surrogate in the Exception Report.)			X		
R5	Q1	Field Blanks, Summaries, Blanks, or Duplicates					
		Were the appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL (RL)?	X				
R6	Q1	Laboratory Control Samples (LCS)					
		Were all COCs included in the LCS? (Were full-list spikes used?)	X				
		Was each LCS taken through the entire analytical procedure, including preparation and, if applicable, cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) % Rs within laboratory QC limits? (Note ANY failing spike analyte in the Exception Report.)			X		
		If performed, was the LCSD %RPD within QC limits? (Note ANY failing spike analyte in the Exception Report.)			X		
R7	Q1	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were the MS/MSD analyzed at the appropriate frequency?	X				
		Were MS/MSD %Rs within the laboratory QC limits? (Note ANY failing spike analyte in the Exception Report.)	X				
		Were MS/MSD RPDs within laboratory QC limits? (Note ANY failing spike analyte in the Exception Report.)	X				



TestAmerica Savannah
 TRRP Laboratory Review Checklist
 SDG / Log #: 68041902/ 680-41902
 Fraction: 314.0

Date: 11.13.08
Reviewer Name: C. Brazell
Prep Batch Numbers: 122519 and 122523
Instrument ID: ICH

#1	A2	Description	Yes	No	NA3	NR4	ER#5
10		Analytical Duplicate Data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
10	(1)	Method Quantitation Limits (MQLs)					
		Are the MQLs (RLs) for each analyte included in the laboratory data package? (This information is included on the forms and/or LIMS report.)	X				
		Do the MQLs (RLs) correspond to the concentration of the lowest non-zero calibration standard, where applicable?	X				
		Have the unadjusted MQLs (RLs) been included in the laboratory data package? (This information is included on the forms and/or LIMS report.)	X				
10	(1)	Other Problems/Anomalies					
		Are all known problems, anomalies, and/or special conditions noted in the Laboratory Review Checklist and the Exception Report?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SQL (RL) to minimize the matrix interference effects on the sample results, as applicable?	X				
11	(1)	Initial Calibration (ICALs)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSD or correlation coefficient criteria met? (Note ANY use of Grand Mean in the Exception Report.)	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard? (Note any ICV outliers in the Exception Report.)	X				
12	(1)	Initial & Continuing Calibration Verification (ICCV & CCV)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits? (Note ANY use of Grand Mean in the Exception Report.)	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
13	(2)	Ion Spectral Tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
14	(1)	Internal Standards (IS)					
		Were IS area counts within the method-required QC limits?			X		
		Were IS retention times within the method-required QC limits?			X		
15	(1)	Raw Data					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				1
16	(3)	Dual Column Confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
17	(3)	Temporarily Identified Compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
18	(1)	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?	X				
19	(1)	Serial Dilutions, Post-Extraction Spikes, and Method of Standard Addition					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		2



TestAmerica Savannah
TRRP Laboratory Review Checklist

SDG / Log #: 68041902/ 680-41902

Fraction: 314.0

Date: 11.13.08
Reviewer Name: C. Brazell
Prep Batch Numbers: 122519 and 122523
Instrument ID: ICH

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
11	Q1	Method Performance and MDL Studies					
		Has an MDL study been performed for each analyte?	X				
		Has a DCS been performed for each analyte within the last 3 months? (If not, then list the estimated completion date in the Exception Report.)	X				
		Does the DCS meet the acceptance criteria and support the MDL?	X				
		If the DCS does not meet criteria, has the associated MDL been raised to the appropriate level?	X				
12	Q1	Proficiency Test Reports					
		Has the laboratory participated in the applicable proficiency tests or evaluation studies?	X				
13	Q1	Standards Documentation					
		Are all standards used NIST-traceable or obtained from other appropriate sources?	X				
14	Q1	Compound / Analyte Identification Procedures					
		Are the procedures for compound/analyte identification documented?	X				
15	Q1	Demonstration of Analyst Competency (DOC)					
		Has a DOC been performed as is consistent with NELAC Chapter 5C or ISO/IEC 4 for each analyst and analyte associated with this analysis?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
16	Q1	Verification / Validation Documentation for Methods					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
17	Q1	Laboratory Standard Operating Procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed?	X				

- Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses; PM = Project Management; QA = Quality Assurance
- NA = Not applicable.
- NR = Not Reviewed.
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).



TestAmerica Savannah
TRRP Laboratory Review Checklist

SDG / Log #: 68041902/ 680-41902

Fraction: 314.0

Date: 11.13.08
Reviewer Name: C. Brazell
Prep Batch Numbers: 122519 and 122523
Instrument ID: ICH

Exception Reports	
ER #¹	DESCRIPTION
1	Samples 680-41902-9 (ICT13F-102908) and -20 (EXT2-102908-FD) required a manual integration due to an unresolved baseline.
2	Samples 680-41902-13 (ICT14D-102908), -21 (EXT3-102908), and -22 (EXT4-102908) required a dilution due to the matrix conductivity threshold of the instrument. The reporting limit has been adjusted accordingly.
3	
4	

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LCR).

Login Sample Receipt Check List

Client: Microbac Laboratories, Inc.

Job Number: 680-41902-1

Login Number: 41902

Creator: Hall, Karl I

List Number: 1

List Source: TestAmerica Savannah

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Chain of Custody

NO. 5717



Shaw Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Laboratory Name: MICROBAC Address: 158 Stralio Dr. Marietta, OH.

Contact: STEPHANIE MOSSBURY

Project Name LHAP Project Location KANACK, TX. Analysis and Method Desired (Indicate separate containers)

Project No. 117591.0005B002 Project Contact Jennifer Huang Project Telephone No. 713-996-4408 Project Manager/Supervisor: Raveen Srivastava Remarks

Point of Contact: Scott Beesinger Telephone No. 903-679-3448

Unit	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	VOA	PERCHLORATE	Special Instructions
1	~~ICT 1-102408~~	~~10/24/08~~					~~site 18/24~~	~~3~~	~~2~~	~~1~~	
2	ICT 7-102408	10/24/08	8:18		✓	W	site 18/24	3	2	1	
3	ICT 8-102408	10/24/08	8:30		✓	W	site 18/24	3	2	1	
4	ICT 8-102408-FD	10/24/08	8:30		✓	W	site 18/24	3	2	1	
5	ICT 11-102408	10/24/08	8:10		✓	W	site 18/24	3	2	1	
6	ICT 12B-102408	10/24/08	9:40		✓	W	site 18/24	3	2	1	
7	ICT 12C-102408	10/24/08	9:35		✓	W	site 18/24	3	2	1	
8	ICT 12D-102408	10/24/08	9:30		✓	W	site 18/24	3	2	1	
9	ICT 12E-102408	10/24/08	9:25		✓	W	site 18/24	3	2	1	
10	ICT 13F-102408	10/24/08	9:12		✓	W	site 18/24	3	2	1	

Transfers Relinquished By (signature) Scott Beesinger Date/Time 10/30/08 8:00 Transfers Accepted By (signature) John D. Hill Date/Time 11/07/09 09:13 Special Instructions STANDARD TAT

FedEx Airbill No.:

TAT: Standard Rush Date Seals Intact? Y N Received Good Condition Y N Cold

White - Lab Copy Canary - Field Copy Pink - File Copy

TEMP. 21.0 Form Number: 433.2

Chain of Custody

NO. 5718



Shaw Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Laboratory Name: MicroBAC		Address: 158 Starlite Dr. Marietta, GA		Contact: Stephanie Mossburg													
Project Name: LHAP		Project Location: KARNACK, TX.		Analysis and Method Desired (Indicate separate containers)													
Project No.: 117591.00053002		Project Contact: Tennifer Hoang		Project Telephone No.: 713-996-4408													
Point of Contact: Scott Beesinger		Project Manager/Supervisor: Praveen Srivastava		Remarks													
Telephone No.: 903-679-3448																	
Site	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	NOA	Perchlorate							
1	ICT 14A-102408	10/29/08	8:42		✓	W	site 18/24	3	2	1							
2	ICT 14B-102408	10/29/08	8:47		✓	W	site 18/24	3	2	1							
3	ICT 14C-102408	10/29/08	8:51		✓	W	site 18/24	3	2	1							
4	ICT 14D-102408	10/29/08	8:55		✓	W	site 18/24	3	2	1							
5	EW01-102408	10/29/08	8:22		✓	W	site 18/24	3	2	1							
6	EW01-102408-FD	10/29/08	8:22		✓	W	site 18/24	3	2	1							
7	18WWT-102408	10/29/08	9:05		✓	W	site 18/24	3	2	1							
8	ICT 4-102408	10/29/08	9:50		✓	W	site 18/24	3	2	1							
9	TRIP BLANK	10/29/08			✓	W											
10																	
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions									
<i>Scott Beesinger</i>		10/30/08 8:00		<i>Praveen Srivastava</i>		10/29/08 7:05		STANDARD TAT									
TAT: _____ Standard _____ Rush Date _____		Seals Intact? _____ Y _____ N _____		Received Good Condition _____ Y _____ N _____		Cold _____											
Laboratory: <i>Grand Plaza</i>		Laboratory: <i>Grand Plaza</i>		Laboratory: <i>Grand Plaza</i>		Laboratory: <i>Grand Plaza</i>		Laboratory: <i>Grand Plaza</i>									
Sampler's Signature: <i>Scott Beesinger</i>		Sampler's Signature: <i>Scott Beesinger</i>		Sampler's Signature: <i>Scott Beesinger</i>		Sampler's Signature: <i>Scott Beesinger</i>		Sampler's Signature: <i>Scott Beesinger</i>									
FedEx Airbill No.:		FedEx Airbill No.:		FedEx Airbill No.:		FedEx Airbill No.:		FedEx Airbill No.:									

Chain of Custody

NO. 5719



Shaw Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Laboratory Name: Microbac		Address: 158 Starlite Dr. Marietta, OH		Contact: Stephanie Mossburg								
Project Name: LHAPP		Project Location: KATMACK, TX.		Analysis and Method Desired (Indicate separate containers)								
Project No.: 117591.0005B002		Project Contact: Jennifer Hanna		Project Telephone No.: 713-996-4408								
Point of Contact: Scott Beesinger		Project Manager/Supervisor: Praveen Srinivasan		Remarks								
Telephone No.: 903-679-3448												
Eg.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	VoA	CHLORIDE	PERCHLORATE	Special Instructions
1	EXT 1 - 102908	6/29/08	12:15		✓	W	site 1b	4	2	1	1	
2	EXT 2 - 102908	6/29/08	12:30		✓	W	site 1b	4	2	1	1	
3	EXT 2 - 102908 - FD	6/29/08	12:30		✓	W	site 1b	4	2	1	1	
4	EXT 3 - 102908	6/29/08	12:50		✓	W	site 1b	4	2	1	1	
5	EXT 4 - 102908	6/29/08	1:05		✓	W	site 1b	4	2	1	1	
6	EXT 5 - 102908	6/29/08	12:20		✓	W	site 1b	4	2	1	1	
7	EXT 6 - 102908	6/29/08	12:35		✓	W	site 1b	4	2	1	1	
8	EXT 7 - 102908	6/29/08	12:55		✓	W	site 1c	4	2	1	1	
9	EXT 8 - 102908	6/29/08	1:10		✓	W	site 1b	4	2	1	1	
10	TRIP Blank	6/29/08			✓	W		2	2			
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions				
<i>Scott Beesinger</i>		10/30/08 8:00		<i>Paul A. Hill</i>		11/04/08 09:03		Standard TAT				
TAT: Standard Rush Date		Seals Intact? Y N		Received Good Condition Y N		Cold		FedEx Airbill No.:				
Laboratory: <i>Cum Patti</i>		Sampler's Signature: <i>Scott Beesinger</i>										

Quick Facts



Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

Franklin Corporate Center

2000 Corporate Drive, Suite 350

Wexford, PA 15090

Phone: (724) 934-5030

FAX: (724) 934-5088

www.microbac.com

President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate -Wide: 18 Divisions, 28 locations across 15 states



Microbac Laboratories Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800-373-4071
Fax: 740-373-4835
Email: OVL@microbac.com



Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.), in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.



158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • <http://www.microbac.com>

Laboratory Report Number: L08100887

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	<i>Team Chemist/Data Specialist</i>	kalbertson@microbac.com
Stephanie Mossburg	<i>Team Chemist/Data Specialist</i>	smossburg@microbac.com
Tony Long	<i>Team Chemist/Data Specialist</i>	tlong@microbac.com
Brenda Gregory	<i>Client Services Specialist</i>	bgregory@microbac.com
Amanda Fickiesen	<i>Client Services Specialist</i>	afickiesen@microbac.com
Annie Brown	<i>Client Services Specialist</i>	abrown@microbac.com
Jacqueline Parsons	<i>Team Assistant</i>	jparsons@microbac.com

This report was reviewed on November 26, 2008.

A handwritten signature in cursive script that reads "Stephanie Mossburg".

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. 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. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on November 26, 2008.

A handwritten signature in cursive script that reads "David E. Vandenberg".

David Vandenberg - Managing Director

State of origin: Texas

Accrediting authority: Texas Commission on Environmental Quality ID:T104704252-07-TX

QAPP: Microbac (OVD) LQAP

This report contains a total of 309 pages.

Look closer. Go further. Do more.



Microbac REPORT L08100887
PREPARED FOR Shaw E I, Inc.
WORK ID: QUARTERLY EFFLUENT SAMPLES

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2.1.1 Volatiles GCMS Data (8260)	17
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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08100887

CHAIN OF CUSTODY: The chain of custody number was 5718, 5717 and 5719.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 2 and 3 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Approved: 07-NOV-08
<i>Stephanie Mossburg</i>

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) Cleanup methods, and
- e) If required for the project, tentatively identified compounds (TICs)

R4 Surrogate recovery data including:

- a) Calculated recovery (%R) for each analyte, and
- b) The laboratory's surrogate QC limits.

✓ R5 Test reports/summary forms for blank samples;

✓ R6 Test reports/summary forms for laboratory control samples (LCSs) including:

- a) LCS spiking amount,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %R and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;

R10 Other problems or anomalies.

The exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, If applicable: ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

DEANNA I. HESSON



Conventional Lab Supervisor

November 10, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08100887
 Project Name: 798-LONGHORN
 Method: CHLORIDE
 Prep Batch Number(s): WG286940
 Reviewer Name: DEANNA I. HESSON
 LRC Date: November 10, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?			✓		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <MQL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?	✓				
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?	✓				
Were MS/MSD analyzed at the appropriate frequency?	✓				
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08100887
 Project Name: 798-LONGHORN
 Method: CHLORIDE
 Prep Batch Number(s): WG286940
 Reviewer Name: DEANNA I. HESSON
 LRC Date: November 10, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?	✓				
Were analytical duplicates analyzed at the appropriate frequency?	✓				
Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
Were response factors and/or relative response factors for each analyte within QC limits?	✓				
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?	✓				
Was the absolute value of the analyte concentration in the inorganic CCB <MDL?	✓				
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?			✓		
Were ion abundance data within the method-required QC limits?			✓		
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?			✓		
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?			✓		

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08100887
 Project Name: 798-LONGHORN
 Method: CHLORIDE
 Prep Batch Number(s): WG286940
 Reviewer Name: DEANNA I. HESSON
 LRC Date: November 10, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?			✓		
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name:	Microbac Laboratories Inc.
Laboratory Log Number:	L08100887
Project Name:	798-LONGHORN
Method:	CHLORIDE
Prep Batch Number(s):	WG286940
Reviewer Name:	DEANNA I. HESSON
LRC Date:	November 10, 2008

EXCEPTIONS REPORT

ER# - Description

Footnotes:

- (1) NA = Not applicable to method or project
- (2) NR = Not reviewed
- (3) ER# = Exception report number

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

- ✓R1 Field chain-of-custody documentation;
- ✓R2 sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - b) dilution factors,
 - c) preparation methods,
 - d) Cleanup methods, and
 - e) If required for the project, tentatively identified compounds (TICs)
- ✓R4 Surrogate recovery data including:
 - a) Calculated recovery (%R) for each analyte, and
 - b) The laboratory's surrogate QC limits.
- ✓R5 Test reports/summary forms for blank samples;
- ✓R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amount,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- ✓R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %R and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- ✓R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- ✓R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ✓R10 Other problems or anomalies.
- ✓The exception Report for every "No" or "Not Reviewed (NR)" item IN laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

MIKE D. ALBERTSON



Volatiles Lab Supervisor

November 26, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08100887
 Project Name: 798-LONGHORN
 Method: 8260B
 Prep Batch Number(s): WG287340, WG287499, WG287338, WG287349, WG287385, WG287486, WG287402, WG287448
 Reviewer Name: MIKE D. ALBERTSON
 LRC Date: November 26, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?	✓				
Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			1
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <MQL?		✓			3
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?	✓				
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?			✓		
Were MS/MSD analyzed at the appropriate frequency?			✓		
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?			✓		
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			✓		
Were analytical duplicates analyzed at the appropriate frequency?			✓		
Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
ICAL					
Were response factors and/or relative response factors for each analyte within QC limits?	✓				
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?		✓			2
Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			✓		
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?	✓				
Were ion abundance data within the method-required QC limits?	✓				
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?	✓				
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?	✓				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NR(2)	ER(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

EXCEPTIONS REPORT

ER# - Description

1) Dibromofluoromethane exceeded the upper control limit in samples 10 and 22. Toluene-d8 was below the lower control limit in sample 09. 1,2-Dichloroethane-d4 exceeded the upper control limit in samples 01, 02, and 03.

2) 2-Chloroethylvinyl ether exceeded the upper control limit in the ICV performed 10/11/08 on HPMS-14. Dichlorodifluoromethane exceeded the upper control limit in the ICVs performed 10/28/08 on HPMS-6 and 11/03/08 on HPMS-8.

3) Bromomethane was detected above the RL in the method blanks analyzed 11/08/08 and 11/11/08 on HPMS-14.

4) 2-Chloroethylvinyl ether exceeded the upper control limit in the CCVs performed 11/08/08 and 11/11/08 on HPMS-14. Vinyl acetate was below the lower control limit in the CCVs performed 11/09/08 and 11/11/08 on HPMS-6.

5) Acetone, bromodichloromethane, chloromethane, dibromomethane, dichlorodifluoromethane, and vinyl chloride exceeded the upper advisory limits in the LCS performed 11/11/08 on HPMS-6. Acetone, carbon tetrachloride, chloroform, chloromethane, dichlorodifluoromethane, 1,2-dichloroethane, 2,2-dichloropropane, and 1,1,1-trichloroethane exceeded the upper advisory limits in the LCS performed 11/11/08 on HPMS-8. 2-Chloroethylvinyl ether, chloroform, dichlorodifluoromethane, and 1,1-dichloroethane exceeded the upper advisory limits in the LCS/LCSD performed 11/11/08 on HPMS-14. Carbon disulfide and 2-chloroethylvinyl ether exceeded the upper advisory limits in the LCS/LCSD performed 11/08/08 on HPMS-14. Carbon disulfide, dibromomethane, dichlorodifluoromethane, and vinyl chloride exceeded the upper advisory limits in the LCS/LCSD performed 11/08/08 on HPMS-6. Acetone exceeded the upper advisory limit in the LCS/LCSD performed 11/10/08 on HPMS-8. Acetone, bromodichloromethane, dibromomethane, dichlorodifluoromethane, and vinyl chloride exceeded the upper advisory limits in the LCS/LCSD performed 11/10/08 on HPMS-6. Acetone, dibromomethane, dichlorodifluoromethane, and vinyl chloride exceeded the upper advisory limits in the LCS/LCSD performed 11/09/08 on HPMS-6.

Footnotes:

- (1) NA = Not applicable to method or project
- (2) NR = Not reviewed
- (3) ER# = Exception report number

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

LABORATORY REPORT

00086435

L08100887

11/26/08 11:34

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: QUARTERLY EFFLUENT SAMPLES

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
ICT7-102908	L08100887-01	8260B	1	31-OCT-08
ICT8-102908	L08100887-02	8260B	10000	31-OCT-08
ICT8-102908-FD	L08100887-03	8260B	10000	31-OCT-08
ICT11-102908	L08100887-04	8260B	25	31-OCT-08
ICT12B-102908	L08100887-05	8260B	100	31-OCT-08
ICT12C-102908	L08100887-06	8260B	100	31-OCT-08
ICT12D-102908	L08100887-07	8260B	250	31-OCT-08
ICT12E-102908	L08100887-08	8260B	2500	31-OCT-08
ICT13F-102908	L08100887-09	8260B	1	31-OCT-08
ICT14A-102908	L08100887-10	8260B	1	31-OCT-08
ICT14A-102908	L08100887-10	8260B	5	31-OCT-08
ICT14B-102908	L08100887-11	8260B	1	31-OCT-08
ICT14C-102908	L08100887-12	8260B	250	31-OCT-08
ICT14C-102908	L08100887-12	8260B	50	31-OCT-08
ICT14D-102908	L08100887-13	8260B	500	31-OCT-08
ICT14D-102908	L08100887-13	8260B	1	31-OCT-08
ICT14D-102908	L08100887-13	8260B	100	31-OCT-08
EW01-102908	L08100887-14	8260B	10000	31-OCT-08
EW01-102908-FD	L08100887-15	8260B	10000	31-OCT-08
18WW17-102908	L08100887-16	8260B	1	31-OCT-08
ICT4-102908	L08100887-17	8260B	50	31-OCT-08
TRIP BLANK	L08100887-18	8260B	1	31-OCT-08
EXT1-102908	L08100887-19	8260B	100	31-OCT-08
EXT2-102908	L08100887-20	8260B	2000	31-OCT-08
EXT2-102908	L08100887-20	8260B	250	31-OCT-08
EXT2-102908-FD	L08100887-21	8260B	2000	31-OCT-08
EXT2-102908-FD	L08100887-21	8260B	250	31-OCT-08
EXT3-102908	L08100887-22	8260B	500	31-OCT-08

L1_A_PROD - Modified 03/06/2008
PDF File ID:1250142
Report generated: 11/26/2008 11:34

1 OF 2



LABORATORY REPORT

00086436

L08100887

11/26/08 11:34

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
EXT4-102908	L08100887-23	8260B	500	31-OCT-08
EXT4-102908	L08100887-23	8260B	50	31-OCT-08
EXT5-102908	L08100887-24	8260B	1	31-OCT-08
EXT6-102908	L08100887-25	8260B	5	31-OCT-08
EXT7-102908	L08100887-26	8260B	2.5	31-OCT-08
EXT8-102908	L08100887-27	8260B	1	31-OCT-08
TRIP BLANK	L08100887-28	8260B	1	31-OCT-08



Sample Number: **L08100887-01**
 Client ID: **ICT7-102908**
 Matrix: **Water**
 Workgroup Number: **WG287499**
 Collect Date: **10/29/2008 08:18**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS14**
 Prep Date: **11/11/2008 19:44**
 Cal Date: **10/11/2008 03:19**
 Run Date: **11/11/2008 19:44**
 File ID: **14M09774**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9	2.82	B	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4	1.34		1.00	0.250

Sample Number: **L08100887-01**
 Client ID: **ICT7-102908**
 Matrix: **Water**
 Workgroup Number: **WG287499**
 Collect Date: **10/29/2008 08:18**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS14**
 Prep Date: **11/11/2008 19:44**
 Cal Date: **10/11/2008 03:19**
 Run Date: **11/11/2008 19:44**
 File ID: **14M09774**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	104	86	118		
1,2-Dichloroethane-d4	128	80	120	*	
Toluene-d8	102	88	110		
4-Bromofluorobenzene	110	86	115		

U Not detected at or above adjusted sample detection limit
 * Surrogate or spike compound out of range
 B Analyte present in method blank

Sample Number: **L08100887-02**
Client ID: **ICT8-102908**
Matrix: **Water**
Workgroup Number: **WG287340**
Collect Date: **10/29/2008 08:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MDA**
Dilution: **10000**
Units: **ug/L**

Instrument: **HPMS14**
Prep Date: **11/09/2008 03:18**
Cal Date: **10/11/2008 03:19**
Run Date: **11/09/2008 03:18**
File ID: **14M09720**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	100000	25000
Benzene	71-43-2		U	10000	1250
Bromobenzene	108-86-1		U	10000	1250
Bromochloromethane	74-97-5		U	10000	2000
Bromodichloromethane	75-27-4		U	10000	2500
Bromoform	75-25-2		U	10000	5000
Bromomethane	74-83-9		U	10000	5000
2-Butanone	78-93-3		U	100000	25000
n-Butylbenzene	104-51-8		U	10000	2500
sec-Butylbenzene	135-98-8		U	10000	2500
tert-Butylbenzene	98-06-6		U	10000	2500
Carbon disulfide	75-15-0		U	10000	5000
Carbon tetrachloride	56-23-5		U	10000	2500
Chlorobenzene	108-90-7		U	10000	1250
Chlorodibromomethane	124-48-1		U	10000	2500
Chloroethane	75-00-3		U	10000	5000
2-Chloroethyl vinyl ether	110-75-8		U	100000	20000
Chloroform	67-66-3		U	10000	1250
Chloromethane	74-87-3		U	10000	2500
2-Chlorotoluene	95-49-8		U	10000	1250
4-Chlorotoluene	106-43-4		U	10000	2500
1,2-Dibromo-3-chloropropane	96-12-8		U	50000	10000
1,2-Dibromoethane	106-93-4		U	10000	2500
Dibromomethane	74-95-3		U	10000	2500
1,2-Dichlorobenzene	95-50-1		U	10000	1250
1,3-Dichlorobenzene	541-73-1		U	10000	2500
1,4-Dichlorobenzene	106-46-7		U	10000	1250
Dichlorodifluoromethane	75-71-8		U	10000	2500
1,1-Dichloroethane	75-34-3		U	10000	1250
1,2-Dichloroethane	107-06-2		U	10000	2500
1,1-Dichloroethene	75-35-4		U	10000	5000
cis-1,2-Dichloroethene	156-59-2		U	10000	2500
trans-1,2-Dichloroethene	156-60-5		U	10000	2500
1,2-Dichloropropane	78-87-5		U	10000	2000
1,3-Dichloropropane	142-28-9		U	10000	2000
2,2-Dichloropropane	594-20-7		U	10000	2500
cis-1,3-Dichloropropene	10061-01-5		U	10000	2500
trans-1,3-Dichloropropene	10061-02-6		U	10000	5000
1,1-Dichloropropene	563-58-6		U	10000	2500
Ethylbenzene	100-41-4		U	10000	2500
2-Hexanone	591-78-6		U	100000	25000
Hexachlorobutadiene	87-68-3		U	10000	2500
Isopropylbenzene	98-82-8		U	10000	2500
p-Isopropyltoluene	99-87-6		U	10000	2500
4-Methyl-2-pentanone	108-10-1		U	100000	25000
Methylene chloride	75-09-2	223000		50000	2500
Naphthalene	91-20-3		U	10000	2000
n-Propylbenzene	103-65-1		U	10000	1250
Styrene	100-42-5		U	10000	1250
1,1,1,2-Tetrachloroethane	630-20-6		U	10000	2500
1,1,2,2-Tetrachloroethane	79-34-5		U	10000	1250
Tetrachloroethene	127-18-4		U	10000	2500
Toluene	108-88-3		U	10000	2500
1,2,3-Trichlorobenzene	87-61-6		U	10000	1500
1,2,4-Trichlorobenzene	120-82-1		U	10000	2000
1,1,1-Trichloroethane	71-55-6		U	10000	2500
1,1,2-Trichloroethane	79-00-5		U	10000	2500
Trichloroethene	79-01-6	23800		10000	2500
Trichlorofluoromethane	75-69-4		U	10000	2500

Sample Number: **L08100887-02**
 Client ID: **ICT8-102908**
 Matrix: **Water**
 Workgroup Number: **WG287340**
 Collect Date: **10/29/2008 08:30**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **10000**
 Units: **ug/L**

Instrument: **HPMS14**
 Prep Date: **11/09/2008 03:18**
 Cal Date: **10/11/2008 03:19**
 Run Date: **11/09/2008 03:18**
 File ID: **14M09720**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	10000	5000
1,2,4-Trimethylbenzene	95-63-6		U	10000	2500
1,3,5-Trimethylbenzene	108-67-8		U	10000	2500
Vinyl acetate	108-05-4		U	100000	25000
Vinyl chloride	75-01-4		U	10000	2500
o-Xylene	95-47-6		U	10000	2500
m-,p-Xylene	136777-61-2		U	10000	5000
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	105	86	118		
1,2-Dichloroethane-d4	129	80	120	*	
Toluene-d8	102	88	110		
4-Bromofluorobenzene	110	86	115		

U Not detected at or above adjusted sample detection limit

* Surrogate or spike compound out of range

Sample Number: **L08100887-03**
Client ID: **ICT8-102908-FD**
Matrix: **Water**
Workgroup Number: **WG287340**
Collect Date: **10/29/2008 08:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MDA**
Dilution: **10000**
Units: **ug/L**

Instrument: **HPMS14**
Prep Date: **11/09/2008 03:48**
Cal Date: **10/11/2008 03:19**
Run Date: **11/09/2008 03:48**
File ID: **14M09721**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	100000	25000
Benzene	71-43-2		U	10000	1250
Bromobenzene	108-86-1		U	10000	1250
Bromochloromethane	74-97-5		U	10000	2000
Bromodichloromethane	75-27-4		U	10000	2500
Bromoform	75-25-2		U	10000	5000
Bromomethane	74-83-9		U	10000	5000
2-Butanone	78-93-3		U	100000	25000
n-Butylbenzene	104-51-8		U	10000	2500
sec-Butylbenzene	135-98-8		U	10000	2500
tert-Butylbenzene	98-06-6		U	10000	2500
Carbon disulfide	75-15-0		U	10000	5000
Carbon tetrachloride	56-23-5		U	10000	2500
Chlorobenzene	108-90-7		U	10000	1250
Chlorodibromomethane	124-48-1		U	10000	2500
Chloroethane	75-00-3		U	10000	5000
2-Chloroethyl vinyl ether	110-75-8		U	100000	20000
Chloroform	67-66-3		U	10000	1250
Chloromethane	74-87-3		U	10000	2500
2-Chlorotoluene	95-49-8		U	10000	1250
4-Chlorotoluene	106-43-4		U	10000	2500
1,2-Dibromo-3-chloropropane	96-12-8		U	50000	10000
1,2-Dibromoethane	106-93-4		U	10000	2500
Dibromomethane	74-95-3		U	10000	2500
1,2-Dichlorobenzene	95-50-1		U	10000	1250
1,3-Dichlorobenzene	541-73-1		U	10000	2500
1,4-Dichlorobenzene	106-46-7		U	10000	1250
Dichlorodifluoromethane	75-71-8		U	10000	2500
1,1-Dichloroethane	75-34-3		U	10000	1250
1,2-Dichloroethane	107-06-2		U	10000	2500
1,1-Dichloroethene	75-35-4		U	10000	5000
cis-1,2-Dichloroethene	156-59-2	3830	J	10000	2500
trans-1,2-Dichloroethene	156-60-5		U	10000	2500
1,2-Dichloropropane	78-87-5		U	10000	2000
1,3-Dichloropropane	142-28-9		U	10000	2000
2,2-Dichloropropane	594-20-7		U	10000	2500
cis-1,3-Dichloropropene	10061-01-5		U	10000	2500
trans-1,3-Dichloropropene	10061-02-6		U	10000	5000
1,1-Dichloropropene	563-58-6		U	10000	2500
Ethylbenzene	100-41-4		U	10000	2500
2-Hexanone	591-78-6		U	100000	25000
Hexachlorobutadiene	87-68-3		U	10000	2500
Isopropylbenzene	98-82-8		U	10000	2500
p-Isopropyltoluene	99-87-6		U	10000	2500
4-Methyl-2-pentanone	108-10-1		U	100000	25000
Methylene chloride	75-09-2	197000		50000	2500
Naphthalene	91-20-3		U	10000	2000
n-Propylbenzene	103-65-1		U	10000	1250
Styrene	100-42-5		U	10000	1250
1,1,1,2-Tetrachloroethane	630-20-6		U	10000	2500
1,1,2,2-Tetrachloroethane	79-34-5		U	10000	1250
Tetrachloroethene	127-18-4		U	10000	2500
Toluene	108-88-3		U	10000	2500
1,2,3-Trichlorobenzene	87-61-6		U	10000	1500
1,2,4-Trichlorobenzene	120-82-1		U	10000	2000
1,1,1-Trichloroethane	71-55-6		U	10000	2500
1,1,2-Trichloroethane	79-00-5		U	10000	2500
Trichloroethene	79-01-6	19200		10000	2500
Trichlorofluoromethane	75-69-4		U	10000	2500

Report Number: **L08100887**Report Date : **November 26, 2008**

00086442

Sample Number: **L08100887-03**
 Client ID: **ICT8-102908-FD**
 Matrix: **Water**
 Workgroup Number: **WG287340**
 Collect Date: **10/29/2008 08:30**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **10000**
 Units: **ug/L**

Instrument: **HPMS14**
 Prep Date: **11/09/2008 03:48**
 Cal Date: **10/11/2008 03:19**
 Run Date: **11/09/2008 03:48**
 File ID: **14M09721**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	10000	5000
1,2,4-Trimethylbenzene	95-63-6		U	10000	2500
1,3,5-Trimethylbenzene	108-67-8		U	10000	2500
Vinyl acetate	108-05-4		U	100000	25000
Vinyl chloride	75-01-4		U	10000	2500
o-Xylene	95-47-6		U	10000	2500
m-,p-Xylene	136777-61-2		U	10000	5000
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	111	86	118		
1,2-Dichloroethane-d4	138	80	120	*	
Toluene-d8	101	88	110		
4-Bromofluorobenzene	109	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: L08100887-04
 Client ID: ICT11-102908
 Matrix: Water
 Workgroup Number: WG287349
 Collect Date: 10/29/2008 08:10
 Sample Tag: DL02

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CAA
 Dilution: 25
 Units: ug/L

Instrument: HPMS6
 Prep Date: 11/09/2008 20:08
 Cal Date: 10/28/2008 21:12
 Run Date: 11/09/2008 20:08
 File ID: 6M79620

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	250	62.5
Benzene	71-43-2		U	25.0	3.13
Bromobenzene	108-86-1		U	25.0	3.13
Bromochloromethane	74-97-5		U	25.0	5.00
Bromodichloromethane	75-27-4		U	25.0	6.25
Bromoform	75-25-2		U	25.0	12.5
Bromomethane	74-83-9		U	25.0	12.5
2-Butanone	78-93-3		U	250	62.5
n-Butylbenzene	104-51-8		U	25.0	6.25
sec-Butylbenzene	135-98-8		U	25.0	6.25
tert-Butylbenzene	98-06-6		U	25.0	6.25
Carbon disulfide	75-15-0	18.3	J	25.0	12.5
Carbon tetrachloride	56-23-5		U	25.0	6.25
Chlorobenzene	108-90-7		U	25.0	3.13
Chlorodibromomethane	124-48-1		U	25.0	6.25
Chloroethane	75-00-3		U	25.0	12.5
2-Chloroethyl vinyl ether	110-75-8		U	250	50.0
Chloroform	67-66-3		U	25.0	3.13
Chloromethane	74-87-3		U	25.0	6.25
2-Chlorotoluene	95-49-8		U	25.0	3.13
4-Chlorotoluene	106-43-4		U	25.0	6.25
1,2-Dibromo-3-chloropropane	96-12-8		U	125	25.0
1,2-Dibromoethane	106-93-4		U	25.0	6.25
Dibromomethane	74-95-3		U	25.0	6.25
1,2-Dichlorobenzene	95-50-1		U	25.0	3.13
1,3-Dichlorobenzene	541-73-1		U	25.0	6.25
1,4-Dichlorobenzene	106-46-7		U	25.0	3.13
Dichlorodifluoromethane	75-71-8		U	25.0	6.25
1,1-Dichloroethane	75-34-3		U	25.0	3.13
1,2-Dichloroethane	107-06-2		U	25.0	6.25
1,1-Dichloroethene	75-35-4		U	25.0	12.5
cis-1,2-Dichloroethene	156-59-2	295		25.0	6.25
trans-1,2-Dichloroethene	156-60-5		U	25.0	6.25
1,2-Dichloropropane	78-87-5		U	25.0	5.00
1,3-Dichloropropane	142-28-9		U	25.0	5.00
2,2-Dichloropropane	594-20-7		U	25.0	6.25
cis-1,3-Dichloropropene	10061-01-5		U	25.0	6.25
trans-1,3-Dichloropropene	10061-02-6		U	25.0	12.5
1,1-Dichloropropene	563-58-6		U	25.0	6.25
Ethylbenzene	100-41-4		U	25.0	6.25
2-Hexanone	591-78-6		U	250	62.5
Hexachlorobutadiene	87-68-3		U	25.0	6.25
Isopropylbenzene	98-82-8		U	25.0	6.25
p-Isopropyltoluene	99-87-6		U	25.0	6.25
4-Methyl-2-pentanone	108-10-1		U	250	62.5
Methylene chloride	75-09-2	1860		125	6.25
Naphthalene	91-20-3		U	25.0	5.00
n-Propylbenzene	103-65-1		U	25.0	3.13
Styrene	100-42-5		U	25.0	3.13
1,1,1,2-Tetrachloroethane	630-20-6		U	25.0	6.25
1,1,2,2-Tetrachloroethane	79-34-5		U	25.0	3.13
Tetrachloroethene	127-18-4		U	25.0	6.25
Toluene	108-88-3		U	25.0	6.25
1,2,3-Trichlorobenzene	87-61-6		U	25.0	3.75
1,2,4-Trichlorobenzene	120-82-1		U	25.0	5.00
1,1,1-Trichloroethane	71-55-6		U	25.0	6.25
1,1,2-Trichloroethane	79-00-5		U	25.0	6.25
Trichloroethene	79-01-6	4560		25.0	6.25
Trichlorofluoromethane	75-69-4		U	25.0	6.25

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Sample Number: **L08100887-04**
 Client ID: **ICT11-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 08:10**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **25**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 20:08**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 20:08**
 File ID: **6M79620**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	25.0	12.5
1,2,4-Trimethylbenzene	95-63-6		U	25.0	6.25
1,3,5-Trimethylbenzene	108-67-8		U	25.0	6.25
Vinyl acetate	108-05-4		U	250	62.5
Vinyl chloride	75-01-4		U	25.0	6.25
o-Xylene	95-47-6		U	25.0	6.25
m-,p-Xylene	136777-61-2		U	25.0	12.5
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	112	86	118		
1,2-Dichloroethane-d4	111	80	120		
Toluene-d8	89.4	88	110		
4-Bromofluorobenzene	101	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-05**
Client ID: **ICT12B-102908**
Matrix: **Water**
Workgroup Number: **WG287338**
Collect Date: **10/29/2008 09:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MDA**
Dilution: **100**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/09/2008 00:57**
Cal Date: **10/28/2008 21:12**
Run Date: **11/09/2008 00:57**
File ID: **6M79589**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	1000	250
Benzene	71-43-2		U	100	12.5
Bromobenzene	108-86-1		U	100	12.5
Bromochloromethane	74-97-5		U	100	20.0
Bromodichloromethane	75-27-4		U	100	25.0
Bromoform	75-25-2		U	100	50.0
Bromomethane	74-83-9		U	100	50.0
2-Butanone	78-93-3		U	1000	250
n-Butylbenzene	104-51-8		U	100	25.0
sec-Butylbenzene	135-98-8		U	100	25.0
tert-Butylbenzene	98-06-6		U	100	25.0
Carbon disulfide	75-15-0		U	100	50.0
Carbon tetrachloride	56-23-5		U	100	25.0
Chlorobenzene	108-90-7		U	100	12.5
Chlorodibromomethane	124-48-1		U	100	25.0
Chloroethane	75-00-3		U	100	50.0
2-Chloroethyl vinyl ether	110-75-8		U	1000	200
Chloroform	67-66-3	55.5	J	100	12.5
Chloromethane	74-87-3		U	100	25.0
2-Chlorotoluene	95-49-8		U	100	12.5
4-Chlorotoluene	106-43-4		U	100	25.0
1,2-Dibromo-3-chloropropane	96-12-8		U	500	100
1,2-Dibromoethane	106-93-4		U	100	25.0
Dibromomethane	74-95-3		U	100	25.0
1,2-Dichlorobenzene	95-50-1		U	100	12.5
1,3-Dichlorobenzene	541-73-1		U	100	25.0
1,4-Dichlorobenzene	106-46-7		U	100	12.5
Dichlorodifluoromethane	75-71-8		U	100	25.0
1,1-Dichloroethane	75-34-3		U	100	12.5
1,2-Dichloroethane	107-06-2	103		100	25.0
1,1-Dichloroethene	75-35-4		U	100	50.0
cis-1,2-Dichloroethene	156-59-2	34.7	J	100	25.0
trans-1,2-Dichloroethene	156-60-5		U	100	25.0
1,2-Dichloropropane	78-87-5		U	100	20.0
1,3-Dichloropropane	142-28-9		U	100	20.0
2,2-Dichloropropane	594-20-7		U	100	25.0
cis-1,3-Dichloropropene	10061-01-5		U	100	25.0
trans-1,3-Dichloropropene	10061-02-6		U	100	50.0
1,1-Dichloropropene	563-58-6		U	100	25.0
Ethylbenzene	100-41-4		U	100	25.0
2-Hexanone	591-78-6		U	1000	250
Hexachlorobutadiene	87-68-3		U	100	25.0
Isopropylbenzene	98-82-8		U	100	25.0
p-Isopropyltoluene	99-87-6		U	100	25.0
4-Methyl-2-pentanone	108-10-1		U	1000	250
Methylene chloride	75-09-2	80.7	J	500	25.0
Naphthalene	91-20-3		U	100	20.0
n-Propylbenzene	103-65-1		U	100	12.5
Styrene	100-42-5		U	100	12.5
1,1,1,2-Tetrachloroethane	630-20-6		U	100	25.0
1,1,2,2-Tetrachloroethane	79-34-5		U	100	12.5
Tetrachloroethene	127-18-4		U	100	25.0
Toluene	108-88-3		U	100	25.0
1,2,3-Trichlorobenzene	87-61-6		U	100	15.0
1,2,4-Trichlorobenzene	120-82-1		U	100	20.0
1,1,1-Trichloroethane	71-55-6		U	100	25.0
1,1,2-Trichloroethane	79-00-5		U	100	25.0
Trichloroethene	79-01-6	10500		100	25.0
Trichlorofluoromethane	75-69-4		U	100	25.0

Report Number: **L08100887**Report Date : **November 26, 2008**

00086446

Sample Number: **L08100887-05**
 Client ID: **ICT12B-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 09:40**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 00:57**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 00:57**
 File ID: **6M79589**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	100	50.0
1,2,4-Trimethylbenzene	95-63-6		U	100	25.0
1,3,5-Trimethylbenzene	108-67-8		U	100	25.0
Vinyl acetate	108-05-4		U	1000	250
Vinyl chloride	75-01-4		U	100	25.0
o-Xylene	95-47-6		U	100	25.0
m-,p-Xylene	136777-61-2		U	100	50.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	110	86	118		
1,2-Dichloroethane-d4	104	80	120		
Toluene-d8	94.0	88	110		
4-Bromofluorobenzene	101	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-06**
 Client ID: **ICT12C-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 09:35**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 04:41**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 04:41**
 File ID: **6M79596**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	1000	250
Benzene	71-43-2		U	100	12.5
Bromobenzene	108-86-1		U	100	12.5
Bromochloromethane	74-97-5		U	100	20.0
Bromodichloromethane	75-27-4		U	100	25.0
Bromoform	75-25-2		U	100	50.0
Bromomethane	74-83-9		U	100	50.0
2-Butanone	78-93-3		U	1000	250
n-Butylbenzene	104-51-8		U	100	25.0
sec-Butylbenzene	135-98-8		U	100	25.0
tert-Butylbenzene	98-06-6		U	100	25.0
Carbon disulfide	75-15-0		U	100	50.0
Carbon tetrachloride	56-23-5		U	100	25.0
Chlorobenzene	108-90-7		U	100	12.5
Chlorodibromomethane	124-48-1		U	100	25.0
Chloroethane	75-00-3		U	100	50.0
2-Chloroethyl vinyl ether	110-75-8		U	1000	200
Chloroform	67-66-3	19.1	J	100	12.5
Chloromethane	74-87-3		U	100	25.0
2-Chlorotoluene	95-49-8		U	100	12.5
4-Chlorotoluene	106-43-4		U	100	25.0
1,2-Dibromo-3-chloropropane	96-12-8		U	500	100
1,2-Dibromoethane	106-93-4		U	100	25.0
Dibromomethane	74-95-3		U	100	25.0
1,2-Dichlorobenzene	95-50-1		U	100	12.5
1,3-Dichlorobenzene	541-73-1		U	100	25.0
1,4-Dichlorobenzene	106-46-7		U	100	12.5
Dichlorodifluoromethane	75-71-8		U	100	25.0
1,1-Dichloroethane	75-34-3		U	100	12.5
1,2-Dichloroethane	107-06-2	191		100	25.0
1,1-Dichloroethene	75-35-4		U	100	50.0
cis-1,2-Dichloroethene	156-59-2	449		100	25.0
trans-1,2-Dichloroethene	156-60-5		U	100	25.0
1,2-Dichloropropane	78-87-5		U	100	20.0
1,3-Dichloropropane	142-28-9		U	100	20.0
2,2-Dichloropropane	594-20-7		U	100	25.0
cis-1,3-Dichloropropene	10061-01-5		U	100	25.0
trans-1,3-Dichloropropene	10061-02-6		U	100	50.0
1,1-Dichloropropene	563-58-6		U	100	25.0
Ethylbenzene	100-41-4		U	100	25.0
2-Hexanone	591-78-6		U	1000	250
Hexachlorobutadiene	87-68-3		U	100	25.0
Isopropylbenzene	98-82-8		U	100	25.0
p-Isopropyltoluene	99-87-6		U	100	25.0
4-Methyl-2-pentanone	108-10-1		U	1000	250
Methylene chloride	75-09-2	310	J	500	25.0
Naphthalene	91-20-3		U	100	20.0
n-Propylbenzene	103-65-1		U	100	12.5
Styrene	100-42-5		U	100	12.5
1,1,1,2-Tetrachloroethane	630-20-6		U	100	25.0
1,1,2,2-Tetrachloroethane	79-34-5		U	100	12.5
Tetrachloroethene	127-18-4		U	100	25.0
Toluene	108-88-3		U	100	25.0
1,2,3-Trichlorobenzene	87-61-6		U	100	15.0
1,2,4-Trichlorobenzene	120-82-1		U	100	20.0
1,1,1-Trichloroethane	71-55-6		U	100	25.0
1,1,2-Trichloroethane	79-00-5		U	100	25.0
Trichloroethene	79-01-6	13700		100	25.0
Trichlorofluoromethane	75-69-4		U	100	25.0

Report Number: **L08100887**Report Date : **November 26, 2008**

00086448

Sample Number: **L08100887-06**
 Client ID: **ICT12C-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 09:35**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 04:41**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 04:41**
 File ID: **6M79596**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	100	50.0
1,2,4-Trimethylbenzene	95-63-6		U	100	25.0
1,3,5-Trimethylbenzene	108-67-8		U	100	25.0
Vinyl acetate	108-05-4		U	1000	250
Vinyl chloride	75-01-4		U	100	25.0
o-Xylene	95-47-6		U	100	25.0
m-,p-Xylene	136777-61-2		U	100	50.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	114	86	118		
1,2-Dichloroethane-d4	114	80	120		
Toluene-d8	91.6	88	110		
4-Bromofluorobenzene	99.1	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-07**
Client ID: **ICT12D-102908**
Matrix: **Water**
Workgroup Number: **WG287349**
Collect Date: **10/29/2008 09:30**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **250**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/09/2008 19:04**
Cal Date: **10/28/2008 21:12**
Run Date: **11/09/2008 19:04**
File ID: **6M79618**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	2500	625
Benzene	71-43-2		U	250	31.3
Bromobenzene	108-86-1		U	250	31.3
Bromochloromethane	74-97-5		U	250	50.0
Bromodichloromethane	75-27-4		U	250	62.5
Bromoform	75-25-2		U	250	125
Bromomethane	74-83-9		U	250	125
2-Butanone	78-93-3		U	2500	625
n-Butylbenzene	104-51-8		U	250	62.5
sec-Butylbenzene	135-98-8		U	250	62.5
tert-Butylbenzene	98-06-6		U	250	62.5
Carbon disulfide	75-15-0		U	250	125
Carbon tetrachloride	56-23-5		U	250	62.5
Chlorobenzene	108-90-7		U	250	31.3
Chlorodibromomethane	124-48-1		U	250	62.5
Chloroethane	75-00-3		U	250	125
2-Chloroethyl vinyl ether	110-75-8		U	2500	500
Chloroform	67-66-3	34.2	J	250	31.3
Chloromethane	74-87-3		U	250	62.5
2-Chlorotoluene	95-49-8		U	250	31.3
4-Chlorotoluene	106-43-4		U	250	62.5
1,2-Dibromo-3-chloropropane	96-12-8		U	1250	250
1,2-Dibromoethane	106-93-4		U	250	62.5
Dibromomethane	74-95-3		U	250	62.5
1,2-Dichlorobenzene	95-50-1		U	250	31.3
1,3-Dichlorobenzene	541-73-1		U	250	62.5
1,4-Dichlorobenzene	106-46-7		U	250	31.3
Dichlorodifluoromethane	75-71-8		U	250	62.5
1,1-Dichloroethane	75-34-3		U	250	31.3
1,2-Dichloroethane	107-06-2		U	250	62.5
1,1-Dichloroethene	75-35-4		U	250	125
cis-1,2-Dichloroethene	156-59-2	10900		250	62.5
trans-1,2-Dichloroethene	156-60-5		U	250	62.5
1,2-Dichloropropane	78-87-5		U	250	50.0
1,3-Dichloropropane	142-28-9		U	250	50.0
2,2-Dichloropropane	594-20-7		U	250	62.5
cis-1,3-Dichloropropene	10061-01-5		U	250	62.5
trans-1,3-Dichloropropene	10061-02-6		U	250	125
1,1-Dichloropropene	563-58-6		U	250	62.5
Ethylbenzene	100-41-4		U	250	62.5
2-Hexanone	591-78-6		U	2500	625
Hexachlorobutadiene	87-68-3		U	250	62.5
Isopropylbenzene	98-82-8		U	250	62.5
p-Isopropyltoluene	99-87-6		U	250	62.5
4-Methyl-2-pentanone	108-10-1		U	2500	625
Methylene chloride	75-09-2	29500		1250	62.5
Naphthalene	91-20-3		U	250	50.0
n-Propylbenzene	103-65-1		U	250	31.3
Styrene	100-42-5		U	250	31.3
1,1,1,2-Tetrachloroethane	630-20-6		U	250	62.5
1,1,2,2-Tetrachloroethane	79-34-5		U	250	31.3
Tetrachloroethene	127-18-4		U	250	62.5
Toluene	108-88-3		U	250	62.5
1,2,3-Trichlorobenzene	87-61-6		U	250	37.5
1,2,4-Trichlorobenzene	120-82-1		U	250	50.0
1,1,1-Trichloroethane	71-55-6		U	250	62.5
1,1,2-Trichloroethane	79-00-5		U	250	62.5
Trichloroethene	79-01-6	39000		250	62.5
Trichlorofluoromethane	75-69-4		U	250	62.5

Sample Number: **L08100887-07**
 Client ID: **ICT12D-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 09:30**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **250**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 19:04**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 19:04**
 File ID: **6M79618**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	250	125
1,2,4-Trimethylbenzene	95-63-6		U	250	62.5
1,3,5-Trimethylbenzene	108-67-8		U	250	62.5
Vinyl acetate	108-05-4		U	2500	625
Vinyl chloride	75-01-4	1370		250	62.5
o-Xylene	95-47-6		U	250	62.5
m-,p-Xylene	136777-61-2		U	250	125
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	112	86	118		
1,2-Dichloroethane-d4	107	80	120		
Toluene-d8	90.8	88	110		
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-08**
 Client ID: **ICT12E-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 09:25**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **2500**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 19:36**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 19:36**
 File ID: **6M79619**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	25000	6250
Benzene	71-43-2		U	2500	313
Bromobenzene	108-86-1		U	2500	313
Bromochloromethane	74-97-5		U	2500	500
Bromodichloromethane	75-27-4		U	2500	625
Bromoform	75-25-2		U	2500	1250
Bromomethane	74-83-9		U	2500	1250
2-Butanone	78-93-3		U	25000	6250
n-Butylbenzene	104-51-8		U	2500	625
sec-Butylbenzene	135-98-8		U	2500	625
tert-Butylbenzene	98-06-6		U	2500	625
Carbon disulfide	75-15-0		U	2500	1250
Carbon tetrachloride	56-23-5		U	2500	625
Chlorobenzene	108-90-7		U	2500	313
Chlorodibromomethane	124-48-1		U	2500	625
Chloroethane	75-00-3		U	2500	1250
2-Chloroethyl vinyl ether	110-75-8		U	25000	5000
Chloroform	67-66-3		U	2500	313
Chloromethane	74-87-3		U	2500	625
2-Chlorotoluene	95-49-8		U	2500	313
4-Chlorotoluene	106-43-4		U	2500	625
1,2-Dibromo-3-chloropropane	96-12-8		U	12500	2500
1,2-Dibromoethane	106-93-4		U	2500	625
Dibromomethane	74-95-3		U	2500	625
1,2-Dichlorobenzene	95-50-1		U	2500	313
1,3-Dichlorobenzene	541-73-1		U	2500	625
1,4-Dichlorobenzene	106-46-7		U	2500	313
Dichlorodifluoromethane	75-71-8		U	2500	625
1,1-Dichloroethane	75-34-3		U	2500	313
1,2-Dichloroethane	107-06-2		U	2500	625
1,1-Dichloroethene	75-35-4		U	2500	1250
cis-1,2-Dichloroethene	156-59-2	10900		2500	625
trans-1,2-Dichloroethene	156-60-5		U	2500	625
1,2-Dichloropropane	78-87-5		U	2500	500
1,3-Dichloropropane	142-28-9		U	2500	500
2,2-Dichloropropane	594-20-7		U	2500	625
cis-1,3-Dichloropropene	10061-01-5		U	2500	625
trans-1,3-Dichloropropene	10061-02-6		U	2500	1250
1,1-Dichloropropene	563-58-6		U	2500	625
Ethylbenzene	100-41-4		U	2500	625
2-Hexanone	591-78-6		U	25000	6250
Hexachlorobutadiene	87-68-3		U	2500	625
Isopropylbenzene	98-82-8		U	2500	625
p-Isopropyltoluene	99-87-6		U	2500	625
4-Methyl-2-pentanone	108-10-1		U	25000	6250
Methylene chloride	75-09-2	463000		12500	625
Naphthalene	91-20-3		U	2500	500
n-Propylbenzene	103-65-1		U	2500	313
Styrene	100-42-5		U	2500	313
1,1,1,2-Tetrachloroethane	630-20-6		U	2500	625
1,1,2,2-Tetrachloroethane	79-34-5		U	2500	313
Tetrachloroethene	127-18-4		U	2500	625
Toluene	108-88-3		U	2500	625
1,2,3-Trichlorobenzene	87-61-6		U	2500	375
1,2,4-Trichlorobenzene	120-82-1		U	2500	500
1,1,1-Trichloroethane	71-55-6		U	2500	625
1,1,2-Trichloroethane	79-00-5		U	2500	625
Trichloroethene	79-01-6	136000		2500	625
Trichlorofluoromethane	75-69-4		U	2500	625

Sample Number: **L08100887-08**
 Client ID: **ICT12E-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 09:25**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **2500**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 19:36**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 19:36**
 File ID: **6M79619**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	2500	1250
1,2,4-Trimethylbenzene	95-63-6		U	2500	625
1,3,5-Trimethylbenzene	108-67-8		U	2500	625
Vinyl acetate	108-05-4		U	25000	6250
Vinyl chloride	75-01-4		U	2500	625
o-Xylene	95-47-6		U	2500	625
m-,p-Xylene	136777-61-2		U	2500	1250
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	113	86	118		
1,2-Dichloroethane-d4	110	80	120		
Toluene-d8	89.7	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08100887-09**
Client ID: **ICT13F-102908**
Matrix: **Water**
Workgroup Number: **WG287402**
Collect Date: **10/29/2008 09:12**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/10/2008 20:03**
Cal Date: **11/03/2008 21:17**
Run Date: **11/10/2008 20:03**
File ID: **8M349617**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.401	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08100887-09**
 Client ID: **ICT13F-102908**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 09:12**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 20:03**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 20:03**
 File ID: **8M349617**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	94.0	86	118		
1,2-Dichloroethane-d4	94.3	80	120		
Toluene-d8	83.6	88	110	*	
4-Bromofluorobenzene	94.7	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: **L08100887-10**
Client ID: **ICT14A-102908**
Matrix: **Water**
Workgroup Number: **WG287349**
Collect Date: **10/29/2008 08:42**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/09/2008 18:01**
Cal Date: **10/28/2008 21:12**
Run Date: **11/09/2008 18:01**
File ID: **6M79616**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	399	I	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.535	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	1.48		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	12.5		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	68.4		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08100887-10**
 Client ID: **ICT14A-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 08:42**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 18:01**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 18:01**
 File ID: **6M79616**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	8.58		1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	122	86	118	*	
1,2-Dichloroethane-d4	113	80	120		
Toluene-d8	92.3	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

I Semiquantitative result (out of instrument calibration range)

Sample Number: L08100887-10
 Client ID: ICT14A-102908
 Matrix: Water
 Workgroup Number: WG287338
 Collect Date: 10/29/2008 08:42
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: MDA
 Dilution: 5
 Units: ug/L

Instrument: HPMS6
 Prep Date: 11/09/2008 01:29
 Cal Date: 10/28/2008 21:12
 Run Date: 11/09/2008 01:29
 File ID: 6M79590

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	341		50.0	12.5
Benzene	71-43-2		U	5.00	0.625
Bromobenzene	108-86-1		U	5.00	0.625
Bromochloromethane	74-97-5		U	5.00	1.00
Bromodichloromethane	75-27-4		U	5.00	1.25
Bromoform	75-25-2		U	5.00	2.50
Bromomethane	74-83-9		U	5.00	2.50
2-Butanone	78-93-3		U	50.0	12.5
n-Butylbenzene	104-51-8		U	5.00	1.25
sec-Butylbenzene	135-98-8		U	5.00	1.25
tert-Butylbenzene	98-06-6		U	5.00	1.25
Carbon disulfide	75-15-0		U	5.00	2.50
Carbon tetrachloride	56-23-5		U	5.00	1.25
Chlorobenzene	108-90-7		U	5.00	0.625
Chlorodibromomethane	124-48-1		U	5.00	1.25
Chloroethane	75-00-3		U	5.00	2.50
2-Chloroethyl vinyl ether	110-75-8		U	50.0	10.0
Chloroform	67-66-3		U	5.00	0.625
Chloromethane	74-87-3		U	5.00	1.25
2-Chlorotoluene	95-49-8		U	5.00	0.625
4-Chlorotoluene	106-43-4		U	5.00	1.25
1,2-Dibromo-3-chloropropane	96-12-8		U	25.0	5.00
1,2-Dibromoethane	106-93-4		U	5.00	1.25
Dibromomethane	74-95-3		U	5.00	1.25
1,2-Dichlorobenzene	95-50-1		U	5.00	0.625
1,3-Dichlorobenzene	541-73-1		U	5.00	1.25
1,4-Dichlorobenzene	106-46-7		U	5.00	0.625
Dichlorodifluoromethane	75-71-8		U	5.00	1.25
1,1-Dichloroethane	75-34-3		U	5.00	0.625
1,2-Dichloroethane	107-06-2		U	5.00	1.25
1,1-Dichloroethene	75-35-4		U	5.00	2.50
cis-1,2-Dichloroethene	156-59-2	10.1		5.00	1.25
trans-1,2-Dichloroethene	156-60-5		U	5.00	1.25
1,2-Dichloropropane	78-87-5		U	5.00	1.00
1,3-Dichloropropane	142-28-9		U	5.00	1.00
2,2-Dichloropropane	594-20-7		U	5.00	1.25
cis-1,3-Dichloropropene	10061-01-5		U	5.00	1.25
trans-1,3-Dichloropropene	10061-02-6		U	5.00	2.50
1,1-Dichloropropene	563-58-6		U	5.00	1.25
Ethylbenzene	100-41-4		U	5.00	1.25
2-Hexanone	591-78-6		U	50.0	12.5
Hexachlorobutadiene	87-68-3		U	5.00	1.25
Isopropylbenzene	98-82-8		U	5.00	1.25
p-Isopropyltoluene	99-87-6		U	5.00	1.25
4-Methyl-2-pentanone	108-10-1		U	50.0	12.5
Methylene chloride	75-09-2	2.05	J	25.0	1.25
Naphthalene	91-20-3		U	5.00	1.00
n-Propylbenzene	103-65-1		U	5.00	0.625
Styrene	100-42-5		U	5.00	0.625
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	1.25
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.625
Tetrachloroethene	127-18-4		U	5.00	1.25
Toluene	108-88-3		U	5.00	1.25
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.750
1,2,4-Trichlorobenzene	120-82-1		U	5.00	1.00
1,1,1-Trichloroethane	71-55-6		U	5.00	1.25
1,1,2-Trichloroethane	79-00-5		U	5.00	1.25
Trichloroethene	79-01-6	63.6		5.00	1.25
Trichlorofluoromethane	75-69-4		U	5.00	1.25

Sample Number: **L08100887-10**
 Client ID: **ICT14A-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 08:42**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **5**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 01:29**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 01:29**
 File ID: **6M79590**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	5.00	2.50
1,2,4-Trimethylbenzene	95-63-6		U	5.00	1.25
1,3,5-Trimethylbenzene	108-67-8		U	5.00	1.25
Vinyl acetate	108-05-4		U	50.0	12.5
Vinyl chloride	75-01-4	7.20		5.00	1.25
o-Xylene	95-47-6		U	5.00	1.25
m-,p-Xylene	136777-61-2		U	5.00	2.50
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	115	86	118		
1,2-Dichloroethane-d4	112	80	120		
Toluene-d8	90.9	88	110		
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: L08100887-11
 Client ID: ICT14B-102908
 Matrix: Water
 Workgroup Number: WG287402
 Collect Date: 10/29/2008 08:47
 Sample Tag: 01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CAA
 Dilution: 1
 Units: ug/L

Instrument: HPMS8
 Prep Date: 11/10/2008 13:40
 Cal Date: 11/03/2008 21:17
 Run Date: 11/10/2008 13:40
 File ID: 8M349605

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.644	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8	0.401	J	1.00	0.250
1,1-Dichloroethane	75-34-3	1.65		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	1.39		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	14.7		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	0.917	J	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4	0.373	J	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	146		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Report Number: **L08100887**Report Date : **November 26, 2008**

00086460

Sample Number: **L08100887-11**
 Client ID: **ICT14B-102908**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 08:47**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 13:40**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 13:40**
 File ID: **8M349605**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	11.8		1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	105	86	118		
1,2-Dichloroethane-d4	112	80	120		
Toluene-d8	93.1	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: L08100887-12
 Client ID: ICT14C-102908
 Matrix: Water
 Workgroup Number: WG287349
 Collect Date: 10/29/2008 08:51
 Sample Tag: DL02

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CAA
 Dilution: 250
 Units: ug/L

Instrument: HPMS6
 Prep Date: 11/09/2008 18:33
 Cal Date: 10/28/2008 21:12
 Run Date: 11/09/2008 18:33
 File ID: 6M79617

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	2500	625
Benzene	71-43-2		U	250	31.3
Bromobenzene	108-86-1		U	250	31.3
Bromochloromethane	74-97-5		U	250	50.0
Bromodichloromethane	75-27-4		U	250	62.5
Bromoform	75-25-2		U	250	125
Bromomethane	74-83-9		U	250	125
2-Butanone	78-93-3		U	2500	625
n-Butylbenzene	104-51-8		U	250	62.5
sec-Butylbenzene	135-98-8		U	250	62.5
tert-Butylbenzene	98-06-6		U	250	62.5
Carbon disulfide	75-15-0		U	250	125
Carbon tetrachloride	56-23-5		U	250	62.5
Chlorobenzene	108-90-7		U	250	31.3
Chlorodibromomethane	124-48-1		U	250	62.5
Chloroethane	75-00-3		U	250	125
2-Chloroethyl vinyl ether	110-75-8		U	2500	500
Chloroform	67-66-3		U	250	31.3
Chloromethane	74-87-3		U	250	62.5
2-Chlorotoluene	95-49-8		U	250	31.3
4-Chlorotoluene	106-43-4		U	250	62.5
1,2-Dibromo-3-chloropropane	96-12-8		U	1250	250
1,2-Dibromoethane	106-93-4		U	250	62.5
Dibromomethane	74-95-3		U	250	62.5
1,2-Dichlorobenzene	95-50-1		U	250	31.3
1,3-Dichlorobenzene	541-73-1		U	250	62.5
1,4-Dichlorobenzene	106-46-7		U	250	31.3
Dichlorodifluoromethane	75-71-8		U	250	62.5
1,1-Dichloroethane	75-34-3		U	250	31.3
1,2-Dichloroethane	107-06-2		U	250	62.5
1,1-Dichloroethene	75-35-4		U	250	125
cis-1,2-Dichloroethene	156-59-2	1020		250	62.5
trans-1,2-Dichloroethene	156-60-5		U	250	62.5
1,2-Dichloropropane	78-87-5		U	250	50.0
1,3-Dichloropropane	142-28-9		U	250	50.0
2,2-Dichloropropane	594-20-7		U	250	62.5
cis-1,3-Dichloropropene	10061-01-5		U	250	62.5
trans-1,3-Dichloropropene	10061-02-6		U	250	125
1,1-Dichloropropene	563-58-6		U	250	62.5
Ethylbenzene	100-41-4		U	250	62.5
2-Hexanone	591-78-6		U	2500	625
Hexachlorobutadiene	87-68-3		U	250	62.5
Isopropylbenzene	98-82-8		U	250	62.5
p-Isopropyltoluene	99-87-6		U	250	62.5
4-Methyl-2-pentanone	108-10-1		U	2500	625
Methylene chloride	75-09-2	122	J	1250	62.5
Naphthalene	91-20-3		U	250	50.0
n-Propylbenzene	103-65-1		U	250	31.3
Styrene	100-42-5		U	250	31.3
1,1,1,2-Tetrachloroethane	630-20-6		U	250	62.5
1,1,2,2-Tetrachloroethane	79-34-5		U	250	31.3
Tetrachloroethene	127-18-4		U	250	62.5
Toluene	108-88-3		U	250	62.5
1,2,3-Trichlorobenzene	87-61-6		U	250	37.5
1,2,4-Trichlorobenzene	120-82-1		U	250	50.0
1,1,1-Trichloroethane	71-55-6		U	250	62.5
1,1,2-Trichloroethane	79-00-5		U	250	62.5
Trichloroethene	79-01-6	13400		250	62.5
Trichlorofluoromethane	75-69-4		U	250	62.5

Report Number: **L08100887**Report Date : **November 26, 2008**

00086462

Sample Number: **L08100887-12**
 Client ID: **ICT14C-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 08:51**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **250**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 18:33**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 18:33**
 File ID: **6M79617**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	250	125
1,2,4-Trimethylbenzene	95-63-6		U	250	62.5
1,3,5-Trimethylbenzene	108-67-8		U	250	62.5
Vinyl acetate	108-05-4		U	2500	625
Vinyl chloride	75-01-4		U	250	62.5
o-Xylene	95-47-6		U	250	62.5
m-,p-Xylene	136777-61-2		U	250	125
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	109	86	118		
1,2-Dichloroethane-d4	105	80	120		
Toluene-d8	92.7	88	110		
4-Bromofluorobenzene	99.5	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: L08100887-12
 Client ID: ICT14C-102908
 Matrix: Water
 Workgroup Number: WG287338
 Collect Date: 10/29/2008 08:51
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: MDA
 Dilution: 50
 Units: ug/L

Instrument: HPMS6
 Prep Date: 11/09/2008 02:33
 Cal Date: 10/28/2008 21:12
 Run Date: 11/09/2008 02:33
 File ID: 6M79592

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	500	125
Benzene	71-43-2		U	50.0	6.25
Bromobenzene	108-86-1		U	50.0	6.25
Bromochloromethane	74-97-5		U	50.0	10.0
Bromodichloromethane	75-27-4		U	50.0	12.5
Bromoform	75-25-2		U	50.0	25.0
Bromomethane	74-83-9		U	50.0	25.0
2-Butanone	78-93-3		U	500	125
n-Butylbenzene	104-51-8		U	50.0	12.5
sec-Butylbenzene	135-98-8		U	50.0	12.5
tert-Butylbenzene	98-06-6		U	50.0	12.5
Carbon disulfide	75-15-0		U	50.0	25.0
Carbon tetrachloride	56-23-5		U	50.0	12.5
Chlorobenzene	108-90-7		U	50.0	6.25
Chlorodibromomethane	124-48-1		U	50.0	12.5
Chloroethane	75-00-3		U	50.0	25.0
2-Chloroethyl vinyl ether	110-75-8		U	500	100
Chloroform	67-66-3	31.2	J	50.0	6.25
Chloromethane	74-87-3		U	50.0	12.5
2-Chlorotoluene	95-49-8		U	50.0	6.25
4-Chlorotoluene	106-43-4		U	50.0	12.5
1,2-Dibromo-3-chloropropane	96-12-8		U	250	50.0
1,2-Dibromoethane	106-93-4		U	50.0	12.5
Dibromomethane	74-95-3		U	50.0	12.5
1,2-Dichlorobenzene	95-50-1		U	50.0	6.25
1,3-Dichlorobenzene	541-73-1		U	50.0	12.5
1,4-Dichlorobenzene	106-46-7		U	50.0	6.25
Dichlorodifluoromethane	75-71-8		U	50.0	12.5
1,1-Dichloroethane	75-34-3	15.0	J	50.0	6.25
1,2-Dichloroethane	107-06-2		U	50.0	12.5
1,1-Dichloroethene	75-35-4	81.4		50.0	25.0
cis-1,2-Dichloroethene	156-59-2	1050		50.0	12.5
trans-1,2-Dichloroethene	156-60-5	32.1	J	50.0	12.5
1,2-Dichloropropane	78-87-5		U	50.0	10.0
1,3-Dichloropropane	142-28-9		U	50.0	10.0
2,2-Dichloropropane	594-20-7		U	50.0	12.5
cis-1,3-Dichloropropene	10061-01-5		U	50.0	12.5
trans-1,3-Dichloropropene	10061-02-6		U	50.0	25.0
1,1-Dichloropropene	563-58-6		U	50.0	12.5
Ethylbenzene	100-41-4		U	50.0	12.5
2-Hexanone	591-78-6		U	500	125
Hexachlorobutadiene	87-68-3		U	50.0	12.5
Isopropylbenzene	98-82-8		U	50.0	12.5
p-Isopropyltoluene	99-87-6		U	50.0	12.5
4-Methyl-2-pentanone	108-10-1		U	500	125
Methylene chloride	75-09-2	15.0	J	250	12.5
Naphthalene	91-20-3		U	50.0	10.0
n-Propylbenzene	103-65-1		U	50.0	6.25
Styrene	100-42-5		U	50.0	6.25
1,1,1,2-Tetrachloroethane	630-20-6		U	50.0	12.5
1,1,2,2-Tetrachloroethane	79-34-5		U	50.0	6.25
Tetrachloroethene	127-18-4	21.5	J	50.0	12.5
Toluene	108-88-3		U	50.0	12.5
1,2,3-Trichlorobenzene	87-61-6		U	50.0	7.50
1,2,4-Trichlorobenzene	120-82-1		U	50.0	10.0
1,1,1-Trichloroethane	71-55-6		U	50.0	12.5
1,1,2-Trichloroethane	79-00-5		U	50.0	12.5
Trichloroethene	79-01-6	14000	I	50.0	12.5
Trichlorofluoromethane	75-69-4		U	50.0	12.5

Sample Number: **L08100887-12**
 Client ID: **ICT14C-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 08:51**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 02:33**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 02:33**
 File ID: **6M79592**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	50.0	25.0
1,2,4-Trimethylbenzene	95-63-6		U	50.0	12.5
1,3,5-Trimethylbenzene	108-67-8		U	50.0	12.5
Vinyl acetate	108-05-4		U	500	125
Vinyl chloride	75-01-4	127		50.0	12.5
o-Xylene	95-47-6		U	50.0	12.5
m-,p-Xylene	136777-61-2		U	50.0	25.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	113	86	118		
1,2-Dichloroethane-d4	113	80	120		
Toluene-d8	92.5	88	110		
4-Bromofluorobenzene	101	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L08100887-13**
Client ID: **ICT14D-102908**
Matrix: **Water**
Workgroup Number: **WG287385**
Collect Date: **10/29/2008 08:55**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **500**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/10/2008 10:39**
Cal Date: **10/28/2008 21:12**
Run Date: **11/10/2008 10:39**
File ID: **6M79642**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	5000	1250
Benzene	71-43-2		U	500	62.5
Bromobenzene	108-86-1		U	500	62.5
Bromochloromethane	74-97-5		U	500	100
Bromodichloromethane	75-27-4		U	500	125
Bromoform	75-25-2		U	500	250
Bromomethane	74-83-9		U	500	250
2-Butanone	78-93-3		U	5000	1250
n-Butylbenzene	104-51-8		U	500	125
sec-Butylbenzene	135-98-8		U	500	125
tert-Butylbenzene	98-06-6		U	500	125
Carbon disulfide	75-15-0	550		500	250
Carbon tetrachloride	56-23-5		U	500	125
Chlorobenzene	108-90-7		U	500	62.5
Chlorodibromomethane	124-48-1		U	500	125
Chloroethane	75-00-3		U	500	250
2-Chloroethyl vinyl ether	110-75-8		U	5000	1000
Chloroform	67-66-3		U	500	62.5
Chloromethane	74-87-3		U	500	125
2-Chlorotoluene	95-49-8		U	500	62.5
4-Chlorotoluene	106-43-4		U	500	125
1,2-Dibromo-3-chloropropane	96-12-8		U	2500	500
1,2-Dibromoethane	106-93-4		U	500	125
Dibromomethane	74-95-3		U	500	125
1,2-Dichlorobenzene	95-50-1		U	500	62.5
1,3-Dichlorobenzene	541-73-1		U	500	125
1,4-Dichlorobenzene	106-46-7		U	500	62.5
Dichlorodifluoromethane	75-71-8		U	500	125
1,1-Dichloroethane	75-34-3		U	500	62.5
1,2-Dichloroethane	107-06-2		U	500	125
1,1-Dichloroethene	75-35-4		U	500	250
cis-1,2-Dichloroethene	156-59-2	1900		500	125
trans-1,2-Dichloroethene	156-60-5		U	500	125
1,2-Dichloropropane	78-87-5		U	500	100
1,3-Dichloropropane	142-28-9		U	500	100
2,2-Dichloropropane	594-20-7		U	500	125
cis-1,3-Dichloropropene	10061-01-5		U	500	125
trans-1,3-Dichloropropene	10061-02-6		U	500	250
1,1-Dichloropropene	563-58-6		U	500	125
Ethylbenzene	100-41-4		U	500	125
2-Hexanone	591-78-6		U	5000	1250
Hexachlorobutadiene	87-68-3		U	500	125
Isopropylbenzene	98-82-8		U	500	125
p-Isopropyltoluene	99-87-6		U	500	125
4-Methyl-2-pentanone	108-10-1		U	5000	1250
Methylene chloride	75-09-2	2810		2500	125
Naphthalene	91-20-3		U	500	100
n-Propylbenzene	103-65-1	198	J	500	62.5
Styrene	100-42-5		U	500	62.5
1,1,1,2-Tetrachloroethane	630-20-6		U	500	125
1,1,2,2-Tetrachloroethane	79-34-5		U	500	62.5
Tetrachloroethene	127-18-4		U	500	125
Toluene	108-88-3		U	500	125
1,2,3-Trichlorobenzene	87-61-6		U	500	75.0
1,2,4-Trichlorobenzene	120-82-1		U	500	100
1,1,1-Trichloroethane	71-55-6		U	500	125
1,1,2-Trichloroethane	79-00-5		U	500	125
Trichloroethene	79-01-6	22600		500	125
Trichlorofluoromethane	75-69-4		U	500	125

Report Number: **L08100887**Report Date : **November 26, 2008**

00086466

Sample Number: **L08100887-13**
 Client ID: **ICT14D-102908**
 Matrix: **Water**
 Workgroup Number: **WG287385**
 Collect Date: **10/29/2008 08:55**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **500**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/10/2008 10:39**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/10/2008 10:39**
 File ID: **6M79642**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	500	250
1,2,4-Trimethylbenzene	95-63-6		U	500	125
1,3,5-Trimethylbenzene	108-67-8		U	500	125
Vinyl acetate	108-05-4		U	5000	1250
Vinyl chloride	75-01-4		U	500	125
o-Xylene	95-47-6		U	500	125
m-,p-Xylene	136777-61-2		U	500	250
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	112	86	118		
1,2-Dichloroethane-d4	106	80	120		
Toluene-d8	92.3	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-13**
Client ID: **ICT14D-102908**
Matrix: **Water**
Workgroup Number: **WG287338**
Collect Date: **10/29/2008 08:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MDA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/08/2008 21:18**
Cal Date: **10/28/2008 21:12**
Run Date: **11/08/2008 21:18**
File ID: **6M79583**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	1700	I	10.0	2.50
Benzene	71-43-2	5.15		1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5	0.703	J	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	53.1		1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8	12.9		1.00	0.250
1,1-Dichloroethane	75-34-3	41.5		1.00	0.125
1,2-Dichloroethane	107-06-2	59.1		1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	1800	I	1.00	0.250
trans-1,2-Dichloroethene	156-60-5	47.8		1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4	1.02		1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8	0.734	J	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	1880	I	5.00	0.250
Naphthalene	91-20-3	0.271	J	1.00	0.200
n-Propylbenzene	103-65-1	0.435	J	1.00	0.125
Styrene	100-42-5	1.14		1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4	18.8		1.00	0.250
Toluene	108-88-3	2.63		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6	0.889	J	1.00	0.250
1,1,2-Trichloroethane	79-00-5	8.98		1.00	0.250
Trichloroethene	79-01-6	4190	I	1.00	0.250
Trichlorofluoromethane	75-69-4	1.59		1.00	0.250

Sample Number: **L08100887-13**
 Client ID: **ICT14D-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 08:55**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/08/2008 21:18**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/08/2008 21:18**
 File ID: **6M79583**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.466	J	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8	0.736	J	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	173	I	1.00	0.250
o-Xylene	95-47-6	0.957	J	1.00	0.250
m-,p-Xylene	136777-61-2	1.37		1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	115	86	118		
1,2-Dichloroethane-d4	104	80	120		
Toluene-d8	88.7	88	110		
4-Bromofluorobenzene	101	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL
 I Semiquantitative result (out of instrument calibration range)

Sample Number: **L08100887-13**
Client ID: **ICT14D-102908**
Matrix: **Water**
Workgroup Number: **WG287349**
Collect Date: **10/29/2008 08:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **100**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/09/2008 21:44**
Cal Date: **10/28/2008 21:12**
Run Date: **11/09/2008 21:44**
File ID: **6M79623**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	2170		1000	250
Benzene	71-43-2		U	100	12.5
Bromobenzene	108-86-1		U	100	12.5
Bromochloromethane	74-97-5		U	100	20.0
Bromodichloromethane	75-27-4		U	100	25.0
Bromoform	75-25-2		U	100	50.0
Bromomethane	74-83-9		U	100	50.0
2-Butanone	78-93-3		U	1000	250
n-Butylbenzene	104-51-8		U	100	25.0
sec-Butylbenzene	135-98-8		U	100	25.0
tert-Butylbenzene	98-06-6		U	100	25.0
Carbon disulfide	75-15-0		U	100	50.0
Carbon tetrachloride	56-23-5		U	100	25.0
Chlorobenzene	108-90-7		U	100	12.5
Chlorodibromomethane	124-48-1		U	100	25.0
Chloroethane	75-00-3		U	100	50.0
2-Chloroethyl vinyl ether	110-75-8		U	1000	200
Chloroform	67-66-3	44.7	J	100	12.5
Chloromethane	74-87-3		U	100	25.0
2-Chlorotoluene	95-49-8		U	100	12.5
4-Chlorotoluene	106-43-4		U	100	25.0
1,2-Dibromo-3-chloropropane	96-12-8		U	500	100
1,2-Dibromoethane	106-93-4		U	100	25.0
Dibromomethane	74-95-3		U	100	25.0
1,2-Dichlorobenzene	95-50-1		U	100	12.5
1,3-Dichlorobenzene	541-73-1		U	100	25.0
1,4-Dichlorobenzene	106-46-7		U	100	12.5
Dichlorodifluoromethane	75-71-8		U	100	25.0
1,1-Dichloroethane	75-34-3	33.1	J	100	12.5
1,2-Dichloroethane	107-06-2	70.1	J	100	25.0
1,1-Dichloroethene	75-35-4	156		100	50.0
cis-1,2-Dichloroethene	156-59-2	1690		100	25.0
trans-1,2-Dichloroethene	156-60-5	32.2	J	100	25.0
1,2-Dichloropropane	78-87-5		U	100	20.0
1,3-Dichloropropane	142-28-9		U	100	20.0
2,2-Dichloropropane	594-20-7		U	100	25.0
cis-1,3-Dichloropropene	10061-01-5		U	100	25.0
trans-1,3-Dichloropropene	10061-02-6		U	100	50.0
1,1-Dichloropropene	563-58-6		U	100	25.0
Ethylbenzene	100-41-4		U	100	25.0
2-Hexanone	591-78-6		U	1000	250
Hexachlorobutadiene	87-68-3		U	100	25.0
Isopropylbenzene	98-82-8		U	100	25.0
p-Isopropyltoluene	99-87-6		U	100	25.0
4-Methyl-2-pentanone	108-10-1		U	1000	250
Methylene chloride	75-09-2	2770		500	25.0
Naphthalene	91-20-3		U	100	20.0
n-Propylbenzene	103-65-1		U	100	12.5
Styrene	100-42-5		U	100	12.5
1,1,1,2-Tetrachloroethane	630-20-6		U	100	25.0
1,1,2,2-Tetrachloroethane	79-34-5		U	100	12.5
Tetrachloroethene	127-18-4		U	100	25.0
Toluene	108-88-3		U	100	25.0
1,2,3-Trichlorobenzene	87-61-6		U	100	15.0
1,2,4-Trichlorobenzene	120-82-1		U	100	20.0
1,1,1-Trichloroethane	71-55-6		U	100	25.0
1,1,2-Trichloroethane	79-00-5		U	100	25.0
Trichloroethene	79-01-6	24600	I	100	25.0
Trichlorofluoromethane	75-69-4		U	100	25.0

Sample Number: **L08100887-13**
 Client ID: **ICT14D-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 08:55**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 21:44**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 21:44**
 File ID: **6M79623**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	100	50.0
1,2,4-Trimethylbenzene	95-63-6		U	100	25.0
1,3,5-Trimethylbenzene	108-67-8		U	100	25.0
Vinyl acetate	108-05-4		U	1000	250
Vinyl chloride	75-01-4	102		100	25.0
o-Xylene	95-47-6		U	100	25.0
m-,p-Xylene	136777-61-2		U	100	50.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	116	86	118		
1,2-Dichloroethane-d4	117	80	120		
Toluene-d8	92.9	88	110		
4-Bromofluorobenzene	99.6	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L08100887-14**
Client ID: **EW01-102908**
Matrix: **Water**
Workgroup Number: **WG287338**
Collect Date: **10/29/2008 08:22**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MDA**
Dilution: **10000**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/09/2008 03:37**
Cal Date: **10/28/2008 21:12**
Run Date: **11/09/2008 03:37**
File ID: **6M79594**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	100000	25000
Benzene	71-43-2		U	10000	1250
Bromobenzene	108-86-1		U	10000	1250
Bromochloromethane	74-97-5		U	10000	2000
Bromodichloromethane	75-27-4		U	10000	2500
Bromoform	75-25-2		U	10000	5000
Bromomethane	74-83-9		U	10000	5000
2-Butanone	78-93-3		U	100000	25000
n-Butylbenzene	104-51-8		U	10000	2500
sec-Butylbenzene	135-98-8		U	10000	2500
tert-Butylbenzene	98-06-6		U	10000	2500
Carbon disulfide	75-15-0		U	10000	5000
Carbon tetrachloride	56-23-5		U	10000	2500
Chlorobenzene	108-90-7		U	10000	1250
Chlorodibromomethane	124-48-1		U	10000	2500
Chloroethane	75-00-3		U	10000	5000
2-Chloroethyl vinyl ether	110-75-8		U	100000	20000
Chloroform	67-66-3		U	10000	1250
Chloromethane	74-87-3		U	10000	2500
2-Chlorotoluene	95-49-8		U	10000	1250
4-Chlorotoluene	106-43-4		U	10000	2500
1,2-Dibromo-3-chloropropane	96-12-8		U	50000	10000
1,2-Dibromoethane	106-93-4		U	10000	2500
Dibromomethane	74-95-3		U	10000	2500
1,2-Dichlorobenzene	95-50-1		U	10000	1250
1,3-Dichlorobenzene	541-73-1		U	10000	2500
1,4-Dichlorobenzene	106-46-7		U	10000	1250
Dichlorodifluoromethane	75-71-8		U	10000	2500
1,1-Dichloroethane	75-34-3		U	10000	1250
1,2-Dichloroethane	107-06-2		U	10000	2500
1,1-Dichloroethene	75-35-4		U	10000	5000
cis-1,2-Dichloroethene	156-59-2	45800		10000	2500
trans-1,2-Dichloroethene	156-60-5		U	10000	2500
1,2-Dichloropropane	78-87-5		U	10000	2000
1,3-Dichloropropane	142-28-9		U	10000	2000
2,2-Dichloropropane	594-20-7		U	10000	2500
cis-1,3-Dichloropropene	10061-01-5		U	10000	2500
trans-1,3-Dichloropropene	10061-02-6		U	10000	5000
1,1-Dichloropropene	563-58-6		U	10000	2500
Ethylbenzene	100-41-4		U	10000	2500
2-Hexanone	591-78-6		U	100000	25000
Hexachlorobutadiene	87-68-3		U	10000	2500
Isopropylbenzene	98-82-8		U	10000	2500
p-Isopropyltoluene	99-87-6		U	10000	2500
4-Methyl-2-pentanone	108-10-1		U	100000	25000
Methylene chloride	75-09-2	1340000		50000	2500
Naphthalene	91-20-3		U	10000	2000
n-Propylbenzene	103-65-1		U	10000	1250
Styrene	100-42-5		U	10000	1250
1,1,1,2-Tetrachloroethane	630-20-6		U	10000	2500
1,1,2,2-Tetrachloroethane	79-34-5		U	10000	1250
Tetrachloroethene	127-18-4		U	10000	2500
Toluene	108-88-3		U	10000	2500
1,2,3-Trichlorobenzene	87-61-6		U	10000	1500
1,2,4-Trichlorobenzene	120-82-1		U	10000	2000
1,1,1-Trichloroethane	71-55-6		U	10000	2500
1,1,2-Trichloroethane	79-00-5		U	10000	2500
Trichloroethene	79-01-6	98500		10000	2500
Trichlorofluoromethane	75-69-4		U	10000	2500

Sample Number: **L08100887-14**
 Client ID: **EW01-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 08:22**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **10000**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 03:37**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 03:37**
 File ID: **6M79594**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	10000	5000
1,2,4-Trimethylbenzene	95-63-6		U	10000	2500
1,3,5-Trimethylbenzene	108-67-8		U	10000	2500
Vinyl acetate	108-05-4		U	100000	25000
Vinyl chloride	75-01-4		U	10000	2500
o-Xylene	95-47-6		U	10000	2500
m-,p-Xylene	136777-61-2		U	10000	5000
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	112	86	118		
1,2-Dichloroethane-d4	114	80	120		
Toluene-d8	92.9	88	110		
4-Bromofluorobenzene	99.4	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08100887-15**
Client ID: **EW01-102908-FD**
Matrix: **Water**
Workgroup Number: **WG287338**
Collect Date: **10/29/2008 08:22**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **MDA**
Dilution: **10000**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/09/2008 04:09**
Cal Date: **10/28/2008 21:12**
Run Date: **11/09/2008 04:09**
File ID: **6M79595**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	100000	25000
Benzene	71-43-2		U	10000	1250
Bromobenzene	108-86-1		U	10000	1250
Bromochloromethane	74-97-5		U	10000	2000
Bromodichloromethane	75-27-4		U	10000	2500
Bromoform	75-25-2		U	10000	5000
Bromomethane	74-83-9		U	10000	5000
2-Butanone	78-93-3		U	100000	25000
n-Butylbenzene	104-51-8		U	10000	2500
sec-Butylbenzene	135-98-8		U	10000	2500
tert-Butylbenzene	98-06-6		U	10000	2500
Carbon disulfide	75-15-0		U	10000	5000
Carbon tetrachloride	56-23-5		U	10000	2500
Chlorobenzene	108-90-7		U	10000	1250
Chlorodibromomethane	124-48-1		U	10000	2500
Chloroethane	75-00-3		U	10000	5000
2-Chloroethyl vinyl ether	110-75-8		U	100000	20000
Chloroform	67-66-3		U	10000	1250
Chloromethane	74-87-3		U	10000	2500
2-Chlorotoluene	95-49-8		U	10000	1250
4-Chlorotoluene	106-43-4		U	10000	2500
1,2-Dibromo-3-chloropropane	96-12-8		U	50000	10000
1,2-Dibromoethane	106-93-4		U	10000	2500
Dibromomethane	74-95-3		U	10000	2500
1,2-Dichlorobenzene	95-50-1		U	10000	1250
1,3-Dichlorobenzene	541-73-1		U	10000	2500
1,4-Dichlorobenzene	106-46-7		U	10000	1250
Dichlorodifluoromethane	75-71-8		U	10000	2500
1,1-Dichloroethane	75-34-3		U	10000	1250
1,2-Dichloroethane	107-06-2		U	10000	2500
1,1-Dichloroethene	75-35-4		U	10000	5000
cis-1,2-Dichloroethene	156-59-2	48300		10000	2500
trans-1,2-Dichloroethene	156-60-5		U	10000	2500
1,2-Dichloropropane	78-87-5		U	10000	2000
1,3-Dichloropropane	142-28-9		U	10000	2000
2,2-Dichloropropane	594-20-7		U	10000	2500
cis-1,3-Dichloropropene	10061-01-5		U	10000	2500
trans-1,3-Dichloropropene	10061-02-6		U	10000	5000
1,1-Dichloropropene	563-58-6		U	10000	2500
Ethylbenzene	100-41-4		U	10000	2500
2-Hexanone	591-78-6		U	100000	25000
Hexachlorobutadiene	87-68-3		U	10000	2500
Isopropylbenzene	98-82-8		U	10000	2500
p-Isopropyltoluene	99-87-6		U	10000	2500
4-Methyl-2-pentanone	108-10-1		U	100000	25000
Methylene chloride	75-09-2	1280000		50000	2500
Naphthalene	91-20-3		U	10000	2000
n-Propylbenzene	103-65-1		U	10000	1250
Styrene	100-42-5		U	10000	1250
1,1,1,2-Tetrachloroethane	630-20-6		U	10000	2500
1,1,2,2-Tetrachloroethane	79-34-5		U	10000	1250
Tetrachloroethene	127-18-4		U	10000	2500
Toluene	108-88-3		U	10000	2500
1,2,3-Trichlorobenzene	87-61-6		U	10000	1500
1,2,4-Trichlorobenzene	120-82-1		U	10000	2000
1,1,1-Trichloroethane	71-55-6		U	10000	2500
1,1,2-Trichloroethane	79-00-5		U	10000	2500
Trichloroethene	79-01-6	95900		10000	2500
Trichlorofluoromethane	75-69-4		U	10000	2500

Sample Number: **L08100887-15**
 Client ID: **EW01-102908-FD**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 08:22**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **10000**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 04:09**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 04:09**
 File ID: **6M79595**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	10000	5000
1,2,4-Trimethylbenzene	95-63-6		U	10000	2500
1,3,5-Trimethylbenzene	108-67-8		U	10000	2500
Vinyl acetate	108-05-4		U	100000	25000
Vinyl chloride	75-01-4		U	10000	2500
o-Xylene	95-47-6		U	10000	2500
m-,p-Xylene	136777-61-2		U	10000	5000
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	113	86	118		
1,2-Dichloroethane-d4	113	80	120		
Toluene-d8	92.8	88	110		
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08100887-16**
Client ID: **18WW17-102908**
Matrix: **Water**
Workgroup Number: **WG287402**
Collect Date: **10/29/2008 09:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/10/2008 20:35**
Cal Date: **11/03/2008 21:17**
Run Date: **11/10/2008 20:35**
File ID: **8M349618**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.190	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.405	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	42.3		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Report Number: **L08100887**Report Date : **November 26, 2008**

00086476

Sample Number: **L08100887-16**
 Client ID: **18WW17-102908**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 09:05**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 20:35**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 20:35**
 File ID: **8M349618**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	95.1	86	118		
1,2-Dichloroethane-d4	91.7	80	120		
Toluene-d8	93.9	88	110		
4-Bromofluorobenzene	96.4	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: L08100887-17
 Client ID: ICT4-102908
 Matrix: Water
 Workgroup Number: WG287338
 Collect Date: 10/29/2008 09:50
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: MDA
 Dilution: 50
 Units: ug/L

Instrument: HPMS6
 Prep Date: 11/09/2008 05:13
 Cal Date: 10/28/2008 21:12
 Run Date: 11/09/2008 05:13
 File ID: 6M79597

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	500	125
Benzene	71-43-2		U	50.0	6.25
Bromobenzene	108-86-1		U	50.0	6.25
Bromochloromethane	74-97-5		U	50.0	10.0
Bromodichloromethane	75-27-4		U	50.0	12.5
Bromoform	75-25-2		U	50.0	25.0
Bromomethane	74-83-9		U	50.0	25.0
2-Butanone	78-93-3		U	500	125
n-Butylbenzene	104-51-8		U	50.0	12.5
sec-Butylbenzene	135-98-8		U	50.0	12.5
tert-Butylbenzene	98-06-6		U	50.0	12.5
Carbon disulfide	75-15-0		U	50.0	25.0
Carbon tetrachloride	56-23-5		U	50.0	12.5
Chlorobenzene	108-90-7		U	50.0	6.25
Chlorodibromomethane	124-48-1		U	50.0	12.5
Chloroethane	75-00-3		U	50.0	25.0
2-Chloroethyl vinyl ether	110-75-8		U	500	100
Chloroform	67-66-3	25.1	J	50.0	6.25
Chloromethane	74-87-3		U	50.0	12.5
2-Chlorotoluene	95-49-8		U	50.0	6.25
4-Chlorotoluene	106-43-4		U	50.0	12.5
1,2-Dibromo-3-chloropropane	96-12-8		U	250	50.0
1,2-Dibromoethane	106-93-4		U	50.0	12.5
Dibromomethane	74-95-3		U	50.0	12.5
1,2-Dichlorobenzene	95-50-1		U	50.0	6.25
1,3-Dichlorobenzene	541-73-1		U	50.0	12.5
1,4-Dichlorobenzene	106-46-7		U	50.0	6.25
Dichlorodifluoromethane	75-71-8		U	50.0	12.5
1,1-Dichloroethane	75-34-3		U	50.0	6.25
1,2-Dichloroethane	107-06-2	431		50.0	12.5
1,1-Dichloroethene	75-35-4		U	50.0	25.0
cis-1,2-Dichloroethene	156-59-2	109		50.0	12.5
trans-1,2-Dichloroethene	156-60-5		U	50.0	12.5
1,2-Dichloropropane	78-87-5		U	50.0	10.0
1,3-Dichloropropane	142-28-9		U	50.0	10.0
2,2-Dichloropropane	594-20-7		U	50.0	12.5
cis-1,3-Dichloropropene	10061-01-5		U	50.0	12.5
trans-1,3-Dichloropropene	10061-02-6		U	50.0	25.0
1,1-Dichloropropene	563-58-6		U	50.0	12.5
Ethylbenzene	100-41-4		U	50.0	12.5
2-Hexanone	591-78-6		U	500	125
Hexachlorobutadiene	87-68-3		U	50.0	12.5
Isopropylbenzene	98-82-8		U	50.0	12.5
p-Isopropyltoluene	99-87-6		U	50.0	12.5
4-Methyl-2-pentanone	108-10-1		U	500	125
Methylene chloride	75-09-2	21.5	J	250	12.5
Naphthalene	91-20-3		U	50.0	10.0
n-Propylbenzene	103-65-1		U	50.0	6.25
Styrene	100-42-5		U	50.0	6.25
1,1,1,2-Tetrachloroethane	630-20-6		U	50.0	12.5
1,1,2,2-Tetrachloroethane	79-34-5		U	50.0	6.25
Tetrachloroethene	127-18-4		U	50.0	12.5
Toluene	108-88-3		U	50.0	12.5
1,2,3-Trichlorobenzene	87-61-6		U	50.0	7.50
1,2,4-Trichlorobenzene	120-82-1		U	50.0	10.0
1,1,1-Trichloroethane	71-55-6		U	50.0	12.5
1,1,2-Trichloroethane	79-00-5		U	50.0	12.5
Trichloroethene	79-01-6	9550		50.0	12.5
Trichlorofluoromethane	75-69-4		U	50.0	12.5

Report Number: **L08100887**Report Date : **November 26, 2008**

00086478

Sample Number: **L08100887-17**
 Client ID: **ICT4-102908**
 Matrix: **Water**
 Workgroup Number: **WG287338**
 Collect Date: **10/29/2008 09:50**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **MDA**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 05:13**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 05:13**
 File ID: **6M79597**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	50.0	25.0
1,2,4-Trimethylbenzene	95-63-6		U	50.0	12.5
1,3,5-Trimethylbenzene	108-67-8		U	50.0	12.5
Vinyl acetate	108-05-4		U	500	125
Vinyl chloride	75-01-4		U	50.0	12.5
o-Xylene	95-47-6		U	50.0	12.5
m-,p-Xylene	136777-61-2		U	50.0	25.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	118	86	118		
1,2-Dichloroethane-d4	114	80	120		
Toluene-d8	94.0	88	110		
4-Bromofluorobenzene	99.8	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-18**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG287385**
Collect Date: **10/29/2008 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/10/2008 12:15**
Cal Date: **10/28/2008 21:12**
Run Date: **11/10/2008 12:15**
File ID: **6M79645**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	5.31	J	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3	0.388	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08100887-18**
 Client ID: **TRIP BLANK**
 Matrix: **Water**
 Workgroup Number: **WG287385**
 Collect Date: **10/29/2008 00:01**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/10/2008 12:15**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/10/2008 12:15**
 File ID: **6M79645**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	117	86	118		
1,2-Dichloroethane-d4	116	80	120		
Toluene-d8	93.6	88	110		
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-19**
 Client ID: **EXT1-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 12:15**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 20:40**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 20:40**
 File ID: **6M79621**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	1000	250
Benzene	71-43-2		U	100	12.5
Bromobenzene	108-86-1		U	100	12.5
Bromochloromethane	74-97-5		U	100	20.0
Bromodichloromethane	75-27-4		U	100	25.0
Bromoform	75-25-2		U	100	50.0
Bromomethane	74-83-9		U	100	50.0
2-Butanone	78-93-3		U	1000	250
n-Butylbenzene	104-51-8		U	100	25.0
sec-Butylbenzene	135-98-8		U	100	25.0
tert-Butylbenzene	98-06-6		U	100	25.0
Carbon disulfide	75-15-0		U	100	50.0
Carbon tetrachloride	56-23-5		U	100	25.0
Chlorobenzene	108-90-7		U	100	12.5
Chlorodibromomethane	124-48-1		U	100	25.0
Chloroethane	75-00-3		U	100	50.0
2-Chloroethyl vinyl ether	110-75-8		U	1000	200
Chloroform	67-66-3		U	100	12.5
Chloromethane	74-87-3		U	100	25.0
2-Chlorotoluene	95-49-8		U	100	12.5
4-Chlorotoluene	106-43-4		U	100	25.0
1,2-Dibromo-3-chloropropane	96-12-8		U	500	100
1,2-Dibromoethane	106-93-4		U	100	25.0
Dibromomethane	74-95-3		U	100	25.0
1,2-Dichlorobenzene	95-50-1		U	100	12.5
1,3-Dichlorobenzene	541-73-1		U	100	25.0
1,4-Dichlorobenzene	106-46-7		U	100	12.5
Dichlorodifluoromethane	75-71-8		U	100	25.0
1,1-Dichloroethane	75-34-3		U	100	12.5
1,2-Dichloroethane	107-06-2	85.6	J	100	25.0
1,1-Dichloroethene	75-35-4		U	100	50.0
cis-1,2-Dichloroethene	156-59-2	4810		100	25.0
trans-1,2-Dichloroethene	156-60-5		U	100	25.0
1,2-Dichloropropane	78-87-5		U	100	20.0
1,3-Dichloropropane	142-28-9		U	100	20.0
2,2-Dichloropropane	594-20-7		U	100	25.0
cis-1,3-Dichloropropene	10061-01-5		U	100	25.0
trans-1,3-Dichloropropene	10061-02-6		U	100	50.0
1,1-Dichloropropene	563-58-6		U	100	25.0
Ethylbenzene	100-41-4		U	100	25.0
2-Hexanone	591-78-6		U	1000	250
Hexachlorobutadiene	87-68-3		U	100	25.0
Isopropylbenzene	98-82-8		U	100	25.0
p-Isopropyltoluene	99-87-6		U	100	25.0
4-Methyl-2-pentanone	108-10-1		U	1000	250
Methylene chloride	75-09-2	71.3	J	500	25.0
Naphthalene	91-20-3		U	100	20.0
n-Propylbenzene	103-65-1		U	100	12.5
Styrene	100-42-5		U	100	12.5
1,1,1,2-Tetrachloroethane	630-20-6		U	100	25.0
1,1,2,2-Tetrachloroethane	79-34-5		U	100	12.5
Tetrachloroethene	127-18-4		U	100	25.0
Toluene	108-88-3		U	100	25.0
1,2,3-Trichlorobenzene	87-61-6		U	100	15.0
1,2,4-Trichlorobenzene	120-82-1		U	100	20.0
1,1,1-Trichloroethane	71-55-6		U	100	25.0
1,1,2-Trichloroethane	79-00-5		U	100	25.0
Trichloroethene	79-01-6	11300		100	25.0
Trichlorofluoromethane	75-69-4		U	100	25.0

Report Number: **L08100887**Report Date : **November 26, 2008**

00086482

Sample Number: **L08100887-19**
 Client ID: **EXT1-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 12:15**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 20:40**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 20:40**
 File ID: **6M79621**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	100	50.0
1,2,4-Trimethylbenzene	95-63-6		U	100	25.0
1,3,5-Trimethylbenzene	108-67-8		U	100	25.0
Vinyl acetate	108-05-4		U	1000	250
Vinyl chloride	75-01-4		U	100	25.0
o-Xylene	95-47-6		U	100	25.0
m-,p-Xylene	136777-61-2		U	100	50.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	113	86	118		
1,2-Dichloroethane-d4	112	80	120		
Toluene-d8	93.2	88	110		
4-Bromofluorobenzene	103	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-20**
 Client ID: **EXT2-102908**
 Matrix: **Water**
 Workgroup Number: **WG287488**
 Collect Date: **10/29/2008 12:30**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **2000**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/11/2008 10:15**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/11/2008 10:15**
 File ID: **8M349627**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	20000	5000
Benzene	71-43-2		U	2000	250
Bromobenzene	108-86-1		U	2000	250
Bromochloromethane	74-97-5		U	2000	400
Bromodichloromethane	75-27-4		U	2000	500
Bromoform	75-25-2		U	2000	1000
Bromomethane	74-83-9		U	2000	1000
2-Butanone	78-93-3		U	20000	5000
n-Butylbenzene	104-51-8		U	2000	500
sec-Butylbenzene	135-98-8		U	2000	500
tert-Butylbenzene	98-06-6		U	2000	500
Carbon disulfide	75-15-0		U	2000	1000
Carbon tetrachloride	56-23-5		U	2000	500
Chlorobenzene	108-90-7		U	2000	250
Chlorodibromomethane	124-48-1		U	2000	500
Chloroethane	75-00-3		U	2000	1000
2-Chloroethyl vinyl ether	110-75-8		U	20000	4000
Chloroform	67-66-3		U	2000	250
Chloromethane	74-87-3		U	2000	500
2-Chlorotoluene	95-49-8		U	2000	250
4-Chlorotoluene	106-43-4		U	2000	500
1,2-Dibromo-3-chloropropane	96-12-8		U	10000	2000
1,2-Dibromoethane	106-93-4		U	2000	500
Dibromomethane	74-95-3		U	2000	500
1,2-Dichlorobenzene	95-50-1		U	2000	250
1,3-Dichlorobenzene	541-73-1		U	2000	500
1,4-Dichlorobenzene	106-46-7		U	2000	250
Dichlorodifluoromethane	75-71-8		U	2000	500
1,1-Dichloroethane	75-34-3		U	2000	250
1,2-Dichloroethane	107-06-2		U	2000	500
1,1-Dichloroethene	75-35-4		U	2000	1000
cis-1,2-Dichloroethene	156-59-2	29600		2000	500
trans-1,2-Dichloroethene	156-60-5		U	2000	500
1,2-Dichloropropane	78-87-5		U	2000	400
1,3-Dichloropropane	142-28-9		U	2000	400
2,2-Dichloropropane	594-20-7		U	2000	500
cis-1,3-Dichloropropene	10061-01-5		U	2000	500
trans-1,3-Dichloropropene	10061-02-6		U	2000	1000
1,1-Dichloropropene	563-58-6		U	2000	500
Ethylbenzene	100-41-4		U	2000	500
2-Hexanone	591-78-6		U	20000	5000
Hexachlorobutadiene	87-68-3		U	2000	500
Isopropylbenzene	98-82-8		U	2000	500
p-Isopropyltoluene	99-87-6		U	2000	500
4-Methyl-2-pentanone	108-10-1		U	20000	5000
Methylene chloride	75-09-2		U	10000	500
Naphthalene	91-20-3		U	2000	400
n-Propylbenzene	103-65-1		U	2000	250
Styrene	100-42-5		U	2000	250
1,1,1,2-Tetrachloroethane	630-20-6		U	2000	500
1,1,2,2-Tetrachloroethane	79-34-5		U	2000	250
Tetrachloroethene	127-18-4		U	2000	500
Toluene	108-88-3		U	2000	500
1,2,3-Trichlorobenzene	87-61-6		U	2000	300
1,2,4-Trichlorobenzene	120-82-1		U	2000	400
1,1,1-Trichloroethane	71-55-6		U	2000	500
1,1,2-Trichloroethane	79-00-5		U	2000	500
Trichloroethene	79-01-6	114000		2000	500
Trichlorofluoromethane	75-69-4		U	2000	500

Sample Number: **L08100887-20**
 Client ID: **EXT2-102908**
 Matrix: **Water**
 Workgroup Number: **WG287488**
 Collect Date: **10/29/2008 12:30**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **2000**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/11/2008 10:15**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/11/2008 10:15**
 File ID: **8M349627**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	2000	1000
1,2,4-Trimethylbenzene	95-63-6		U	2000	500
1,3,5-Trimethylbenzene	108-67-8		U	2000	500
Vinyl acetate	108-05-4		U	20000	5000
Vinyl chloride	75-01-4		U	2000	500
o-Xylene	95-47-6		U	2000	500
m-,p-Xylene	136777-61-2		U	2000	1000
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	104	86	118		
1,2-Dichloroethane-d4	111	80	120		
Toluene-d8	93.2	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: L08100887-20
 Client ID: EXT2-102908
 Matrix: Water
 Workgroup Number: WG287402
 Collect Date: 10/29/2008 12:30
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CAA
 Dilution: 250
 Units: ug/L

Instrument: HPMS8
 Prep Date: 11/10/2008 16:20
 Cal Date: 11/03/2008 21:17
 Run Date: 11/10/2008 16:20
 File ID: 8M349610

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	2500	625
Benzene	71-43-2		U	250	31.3
Bromobenzene	108-86-1		U	250	31.3
Bromochloromethane	74-97-5		U	250	50.0
Bromodichloromethane	75-27-4		U	250	62.5
Bromoform	75-25-2		U	250	125
Bromomethane	74-83-9		U	250	125
2-Butanone	78-93-3		U	2500	625
n-Butylbenzene	104-51-8		U	250	62.5
sec-Butylbenzene	135-98-8		U	250	62.5
tert-Butylbenzene	98-06-6		U	250	62.5
Carbon disulfide	75-15-0		U	250	125
Carbon tetrachloride	56-23-5		U	250	62.5
Chlorobenzene	108-90-7		U	250	31.3
Chlorodibromomethane	124-48-1		U	250	62.5
Chloroethane	75-00-3		U	250	125
2-Chloroethyl vinyl ether	110-75-8		U	2500	500
Chloroform	67-66-3		U	250	31.3
Chloromethane	74-87-3		U	250	62.5
2-Chlorotoluene	95-49-8		U	250	31.3
4-Chlorotoluene	106-43-4		U	250	62.5
1,2-Dibromo-3-chloropropane	96-12-8		U	1250	250
1,2-Dibromoethane	106-93-4		U	250	62.5
Dibromomethane	74-95-3		U	250	62.5
1,2-Dichlorobenzene	95-50-1		U	250	31.3
1,3-Dichlorobenzene	541-73-1		U	250	62.5
1,4-Dichlorobenzene	106-46-7		U	250	31.3
Dichlorodifluoromethane	75-71-8		U	250	62.5
1,1-Dichloroethane	75-34-3		U	250	31.3
1,2-Dichloroethane	107-06-2	84.5	J	250	62.5
1,1-Dichloroethene	75-35-4		U	250	125
cis-1,2-Dichloroethene	156-59-2	28100		250	62.5
trans-1,2-Dichloroethene	156-60-5		U	250	62.5
1,2-Dichloropropane	78-87-5		U	250	50.0
1,3-Dichloropropane	142-28-9		U	250	50.0
2,2-Dichloropropane	594-20-7		U	250	62.5
cis-1,3-Dichloropropene	10061-01-5		U	250	62.5
trans-1,3-Dichloropropene	10061-02-6		U	250	125
1,1-Dichloropropene	563-58-6		U	250	62.5
Ethylbenzene	100-41-4		U	250	62.5
2-Hexanone	591-78-6		U	2500	625
Hexachlorobutadiene	87-68-3		U	250	62.5
Isopropylbenzene	98-82-8		U	250	62.5
p-Isopropyltoluene	99-87-6		U	250	62.5
4-Methyl-2-pentanone	108-10-1		U	2500	625
Methylene chloride	75-09-2		U	1250	62.5
Naphthalene	91-20-3		U	250	50.0
n-Propylbenzene	103-65-1		U	250	31.3
Styrene	100-42-5		U	250	31.3
1,1,1,2-Tetrachloroethane	630-20-6		U	250	62.5
1,1,2,2-Tetrachloroethane	79-34-5		U	250	31.3
Tetrachloroethene	127-18-4		U	250	62.5
Toluene	108-88-3		U	250	62.5
1,2,3-Trichlorobenzene	87-61-6		U	250	37.5
1,2,4-Trichlorobenzene	120-82-1		U	250	50.0
1,1,1-Trichloroethane	71-55-6		U	250	62.5
1,1,2-Trichloroethane	79-00-5		U	250	62.5
Trichloroethene	79-01-6	96300	I	250	62.5
Trichlorofluoromethane	75-69-4		U	250	62.5

Sample Number: **L08100887-20**
 Client ID: **EXT2-102908**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 12:30**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **250**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 16:20**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 16:20**
 File ID: **8M349610**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	250	125
1,2,4-Trimethylbenzene	95-63-6		U	250	62.5
1,3,5-Trimethylbenzene	108-67-8		U	250	62.5
Vinyl acetate	108-05-4		U	2500	625
Vinyl chloride	75-01-4	730		250	62.5
o-Xylene	95-47-6		U	250	62.5
m-,p-Xylene	136777-61-2		U	250	125
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	106	86	118		
1,2-Dichloroethane-d4	114	80	120		
Toluene-d8	96.6	88	110		
4-Bromofluorobenzene	103	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL
 I Semiquantitative result (out of instrument calibration range)

Sample Number: **L08100887-21**
Client ID: **EXT2-102908-FD**
Matrix: **Water**
Workgroup Number: **WG287488**
Collect Date: **10/29/2008 12:30**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **2000**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **11/11/2008 10:47**
Cal Date: **11/03/2008 21:17**
Run Date: **11/11/2008 10:47**
File ID: **8M349628**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	20000	5000
Benzene	71-43-2		U	2000	250
Bromobenzene	108-86-1		U	2000	250
Bromochloromethane	74-97-5		U	2000	400
Bromodichloromethane	75-27-4		U	2000	500
Bromoform	75-25-2		U	2000	1000
Bromomethane	74-83-9		U	2000	1000
2-Butanone	78-93-3		U	20000	5000
n-Butylbenzene	104-51-8		U	2000	500
sec-Butylbenzene	135-98-8		U	2000	500
tert-Butylbenzene	98-06-6		U	2000	500
Carbon disulfide	75-15-0		U	2000	1000
Carbon tetrachloride	56-23-5		U	2000	500
Chlorobenzene	108-90-7		U	2000	250
Chlorodibromomethane	124-48-1		U	2000	500
Chloroethane	75-00-3		U	2000	1000
2-Chloroethyl vinyl ether	110-75-8		U	20000	4000
Chloroform	67-66-3		U	2000	250
Chloromethane	74-87-3		U	2000	500
2-Chlorotoluene	95-49-8		U	2000	250
4-Chlorotoluene	106-43-4		U	2000	500
1,2-Dibromo-3-chloropropane	96-12-8		U	10000	2000
1,2-Dibromoethane	106-93-4		U	2000	500
Dibromomethane	74-95-3		U	2000	500
1,2-Dichlorobenzene	95-50-1		U	2000	250
1,3-Dichlorobenzene	541-73-1		U	2000	500
1,4-Dichlorobenzene	106-46-7		U	2000	250
Dichlorodifluoromethane	75-71-8		U	2000	500
1,1-Dichloroethane	75-34-3		U	2000	250
1,2-Dichloroethane	107-06-2		U	2000	500
1,1-Dichloroethene	75-35-4		U	2000	1000
cis-1,2-Dichloroethene	156-59-2	19600		2000	500
trans-1,2-Dichloroethene	156-60-5		U	2000	500
1,2-Dichloropropane	78-87-5		U	2000	400
1,3-Dichloropropane	142-28-9		U	2000	400
2,2-Dichloropropane	594-20-7		U	2000	500
cis-1,3-Dichloropropene	10061-01-5		U	2000	500
trans-1,3-Dichloropropene	10061-02-6		U	2000	1000
1,1-Dichloropropene	563-58-6		U	2000	500
Ethylbenzene	100-41-4		U	2000	500
2-Hexanone	591-78-6		U	20000	5000
Hexachlorobutadiene	87-68-3		U	2000	500
Isopropylbenzene	98-82-8		U	2000	500
p-Isopropyltoluene	99-87-6		U	2000	500
4-Methyl-2-pentanone	108-10-1		U	20000	5000
Methylene chloride	75-09-2		U	10000	500
Naphthalene	91-20-3		U	2000	400
n-Propylbenzene	103-65-1		U	2000	250
Styrene	100-42-5		U	2000	250
1,1,1,2-Tetrachloroethane	630-20-6		U	2000	500
1,1,2,2-Tetrachloroethane	79-34-5		U	2000	250
Tetrachloroethene	127-18-4		U	2000	500
Toluene	108-88-3		U	2000	500
1,2,3-Trichlorobenzene	87-61-6		U	2000	300
1,2,4-Trichlorobenzene	120-82-1		U	2000	400
1,1,1-Trichloroethane	71-55-6		U	2000	500
1,1,2-Trichloroethane	79-00-5		U	2000	500
Trichloroethene	79-01-6	59300		2000	500
Trichlorofluoromethane	75-69-4		U	2000	500

Sample Number: **L08100887-21**
 Client ID: **EXT2-102908-FD**
 Matrix: **Water**
 Workgroup Number: **WG287488**
 Collect Date: **10/29/2008 12:30**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **2000**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/11/2008 10:47**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/11/2008 10:47**
 File ID: **8M349628**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	2000	1000
1,2,4-Trimethylbenzene	95-63-6		U	2000	500
1,3,5-Trimethylbenzene	108-67-8		U	2000	500
Vinyl acetate	108-05-4		U	20000	5000
Vinyl chloride	75-01-4		U	2000	500
o-Xylene	95-47-6		U	2000	500
m-,p-Xylene	136777-61-2		U	2000	1000
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	105	86	118		
1,2-Dichloroethane-d4	113	80	120		
Toluene-d8	94.3	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: L08100887-21
 Client ID: EXT2-102908-FD
 Matrix: Water
 Workgroup Number: WG287402
 Collect Date: 10/29/2008 12:30
 Sample Tag: DL01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CAA
 Dilution: 250
 Units: ug/L

Instrument: HPMS8
 Prep Date: 11/10/2008 16:52
 Cal Date: 11/03/2008 21:17
 Run Date: 11/10/2008 16:52
 File ID: 8M349611

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	2500	625
Benzene	71-43-2		U	250	31.3
Bromobenzene	108-86-1		U	250	31.3
Bromochloromethane	74-97-5		U	250	50.0
Bromodichloromethane	75-27-4		U	250	62.5
Bromoform	75-25-2		U	250	125
Bromomethane	74-83-9		U	250	125
2-Butanone	78-93-3		U	2500	625
n-Butylbenzene	104-51-8		U	250	62.5
sec-Butylbenzene	135-98-8		U	250	62.5
tert-Butylbenzene	98-06-6		U	250	62.5
Carbon disulfide	75-15-0		U	250	125
Carbon tetrachloride	56-23-5		U	250	62.5
Chlorobenzene	108-90-7		U	250	31.3
Chlorodibromomethane	124-48-1		U	250	62.5
Chloroethane	75-00-3		U	250	125
2-Chloroethyl vinyl ether	110-75-8		U	2500	500
Chloroform	67-66-3		U	250	31.3
Chloromethane	74-87-3		U	250	62.5
2-Chlorotoluene	95-49-8		U	250	31.3
4-Chlorotoluene	106-43-4		U	250	62.5
1,2-Dibromo-3-chloropropane	96-12-8		U	1250	250
1,2-Dibromoethane	106-93-4		U	250	62.5
Dibromomethane	74-95-3		U	250	62.5
1,2-Dichlorobenzene	95-50-1		U	250	31.3
1,3-Dichlorobenzene	541-73-1		U	250	62.5
1,4-Dichlorobenzene	106-46-7		U	250	31.3
Dichlorodifluoromethane	75-71-8		U	250	62.5
1,1-Dichloroethane	75-34-3		U	250	31.3
1,2-Dichloroethane	107-06-2	102	J	250	62.5
1,1-Dichloroethene	75-35-4		U	250	125
cis-1,2-Dichloroethene	156-59-2	31200		250	62.5
trans-1,2-Dichloroethene	156-60-5		U	250	62.5
1,2-Dichloropropane	78-87-5		U	250	50.0
1,3-Dichloropropane	142-28-9		U	250	50.0
2,2-Dichloropropane	594-20-7		U	250	62.5
cis-1,3-Dichloropropene	10061-01-5		U	250	62.5
trans-1,3-Dichloropropene	10061-02-6		U	250	125
1,1-Dichloropropene	563-58-6		U	250	62.5
Ethylbenzene	100-41-4		U	250	62.5
2-Hexanone	591-78-6		U	2500	625
Hexachlorobutadiene	87-68-3		U	250	62.5
Isopropylbenzene	98-82-8		U	250	62.5
p-Isopropyltoluene	99-87-6		U	250	62.5
4-Methyl-2-pentanone	108-10-1		U	2500	625
Methylene chloride	75-09-2		U	1250	62.5
Naphthalene	91-20-3		U	250	50.0
n-Propylbenzene	103-65-1		U	250	31.3
Styrene	100-42-5		U	250	31.3
1,1,1,2-Tetrachloroethane	630-20-6		U	250	62.5
1,1,2,2-Tetrachloroethane	79-34-5		U	250	31.3
Tetrachloroethene	127-18-4		U	250	62.5
Toluene	108-88-3		U	250	62.5
1,2,3-Trichlorobenzene	87-61-6		U	250	37.5
1,2,4-Trichlorobenzene	120-82-1		U	250	50.0
1,1,1-Trichloroethane	71-55-6		U	250	62.5
1,1,2-Trichloroethane	79-00-5		U	250	62.5
Trichloroethene	79-01-6	105000	I	250	62.5
Trichlorofluoromethane	75-69-4		U	250	62.5

Sample Number: **L08100887-21**
 Client ID: **EXT2-102908-FD**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 12:30**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **250**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 16:52**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 16:52**
 File ID: **8M349611**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	250	125
1,2,4-Trimethylbenzene	95-63-6		U	250	62.5
1,3,5-Trimethylbenzene	108-67-8		U	250	62.5
Vinyl acetate	108-05-4		U	2500	625
Vinyl chloride	75-01-4	820		250	62.5
o-Xylene	95-47-6		U	250	62.5
m-,p-Xylene	136777-61-2		U	250	125
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	104	86	118		
1,2-Dichloroethane-d4	112	80	120		
Toluene-d8	95.8	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L08100887-22**
Client ID: **EXT3-102908**
Matrix: **Water**
Workgroup Number: **WG287349**
Collect Date: **10/29/2008 12:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **500**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/09/2008 21:12**
Cal Date: **10/28/2008 21:12**
Run Date: **11/09/2008 21:12**
File ID: **6M79622**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	5000	1250
Benzene	71-43-2	152	J	500	62.5
Bromobenzene	108-86-1		U	500	62.5
Bromochloromethane	74-97-5		U	500	100
Bromodichloromethane	75-27-4		U	500	125
Bromoform	75-25-2		U	500	250
Bromomethane	74-83-9		U	500	250
2-Butanone	78-93-3		U	5000	1250
n-Butylbenzene	104-51-8		U	500	125
sec-Butylbenzene	135-98-8		U	500	125
tert-Butylbenzene	98-06-6		U	500	125
Carbon disulfide	75-15-0		U	500	250
Carbon tetrachloride	56-23-5		U	500	125
Chlorobenzene	108-90-7		U	500	62.5
Chlorodibromomethane	124-48-1		U	500	125
Chloroethane	75-00-3		U	500	250
2-Chloroethyl vinyl ether	110-75-8		U	5000	1000
Chloroform	67-66-3		U	500	62.5
Chloromethane	74-87-3		U	500	125
2-Chlorotoluene	95-49-8		U	500	62.5
4-Chlorotoluene	106-43-4		U	500	125
1,2-Dibromo-3-chloropropane	96-12-8		U	2500	500
1,2-Dibromoethane	106-93-4		U	500	125
Dibromomethane	74-95-3		U	500	125
1,2-Dichlorobenzene	95-50-1		U	500	62.5
1,3-Dichlorobenzene	541-73-1		U	500	125
1,4-Dichlorobenzene	106-46-7		U	500	62.5
Dichlorodifluoromethane	75-71-8		U	500	125
1,1-Dichloroethane	75-34-3		U	500	62.5
1,2-Dichloroethane	107-06-2		U	500	125
1,1-Dichloroethene	75-35-4		U	500	250
cis-1,2-Dichloroethene	156-59-2	5050		500	125
trans-1,2-Dichloroethene	156-60-5		U	500	125
1,2-Dichloropropane	78-87-5		U	500	100
1,3-Dichloropropane	142-28-9		U	500	100
2,2-Dichloropropane	594-20-7		U	500	125
cis-1,3-Dichloropropene	10061-01-5		U	500	125
trans-1,3-Dichloropropene	10061-02-6		U	500	250
1,1-Dichloropropene	563-58-6		U	500	125
Ethylbenzene	100-41-4		U	500	125
2-Hexanone	591-78-6		U	5000	1250
Hexachlorobutadiene	87-68-3		U	500	125
Isopropylbenzene	98-82-8		U	500	125
p-Isopropyltoluene	99-87-6		U	500	125
4-Methyl-2-pentanone	108-10-1		U	5000	1250
Methylene chloride	75-09-2	370	J	2500	125
Naphthalene	91-20-3		U	500	100
n-Propylbenzene	103-65-1		U	500	62.5
Styrene	100-42-5		U	500	62.5
1,1,1,2-Tetrachloroethane	630-20-6		U	500	125
1,1,2,2-Tetrachloroethane	79-34-5		U	500	62.5
Tetrachloroethene	127-18-4		U	500	125
Toluene	108-88-3		U	500	125
1,2,3-Trichlorobenzene	87-61-6		U	500	75.0
1,2,4-Trichlorobenzene	120-82-1		U	500	100
1,1,1-Trichloroethane	71-55-6		U	500	125
1,1,2-Trichloroethane	79-00-5		U	500	125
Trichloroethene	79-01-6	79200		500	125
Trichlorofluoromethane	75-69-4		U	500	125

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Sample Number: **L08100887-22**
 Client ID: **EXT3-102908**
 Matrix: **Water**
 Workgroup Number: **WG287349**
 Collect Date: **10/29/2008 12:50**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **500**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/09/2008 21:12**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/09/2008 21:12**
 File ID: **6M79622**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	500	250
1,2,4-Trimethylbenzene	95-63-6		U	500	125
1,3,5-Trimethylbenzene	108-67-8		U	500	125
Vinyl acetate	108-05-4		U	5000	1250
Vinyl chloride	75-01-4		U	500	125
o-Xylene	95-47-6		U	500	125
m-,p-Xylene	136777-61-2		U	500	250
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	119	86	118	*	
1,2-Dichloroethane-d4	116	80	120		
Toluene-d8	92.3	88	110		
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

* Surrogate or spike compound out of range

Sample Number: **L08100887-23**
 Client ID: **EXT4-102908**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 13:05**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **500**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 17:23**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 17:23**
 File ID: **8M349612**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	5000	1250
Benzene	71-43-2		U	500	62.5
Bromobenzene	108-86-1		U	500	62.5
Bromochloromethane	74-97-5		U	500	100
Bromodichloromethane	75-27-4		U	500	125
Bromoform	75-25-2		U	500	250
Bromomethane	74-83-9		U	500	250
2-Butanone	78-93-3		U	5000	1250
n-Butylbenzene	104-51-8		U	500	125
sec-Butylbenzene	135-98-8		U	500	125
tert-Butylbenzene	98-06-6		U	500	125
Carbon disulfide	75-15-0		U	500	250
Carbon tetrachloride	56-23-5		U	500	125
Chlorobenzene	108-90-7		U	500	62.5
Chlorodibromomethane	124-48-1		U	500	125
Chloroethane	75-00-3		U	500	250
2-Chloroethyl vinyl ether	110-75-8		U	5000	1000
Chloroform	67-66-3		U	500	62.5
Chloromethane	74-87-3		U	500	125
2-Chlorotoluene	95-49-8		U	500	62.5
4-Chlorotoluene	106-43-4		U	500	125
1,2-Dibromo-3-chloropropane	96-12-8		U	2500	500
1,2-Dibromoethane	106-93-4		U	500	125
Dibromomethane	74-95-3		U	500	125
1,2-Dichlorobenzene	95-50-1		U	500	62.5
1,3-Dichlorobenzene	541-73-1		U	500	125
1,4-Dichlorobenzene	106-46-7		U	500	62.5
Dichlorodifluoromethane	75-71-8		U	500	125
1,1-Dichloroethane	75-34-3		U	500	62.5
1,2-Dichloroethane	107-06-2		U	500	125
1,1-Dichloroethene	75-35-4		U	500	250
cis-1,2-Dichloroethene	156-59-2	1490		500	125
trans-1,2-Dichloroethene	156-60-5		U	500	125
1,2-Dichloropropane	78-87-5		U	500	100
1,3-Dichloropropane	142-28-9		U	500	100
2,2-Dichloropropane	594-20-7		U	500	125
cis-1,3-Dichloropropene	10061-01-5		U	500	125
trans-1,3-Dichloropropene	10061-02-6		U	500	250
1,1-Dichloropropene	563-58-6		U	500	125
Ethylbenzene	100-41-4		U	500	125
2-Hexanone	591-78-6		U	5000	1250
Hexachlorobutadiene	87-68-3		U	500	125
Isopropylbenzene	98-82-8		U	500	125
p-Isopropyltoluene	99-87-6		U	500	125
4-Methyl-2-pentanone	108-10-1		U	5000	1250
Methylene chloride	75-09-2		U	2500	125
Naphthalene	91-20-3		U	500	100
n-Propylbenzene	103-65-1		U	500	62.5
Styrene	100-42-5		U	500	62.5
1,1,1,2-Tetrachloroethane	630-20-6		U	500	125
1,1,2,2-Tetrachloroethane	79-34-5		U	500	62.5
Tetrachloroethene	127-18-4		U	500	125
Toluene	108-88-3		U	500	125
1,2,3-Trichlorobenzene	87-61-6		U	500	75.0
1,2,4-Trichlorobenzene	120-82-1		U	500	100
1,1,1-Trichloroethane	71-55-6		U	500	125
1,1,2-Trichloroethane	79-00-5		U	500	125
Trichloroethene	79-01-6	7090		500	125
Trichlorofluoromethane	75-69-4		U	500	125

Sample Number: **L08100887-23**
 Client ID: **EXT4-102908**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 13:05**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **500**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 17:23**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 17:23**
 File ID: **8M349612**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	500	250
1,2,4-Trimethylbenzene	95-63-6		U	500	125
1,3,5-Trimethylbenzene	108-67-8		U	500	125
Vinyl acetate	108-05-4		U	5000	1250
Vinyl chloride	75-01-4		U	500	125
o-Xylene	95-47-6		U	500	125
m-,p-Xylene	136777-61-2		U	500	250
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	101	86	118		
1,2-Dichloroethane-d4	107	80	120		
Toluene-d8	95.3	88	110		
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08100887-23**
Client ID: **EXT4-102908**
Matrix: **Water**
Workgroup Number: **WG287486**
Collect Date: **10/29/2008 13:05**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **50**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/11/2008 15:34**
Cal Date: **10/28/2008 21:12**
Run Date: **11/11/2008 15:34**
File ID: **6M79679**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	500	125
Benzene	71-43-2		U	50.0	6.25
Bromobenzene	108-86-1		U	50.0	6.25
Bromochloromethane	74-97-5		U	50.0	10.0
Bromodichloromethane	75-27-4		U	50.0	12.5
Bromoform	75-25-2		U	50.0	25.0
Bromomethane	74-83-9		U	50.0	25.0
2-Butanone	78-93-3		U	500	125
n-Butylbenzene	104-51-8		U	50.0	12.5
sec-Butylbenzene	135-98-8		U	50.0	12.5
tert-Butylbenzene	98-06-6		U	50.0	12.5
Carbon disulfide	75-15-0		U	50.0	25.0
Carbon tetrachloride	56-23-5		U	50.0	12.5
Chlorobenzene	108-90-7		U	50.0	6.25
Chlorodibromomethane	124-48-1		U	50.0	12.5
Chloroethane	75-00-3		U	50.0	25.0
2-Chloroethyl vinyl ether	110-75-8		U	500	100
Chloroform	67-66-3		U	50.0	6.25
Chloromethane	74-87-3		U	50.0	12.5
2-Chlorotoluene	95-49-8		U	50.0	6.25
4-Chlorotoluene	106-43-4		U	50.0	12.5
1,2-Dibromo-3-chloropropane	96-12-8		U	250	50.0
1,2-Dibromoethane	106-93-4		U	50.0	12.5
Dibromomethane	74-95-3		U	50.0	12.5
1,2-Dichlorobenzene	95-50-1		U	50.0	6.25
1,3-Dichlorobenzene	541-73-1		U	50.0	12.5
1,4-Dichlorobenzene	106-46-7		U	50.0	6.25
Dichlorodifluoromethane	75-71-8		U	50.0	12.5
1,1-Dichloroethane	75-34-3		U	50.0	6.25
1,2-Dichloroethane	107-06-2		U	50.0	12.5
1,1-Dichloroethene	75-35-4		U	50.0	25.0
cis-1,2-Dichloroethene	156-59-2	2200		50.0	12.5
trans-1,2-Dichloroethene	156-60-5		U	50.0	12.5
1,2-Dichloropropane	78-87-5		U	50.0	10.0
1,3-Dichloropropane	142-28-9		U	50.0	10.0
2,2-Dichloropropane	594-20-7		U	50.0	12.5
cis-1,3-Dichloropropene	10061-01-5		U	50.0	12.5
trans-1,3-Dichloropropene	10061-02-6		U	50.0	25.0
1,1-Dichloropropene	563-58-6		U	50.0	12.5
Ethylbenzene	100-41-4		U	50.0	12.5
2-Hexanone	591-78-6		U	500	125
Hexachlorobutadiene	87-68-3		U	50.0	12.5
Isopropylbenzene	98-82-8		U	50.0	12.5
p-Isopropyltoluene	99-87-6		U	50.0	12.5
4-Methyl-2-pentanone	108-10-1		U	500	125
Methylene chloride	75-09-2		U	250	12.5
Naphthalene	91-20-3		U	50.0	10.0
n-Propylbenzene	103-65-1		U	50.0	6.25
Styrene	100-42-5		U	50.0	6.25
1,1,1,2-Tetrachloroethane	630-20-6		U	50.0	12.5
1,1,2,2-Tetrachloroethane	79-34-5		U	50.0	6.25
Tetrachloroethene	127-18-4		U	50.0	12.5
Toluene	108-88-3		U	50.0	12.5
1,2,3-Trichlorobenzene	87-61-6		U	50.0	7.50
1,2,4-Trichlorobenzene	120-82-1		U	50.0	10.0
1,1,1-Trichloroethane	71-55-6		U	50.0	12.5
1,1,2-Trichloroethane	79-00-5		U	50.0	12.5
Trichloroethene	79-01-6	11200	I	50.0	12.5
Trichlorofluoromethane	75-69-4		U	50.0	12.5

Sample Number: **L08100887-23**
 Client ID: **EXT4-102908**
 Matrix: **Water**
 Workgroup Number: **WG287486**
 Collect Date: **10/29/2008 13:05**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **50**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/11/2008 15:34**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/11/2008 15:34**
 File ID: **6M79679**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	50.0	25.0
1,2,4-Trimethylbenzene	95-63-6		U	50.0	12.5
1,3,5-Trimethylbenzene	108-67-8		U	50.0	12.5
Vinyl acetate	108-05-4		U	500	125
Vinyl chloride	75-01-4		U	50.0	12.5
o-Xylene	95-47-6		U	50.0	12.5
m-,p-Xylene	136777-61-2		U	50.0	25.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	110	86	118		
1,2-Dichloroethane-d4	102	80	120		
Toluene-d8	94.8	88	110		
4-Bromofluorobenzene	100	86	115		

U Not detected at or above adjusted sample detection limit

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L08100887-24**
Client ID: **EXT5-102908**
Matrix: **Water**
Workgroup Number: **WG287486**
Collect Date: **10/29/2008 12:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/11/2008 14:29**
Cal Date: **10/28/2008 21:12**
Run Date: **11/11/2008 14:29**
File ID: **6M79677**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2	0.568	J	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	23.2		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	33.8		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08100887-24**
 Client ID: **EXT5-102908**
 Matrix: **Water**
 Workgroup Number: **WG287486**
 Collect Date: **10/29/2008 12:20**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/11/2008 14:29**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/11/2008 14:29**
 File ID: **6M79677**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	109	86	118		
1,2-Dichloroethane-d4	98.1	80	120		
Toluene-d8	94.7	88	110		
4-Bromofluorobenzene	101	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-25**
Client ID: **EXT6-102908**
Matrix: **Water**
Workgroup Number: **WG287486**
Collect Date: **10/29/2008 12:35**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **5**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/11/2008 16:07**
Cal Date: **10/28/2008 21:12**
Run Date: **11/11/2008 16:07**
File ID: **6M79680**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	50.0	12.5
Benzene	71-43-2		U	5.00	0.625
Bromobenzene	108-86-1		U	5.00	0.625
Bromochloromethane	74-97-5		U	5.00	1.00
Bromodichloromethane	75-27-4		U	5.00	1.25
Bromoform	75-25-2		U	5.00	2.50
Bromomethane	74-83-9		U	5.00	2.50
2-Butanone	78-93-3		U	50.0	12.5
n-Butylbenzene	104-51-8		U	5.00	1.25
sec-Butylbenzene	135-98-8		U	5.00	1.25
tert-Butylbenzene	98-06-6		U	5.00	1.25
Carbon disulfide	75-15-0	4.60	J	5.00	2.50
Carbon tetrachloride	56-23-5		U	5.00	1.25
Chlorobenzene	108-90-7		U	5.00	0.625
Chlorodibromomethane	124-48-1		U	5.00	1.25
Chloroethane	75-00-3		U	5.00	2.50
2-Chloroethyl vinyl ether	110-75-8		U	50.0	10.0
Chloroform	67-66-3		U	5.00	0.625
Chloromethane	74-87-3		U	5.00	1.25
2-Chlorotoluene	95-49-8		U	5.00	0.625
4-Chlorotoluene	106-43-4		U	5.00	1.25
1,2-Dibromo-3-chloropropane	96-12-8		U	25.0	5.00
1,2-Dibromoethane	106-93-4		U	5.00	1.25
Dibromomethane	74-95-3		U	5.00	1.25
1,2-Dichlorobenzene	95-50-1		U	5.00	0.625
1,3-Dichlorobenzene	541-73-1		U	5.00	1.25
1,4-Dichlorobenzene	106-46-7		U	5.00	0.625
Dichlorodifluoromethane	75-71-8		U	5.00	1.25
1,1-Dichloroethane	75-34-3		U	5.00	0.625
1,2-Dichloroethane	107-06-2	26.3		5.00	1.25
1,1-Dichloroethene	75-35-4		U	5.00	2.50
cis-1,2-Dichloroethene	156-59-2	741		5.00	1.25
trans-1,2-Dichloroethene	156-60-5		U	5.00	1.25
1,2-Dichloropropane	78-87-5		U	5.00	1.00
1,3-Dichloropropane	142-28-9		U	5.00	1.00
2,2-Dichloropropane	594-20-7		U	5.00	1.25
cis-1,3-Dichloropropene	10061-01-5		U	5.00	1.25
trans-1,3-Dichloropropene	10061-02-6		U	5.00	2.50
1,1-Dichloropropene	563-58-6		U	5.00	1.25
Ethylbenzene	100-41-4		U	5.00	1.25
2-Hexanone	591-78-6		U	50.0	12.5
Hexachlorobutadiene	87-68-3		U	5.00	1.25
Isopropylbenzene	98-82-8		U	5.00	1.25
p-Isopropyltoluene	99-87-6		U	5.00	1.25
4-Methyl-2-pentanone	108-10-1		U	50.0	12.5
Methylene chloride	75-09-2		U	25.0	1.25
Naphthalene	91-20-3		U	5.00	1.00
n-Propylbenzene	103-65-1		U	5.00	0.625
Styrene	100-42-5		U	5.00	0.625
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	1.25
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.625
Tetrachloroethene	127-18-4		U	5.00	1.25
Toluene	108-88-3		U	5.00	1.25
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.750
1,2,4-Trichlorobenzene	120-82-1		U	5.00	1.00
1,1,1-Trichloroethane	71-55-6		U	5.00	1.25
1,1,2-Trichloroethane	79-00-5		U	5.00	1.25
Trichloroethene	79-01-6	474		5.00	1.25
Trichlorofluoromethane	75-69-4		U	5.00	1.25

Sample Number: **L08100887-25**
 Client ID: **EXT6-102908**
 Matrix: **Water**
 Workgroup Number: **WG287486**
 Collect Date: **10/29/2008 12:35**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **5**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/11/2008 16:07**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/11/2008 16:07**
 File ID: **6M79680**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	5.00	2.50
1,2,4-Trimethylbenzene	95-63-6		U	5.00	1.25
1,3,5-Trimethylbenzene	108-67-8		U	5.00	1.25
Vinyl acetate	108-05-4		U	50.0	12.5
Vinyl chloride	75-01-4		U	5.00	1.25
o-Xylene	95-47-6		U	5.00	1.25
m-,p-Xylene	136777-61-2		U	5.00	2.50
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	112	86	118		
1,2-Dichloroethane-d4	111	80	120		
Toluene-d8	92.8	88	110		
4-Bromofluorobenzene	99.3	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08100887-26**
Client ID: **EXT7-102908**
Matrix: **Water**
Workgroup Number: **WG287486**
Collect Date: **10/29/2008 12:55**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **2.5**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/11/2008 13:57**
Cal Date: **10/28/2008 21:12**
Run Date: **11/11/2008 13:57**
File ID: **6M79676**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	25.0	6.25
Benzene	71-43-2		U	2.50	0.313
Bromobenzene	108-86-1		U	2.50	0.313
Bromochloromethane	74-97-5		U	2.50	0.500
Bromodichloromethane	75-27-4		U	2.50	0.625
Bromoform	75-25-2		U	2.50	1.25
Bromomethane	74-83-9		U	2.50	1.25
2-Butanone	78-93-3		U	25.0	6.25
n-Butylbenzene	104-51-8		U	2.50	0.625
sec-Butylbenzene	135-98-8		U	2.50	0.625
tert-Butylbenzene	98-06-6		U	2.50	0.625
Carbon disulfide	75-15-0		U	2.50	1.25
Carbon tetrachloride	56-23-5		U	2.50	0.625
Chlorobenzene	108-90-7		U	2.50	0.313
Chlorodibromomethane	124-48-1		U	2.50	0.625
Chloroethane	75-00-3		U	2.50	1.25
2-Chloroethyl vinyl ether	110-75-8		U	25.0	5.00
Chloroform	67-66-3		U	2.50	0.313
Chloromethane	74-87-3		U	2.50	0.625
2-Chlorotoluene	95-49-8		U	2.50	0.313
4-Chlorotoluene	106-43-4		U	2.50	0.625
1,2-Dibromo-3-chloropropane	96-12-8		U	12.5	2.50
1,2-Dibromoethane	106-93-4		U	2.50	0.625
Dibromomethane	74-95-3		U	2.50	0.625
1,2-Dichlorobenzene	95-50-1		U	2.50	0.313
1,3-Dichlorobenzene	541-73-1		U	2.50	0.625
1,4-Dichlorobenzene	106-46-7		U	2.50	0.313
Dichlorodifluoromethane	75-71-8		U	2.50	0.625
1,1-Dichloroethane	75-34-3		U	2.50	0.313
1,2-Dichloroethane	107-06-2	5.55		2.50	0.625
1,1-Dichloroethene	75-35-4		U	2.50	1.25
cis-1,2-Dichloroethene	156-59-2	309		2.50	0.625
trans-1,2-Dichloroethene	156-60-5		U	2.50	0.625
1,2-Dichloropropane	78-87-5		U	2.50	0.500
1,3-Dichloropropane	142-28-9		U	2.50	0.500
2,2-Dichloropropane	594-20-7		U	2.50	0.625
cis-1,3-Dichloropropene	10061-01-5		U	2.50	0.625
trans-1,3-Dichloropropene	10061-02-6		U	2.50	1.25
1,1-Dichloropropene	563-58-6		U	2.50	0.625
Ethylbenzene	100-41-4		U	2.50	0.625
2-Hexanone	591-78-6		U	25.0	6.25
Hexachlorobutadiene	87-68-3		U	2.50	0.625
Isopropylbenzene	98-82-8		U	2.50	0.625
p-Isopropyltoluene	99-87-6		U	2.50	0.625
4-Methyl-2-pentanone	108-10-1		U	25.0	6.25
Methylene chloride	75-09-2		U	12.5	0.625
Naphthalene	91-20-3		U	2.50	0.500
n-Propylbenzene	103-65-1		U	2.50	0.313
Styrene	100-42-5		U	2.50	0.313
1,1,1,2-Tetrachloroethane	630-20-6		U	2.50	0.625
1,1,2,2-Tetrachloroethane	79-34-5		U	2.50	0.313
Tetrachloroethene	127-18-4		U	2.50	0.625
Toluene	108-88-3		U	2.50	0.625
1,2,3-Trichlorobenzene	87-61-6		U	2.50	0.375
1,2,4-Trichlorobenzene	120-82-1		U	2.50	0.500
1,1,1-Trichloroethane	71-55-6		U	2.50	0.625
1,1,2-Trichloroethane	79-00-5		U	2.50	0.625
Trichloroethene	79-01-6	316		2.50	0.625
Trichlorofluoromethane	75-69-4		U	2.50	0.625

65 of 70



Sample Number: **L08100887-26**
 Client ID: **EXT7-102908**
 Matrix: **Water**
 Workgroup Number: **WG287486**
 Collect Date: **10/29/2008 12:55**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **2.5**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/11/2008 13:57**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/11/2008 13:57**
 File ID: **6M79676**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	2.50	1.25
1,2,4-Trimethylbenzene	95-63-6		U	2.50	0.625
1,3,5-Trimethylbenzene	108-67-8		U	2.50	0.625
Vinyl acetate	108-05-4		U	25.0	6.25
Vinyl chloride	75-01-4		U	2.50	0.625
o-Xylene	95-47-6		U	2.50	0.625
m-,p-Xylene	136777-61-2		U	2.50	1.25
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	109	86	118		
1,2-Dichloroethane-d4	97.1	80	120		
Toluene-d8	95.3	88	110		
4-Bromofluorobenzene	99.8	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08100887-27**
Client ID: **EXT8-102908**
Matrix: **Water**
Workgroup Number: **WG287486**
Collect Date: **10/29/2008 13:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS6**
Prep Date: **11/11/2008 15:02**
Cal Date: **10/28/2008 21:12**
Run Date: **11/11/2008 15:02**
File ID: **6M79678**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2	0.337	J	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	25.7		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	69.2		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08100887-27**
 Client ID: **EXT8-102908**
 Matrix: **Water**
 Workgroup Number: **WG287486**
 Collect Date: **10/29/2008 13:10**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS6**
 Prep Date: **11/11/2008 15:02**
 Cal Date: **10/28/2008 21:12**
 Run Date: **11/11/2008 15:02**
 File ID: **6M79678**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	108	86	118		
1,2-Dichloroethane-d4	102	80	120		
Toluene-d8	92.8	88	110		
4-Bromofluorobenzene	99.3	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: L08100887-28
 Client ID: TRIP BLANK
 Matrix: Water
 Workgroup Number: WG287402
 Collect Date: 10/29/2008 00:01
 Sample Tag: 01

PrePrep Method: NONE
 Prep Method: 5030B
 Analytical Method: 8260B
 Analyst: CAA
 Dilution: 1
 Units: ug/L

Instrument: HPMS8
 Prep Date: 11/10/2008 13:08
 Cal Date: 11/03/2008 21:17
 Run Date: 11/10/2008 13:08
 File ID: 8M349604

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	4.89	J	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3	0.561	J	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3	0.424	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08100887-28**
 Client ID: **TRIP BLANK**
 Matrix: **Water**
 Workgroup Number: **WG287402**
 Collect Date: **10/29/2008 00:01**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **11/10/2008 13:08**
 Cal Date: **11/03/2008 21:17**
 Run Date: **11/10/2008 13:08**
 File ID: **8M349604**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	103	86	118		
1,2-Dichloroethane-d4	108	80	120		
Toluene-d8	93.5	88	110		
4-Bromofluorobenzene	102	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = [(Ax) (Cis)] / [(Ais) (Cx)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100

RF = Calculated Response Factor **1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

$$Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Vs = Purge volume of sample (mL)	10
Vn = Nominal purge volume of sample (mL) (10.0 mL)	10
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

$$Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Ws = Weight of sample purged (g)	5
Wn = Nominal purge weight (g) (5.0 g)	5
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	254.4856

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, $y = mx + b$

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

$$y = 86550/593147 = 0.1459$$

Step 3: Solve for x

$$x = (y - b)/m = [(0.1459 - (-0.00642))/0.213] = 0.7152$$

Step 4: Solve for analyte concentration Cx

$$Cx = Cis (x) = (25.0)(0.7152) = 17.88$$

Example Spreadsheet Calculation:

Slope from curve, m:	0.213
Intercept from curve, b:	-0.00642
Area of analyte, Ax:	86550
Area of Internal Standard, Ais:	593147
Concentration of IS, Cis	25.00
Response Ratio:	0.145917
Amount Ratio:	0.715195
Concentration:	17.87988
Units of Internal Standard:	ug/L

5.0 Concentration from Quadratic Regression**Step 1 - Retrieve Curve Data from Plot, $y = Ax^2 + Bx + C$**

Where:

$$Ax^2 + Bx + (C - y) = 0$$

A, B, C = constants from the ICAL quadratic regression

y = Response ratio = Area of analyte/Area of internal standard (IS)

x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

$$y = Ax/Ais$$

Step 3: Solve for x using the quadratic formula

$$Ax^2 + Bx + C - y = 0$$

$$x = \frac{b \pm \sqrt{(b^2 - 4a(c - y))}}{2a} \quad (\text{Two possible solutions})$$

Step 4: Solve for analyte concentration Cx

$$Cx = (Cis)(\text{Amount ratio})$$

Example Spreadsheet Calculation:

Value of A from plot:	-0.00629
Value of B from plot:	0.511
Value of C from plot:	-0.0276
Area of unknown from quantitation report:	293821
Area of IS from quantitation report:	784848
Response ratio, y:	0.374367
C - y:	-0.40197
Root 1 - Computed amount ratio, X1:	80.44567
Root 2 - Computed amount ratio, X2:	0.794396 use this solution
Concentration of IS, Cis:	25.00
Concentration of analyte, Cx:	19.86 ug/L

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS14 Dataset: 101008
 Analyst1: MDA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: _____

Internal Standard: STD29209 Surrogate Standard: STD29108
 CCV: STD29205 LCS: STD29154 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG284610

Comments: _____

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	14M08677	WG284468-01 50ng BFB	NA	1	1	STD29166	10/10/08 09:29
2	14M08678	WG284468-02 50ug/L STD 8260	NA	1	1		10/10/08 10:04
3	14M08682	WG284467-01 50ng BFB	NA	1	1	STD29166	10/10/08 12:35
4	14M08683	WG284467-02 50ug/L STD 8260	NA	1	1	STD29145	10/10/08 12:59
5	14M08684	WG284468-03 100ug/L App-IX STD	NA	1	1	STD29124	10/10/08 13:30
6	14M08685	WG284469-01 vblk1010 BLANK 8260	NA	1	1		10/10/08 14:02
7	14M08686	WG284469-01 VBLK1010 BLANK 8260	NA	1	1		10/10/08 14:31
8	14M08687	WG284610-01 50ng BFB	NA	1	1	STD29166	10/10/08 16:05
9	14M08688	WG284610-02 0.3ug/L STD 8260	NA	1	1	STD29205	10/10/08 16:28
10	14M08689	WG284610-03 0.4ug/L STD 8260	NA	1	1	STD29205	10/10/08 17:00
11	14M08690	WG284610-04 1ug/L STD 8260	NA	1	1	STD29205	10/10/08 17:31
12	14M08691	WG284610-05 2ug/L STD 8260	NA	1	1	STD29205	10/10/08 18:02
13	14M08692	WG284610-06 5ug/L STD 8260	NA	1	1	STD29205	10/10/08 18:33
14	14M08693	WG284610-07 20ug/L STD 8260	NA	1	1	STD29205	10/10/08 19:04
15	14M08694	WG284610-08 50ug/L STD 8260	NA	1	1	STD29205	10/10/08 19:35
16	14M08695	WG284610-09 100ug/L STD 8260	NA	1	1	STD29205	10/10/08 20:06
17	14M08696	WG284610-10 200ug/L STD 8260	NA	1	1	STD29205	10/10/08 20:37
18	14M08697	WG284610-11 300ug/L STD 8260	NA	1	1	STD29205	10/10/08 21:08
19	14M08698	RINSE	NA	1	1		10/10/08 21:39
20	14M08699	RINSE	NA	1	1		10/10/08 22:09
21	14M08700	RINSE	NA	1	1		10/10/08 22:40
22	14M08701	WG284610-12 20ug/L ICV 8260	NA	1	1	STD29154	10/10/08 23:11
23	14M08702	WG284610-13 100ug/L APP-IX STD	NA	1	1	STD29154	10/10/08 23:45
24	14M08703	WG284610-13 vblk1010 blank 8260	NA	1	1		10/11/08 00:31
25	14M08704	rinse	NA	1	1		10/11/08 01:08
26	14M08705	rinse	NA	1	1		10/11/08 01:54
27	14M08706	rinse	NA	1	1		10/11/08 02:36
28	14M08707	WG284610-02 0.3ug/L STD 8260	NA	1	1	STD29205	10/11/08 03:19
29	14M08708	WG284610-12 20UG/L ICV 8260	NA		1	STD29154	10/11/08 03:50

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9				

Approved:



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS14 Dataset: 101008
Analyst1: MDA Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 12
Method: 5030B/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: _____

Internal Standard: STD29209 Surrogate Standard: STD29108
CCV: STD29205 LCS: STD29154 MS/MSD: NA
Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG284610

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 14M08688				
DNR RR				
22				
File ID: 14M08701				
DNR RR				

Approved:

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS6 Dataset: 102808
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26431

Internal Standard: STD29482 Surrogate Standard: STD29540
 CCV: STD29541 LCS: STD29544 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG286204

Comments: ICAL: VC, bromomethane 1-100; TBA 10-400.
Alt SCR: DCDF high.

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M79235	WG286204-01 50ng BFB STD 8260	NA	1	1	STD29166	10/28/08 08:47
2	6M79236	WG286204-01 50ng BFB STD 8260	NA	1	1	STD29166	10/28/08 09:04
3	6M79237	WG286204-02 50ug/L STD 8260	NA	1	1	STD29457	10/28/08 09:32
4	6M79238	WG286204-02 50ug/L STD 8260	NA	1	1	STD29457	10/28/08 10:10
5	6M79239	SYSTEM BLANK	NA	1	1		10/28/08 10:54
6	6M79240	SYSTEM BLANK	NA	1	1		10/28/08 14:10
7	6M79241	WG286204-01 50ng BFB STD 8260	NA	1	1	STD29166	10/28/08 15:16
8	6M79242	HEPTANE CHECK	NA	1	1	STD29538	10/28/08 15:43
9	6M79243	WG286204-02 0.3ug/L STD 8260	NA	1	1	STD29541	10/28/08 16:16
10	6M79244	WG286204-03 0.4ug/L STD 8260	NA	1	1	STD29541	10/28/08 16:49
11	6M79245	WG286204-04 1ug/L STD 8260	NA	1	1	STD29541	10/28/08 17:21
12	6M79246	WG286204-05 2ug/L STD 8260	NA	1	1	STD29541	10/28/08 17:55
13	6M79247	WG286204-06 5ug/L STD 8260	NA	1	1	STD29541	10/28/08 18:28
14	6M79248	WG286204-07 20ug/L STD 8260	NA	1	1	STD29541	10/28/08 19:00
15	6M79249	WG286204-08 50ug/L STD 8260	NA	1	1	STD29541	10/28/08 19:33
16	6M79250	WG286204-09 100ug/L STD 8260	NA	1	1	STD29541	10/28/08 20:07
17	6M79251	WG286204-10 200ug/L STD 8260	NA	1	1	STD29541	10/28/08 20:40
18	6M79252	WG286204-11 300ug/L STD 8260	NA	1	1	STD29541	10/28/08 21:12
19	6M79253	SYSTEM BLANK	NA	1	1		10/28/08 21:45
20	6M79254	SYSTEM BLANK	NA	1	1		10/28/08 22:18
21	6M79255	WG286204-12 20ug/L Alt Source STD 8260	NA	1	1		10/28/08 22:51
22	6M79256	SYSTEM BLANK	NA	1	1		10/28/08 23:23
23	6M79257	SYSTEM BLANK	NA	1	1		10/28/08 23:56

Approved: November 02, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS8 Dataset: 110308
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26491

Internal Standard: STD29337 Surrogate Standard: STD29539
 CCV: STD29651 LCS: STD29544 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG286725

Comments: ICAL - Vinyl acetate fails; DCDBF 1-100; VC 0.4-100, TBA 50-400
Alt Source - DCDFM high, 1,3-buta low, acrolein high, trans-1,4-d-2-b low.

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M349414	WG286725-01 BFB 50ng STD 8260	NA	1	1	STD29166	11/03/08 08:48
2	8M349415	WG286725-02 50ug/L STD 8260	NA	1	1	STD29572	11/03/08 09:16
3	8M349416	WG286725-02 50ug/L STD 8260	NA	1	1	STD29572	11/03/08 09:56
4	8M349417	WG286727-01 VBLK1103 BLANK 8260	NA	1	1		11/03/08 10:28
5	8M349418	WG286727-01 VBLK1103 BLANK 8260	NA	1	1		11/03/08 11:00
6	8M349419	SYSTEM BLANK	NA	1	1		11/03/08 11:56
7	8M349420	SYSTEM BLANK	NA	1	1		11/03/08 12:50
8	8M349421	WG286725-01 BFB 50ng STD 8260	NA	1	1	STD29166	11/03/08 15:02
9	8M349422	WG286725-01 BFB 50ng STD 8260	NA	1	1	STD29166	11/03/08 15:30
10	8M349423	SYSTEM BLANK	NA	1	1		11/03/08 15:55
11	8M349424	WG286725-02 0.3ug/L STD 8260	NA	1	1	STD29651	11/03/08 16:29
12	8M349425	WG286725-03 0.4ug/L STD 8260	NA	1	1	STD29651	11/03/08 17:01
13	8M349426	WG286725-04 1ug/L STD 8260	NA	1	1	STD29651	11/03/08 17:33
14	8M349427	WG286725-05 2ug/L STD 8260	NA	1	1	STD29651	11/03/08 18:05
15	8M349428	WG286725-06 5ug/L STD 8260	NA	1	1	STD29651	11/03/08 18:37
16	8M349429	WG286725-07 20ug/L STD 8260	NA	1	1	STD29651	11/03/08 19:09
17	8M349430	WG286725-08 50ug/L STD 8260	NA	1	1	STD29651	11/03/08 19:41
18	8M349431	WG286725-09 100ug/L STD 8260	NA	1	1	STD29651	11/03/08 20:13
19	8M349432	WG286725-10 200ug/L STD 8260	NA	1	1	STD29651	11/03/08 20:45
20	8M349433	WG286725-11 300ug/L STD 8260	NA	1	1	STD29651	11/03/08 21:17
21	8M349434	SYSTEM BLANK	NA	1	1		11/03/08 21:49
22	8M349435	SYSTEM BLANK	NA	1	1		11/03/08 22:20
23	8M349436	WG286725-12 20ug/L Alt Source STD 8260	NA	1	1	STD29544	11/03/08 22:52
24	8M349437	SYSTEM BLANK	NA	1	1		11/03/08 23:24
25	8M349438	L08010042-01 HEPTAN	NA	1	1	STD29538	11/03/08 23:56
26	8M349439	L08010042-02 HEPTAN	NA	1	1	STD29538	11/04/08 00:27
27	8M349440	L08010042-03 HEPTAN	NA	1	1	STD29538	11/04/08 00:59
28	8M349441	L08010042-04 HEPTAN	NA	1	1	STD29538	11/04/08 01:31
29	8M349442	L08010042-05 HEPTAN	NA	1	1	STD29538	11/04/08 02:03
30	8M349443	L08010042-06 HEPTAN	NA	1	1	STD29538	11/04/08 02:34
31	8M349444	L08010042-07 HEPTAN	NA	1	1	STD29538	11/04/08 03:06

Approved: November 11, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 110508
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26567

Internal Standard: STD29337 Surrogate Standard: STD29539
 CCV: STD29651 LCS: STD29544 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG286952, WG287056

Comments: Instrument stopped with App 0 died error.

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M349471	WG286951-01 BFB 50ng STD 8260	NA	1	1	STD29166	11/05/08 07:36
2	8M349472	WG286951-02 50ug/L STD 8260	NA	1	1	STD29651	11/05/08 08:03
3	8M349473	WG286952-01 VBLK1105 BLANK 8260	NA	1	1		11/05/08 08:38
4	8M349474	WG286952-01 VBLK1105 BLANK 8260	NA	1	1		11/05/08 09:10
5	8M349475	WG286952-02 20ug/L LCS STD 8260	NA	1	1	STD29544	11/05/08 09:42
6	8M349476	WG286952-03 20ug/L LCS DUP STD 8260	NA	1	1	STD29544	11/05/08 10:14
7	8M349477	L08100685-02 B 10X 826-SPE	=7	1	10		11/05/08 10:46
8	8M349478	L08100835-03 A 826-SPE	<2	1	1		11/05/08 11:18
9	8M349479	L08100748-05 A 826-SPE	<2	1	1		11/05/08 11:50
10	8M349480	L08100703-23 B 826-SPE	<2	1	1		11/05/08 12:22
11	8M349481	L08100835-01 B 826-SPE	<2	1	1		11/05/08 12:54
12	8M349482	L08100835-02 B 826-SPE	<2	1	1		11/05/08 13:26
13	8M349483	L08100791-05 A 826-SPE	<2	1	1		11/05/08 13:58
14	8M349484	L08100791-06 A 826-SPE	<2	1	1		11/05/08 14:30
15	8M349485	L08100747-03 A 826-SPE	<2	1	1		11/05/08 15:02
16	8M349486	L08100747-05 A 826-SPE	<2	1	1		11/05/08 15:34
17	8M349487	L08100747-06 A 826-SPE	<2	1	1		11/05/08 16:06
18	8M349488	L08100748-01 A 826-SPE	<2	1	1		11/05/08 16:38
19	8M349489	L08100748-02 A 826-SPE	<2	1	1		11/05/08 17:10
20	8M349490	L08100748-03 A 826-SPE	<2	1	1		11/05/08 17:42
21	8M349491	L08100748-04 A 826-SPE	<2	1	1		11/05/08 18:14
22	8M349492	L08100747-04 A 826-SPE	<2	1	1		11/05/08 18:46
23	8M349493	WG287055-01 BFB 50ng STD 8260	NA	1	1	STD29166	11/05/08 19:16
24	8M349494	WG287055-02 50ug/L STD 8260	NA	1	1	STD29651	11/05/08 19:41
25	8M349495	WG287056-01 VBLK1105 BLANK 8260	NA	1	1		11/05/08 20:14
26	8M349496	WG287056-01 VBLK1105 BLANK 8260	NA	1	1		11/05/08 20:45
27	8M349497	WG287056-02 20ug/L LCS STD 8260	NA	1	1	STD29700	11/05/08 21:17
28	8M349498	WG287056-03 20ug/L LCS DUP STD 8260	NA	1	1	STD29700	11/05/08 21:49
29	8M349499	WG286725-13 OXY ALT SRC	NA	1	1	STD29700	11/05/08 22:21
30	8M349501	L08100791-06 5X B 826-SPE	<2	1	5		11/05/08 22:53
31	8M349502	L08100708-08 A 826-SPE1	<2	1	1		11/05/08 23:25

Comments

Approved: November 17, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS8 Dataset: 110508
Analyst1: CAA Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 12
Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26567

Internal Standard: STD29337 Surrogate Standard: STD29539
CCV: STD29651 LCS: STD29544 MS/MSD: NA
Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG286952, WG287056

Comments: Instrument stopped with App 0 died error.Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Carry-over contamination	
File ID: 8M349473				
WG286952-01 VBLK1105 BLANK 8260				
14	X	5	Over Calibration Range	TetraCE
File ID: 8M349484				
L08100791-06 A 826-SPE				

Approved: November 17, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS6 Dataset: 110808
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26593

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29572 LCS: STD29700 MS/MSD: STD29700
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287338

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M79576	WG287337-01 50ng BFB	NA	1	1	STD29166	11/08/08 17:28
2	6M79577	WG287337-02 50ug/L STD 8260	NA	1	1	STD29572	11/08/08 17:55
3	6M79578	WG287338-01 VBLK1108 BLANK 8260	NA	1	1		11/08/08 18:38
4	6M79579	WG287338-01 VBLK1108 BLANK 8260	NA	1	1		11/08/08 19:10
5	6M79580	WG287338-02 20ug/L LCS 8260	NA	1	1	STD29700	11/08/08 19:42
6	6M79581	WG287338-03 20ug/L LCSD 8260	NA	1	1	STD29700	11/08/08 20:13
7	6M79582	L08100887-18 A 826-LOW	NA	1	1		11/08/08 20:46
8	6M79583	L08100887-13 A 826-LOW	NA	1	1		11/08/08 21:18
9	6M79584	blank	NA	1	1		11/08/08 22:18
10	6M79585	blank	NA	1	1		11/08/08 22:50
11	6M79586	blank	NA	1	1		11/08/08 23:21
12	6M79587	L08100887-07 A 500X 826-LOW	NA	1	500		11/08/08 23:53
13	6M79588	L08100887-08 A 5000X 826-LOW	NA	1	5000		11/09/08 00:25
14	6M79589	L08100887-05 A 100X 826-LOW	NA	1	100		11/09/08 00:57
15	6M79590	L08100887-10 A 5X 826-LOW	NA	1	5		11/09/08 01:29
16	6M79591	L08100887-11 A 5X 826-LOW	NA	1	5		11/09/08 02:01
17	6M79592	L08100887-12 A 50X 826-LOW	NA	1	50		11/09/08 02:33
18	6M79593	L08100887-04 A 50X 826-LOW	NA	1	50		11/09/08 03:05
19	6M79594	L08100887-14 A 10,000X 826-LOW	NA	1	10000		11/09/08 03:37
20	6M79595	L08100887-15 A 10,000X 826-LOW	NA	1	10000		11/09/08 04:09
21	6M79596	L08100887-06 A 100X 826-LOW	NA	1	100		11/09/08 04:41
22	6M79597	L08100887-17 A 50X 826-LOW	NA	1	50		11/09/08 05:13
23	6M79598	L08100887-19 A 500X 826-LOW	NA	1	500		11/09/08 05:45
24	6M79599	L08100887-22 A 500X 826-LOW	NA	1	500		11/09/08 06:17
25	6M79600	BLANK	NA	1	1		11/09/08 06:49
26	6M79601	BLANK	NA	1	1		11/09/08 07:21
27	6M79602	CHECK	NA	1	1		11/09/08 07:53

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Carry-over contamination	
File ID: 6M79578				
WG287338-01 VBLK1108 BLANK 8260				

Approved: November 18, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS6 Dataset: 110808
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26593

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29572 LCS: STD29700 MS/MSD: STD29700
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287338

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
7	X		Carry-over contamination	
File ID: 6M79582				
L08100887-18 A 826-LOW				
8	X	100	Over Calibration Range	VC, Ace, Cis-1,2-DCE, TriCE, CH2Cl2
File ID: 6M79583				
L08100887-13 A 826-LOW				
12	X	250	Analyzed too dilute	
File ID: 6M79587				
L08100887-07 A 500X 826-LOW				
13	X	2500	Analyzed too dilute	
File ID: 6M79588				
L08100887-08 A 5000X 826-LOW				
15	X	1	Analyzed too dilute	
File ID: 6M79590				
L08100887-10 A 5X 826-LOW				
16	X	1	Analyzed too dilute	
File ID: 6M79591				
L08100887-11 A 5X 826-LOW				
17	X	250	Over Calibration Range	TriCE
File ID: 6M79592				
L08100887-12 A 50X 826-LOW				
18	X	25	Analyzed too dilute	
File ID: 6M79593				
L08100887-04 A 50X 826-LOW				
23	X	100	Missed Tune	
File ID: 6M79598				
L08100887-19 A 500X 826-LOW				
24	X	500	Missed Tune	
File ID: 6M79599				
L08100887-22 A 500X 826-LOW				

Approved: November 18, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS14 Dataset: 110808
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26586

Internal Standard: STD29398 Surrogate Standard: STD29729
 CCV: STD29572 LCS: STD29700 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 287340

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	14M09702	WG287339-01 50ng BFB	NA	1	1	STD29166	11/08/08 17:56
2	14M09703	WG287339-02 50ug/L STD 8260	NA	1	1	STD29572	11/08/08 18:20
3	14M09704	WG287340-01 VBLK1108 BLANK 82560	NA	1	1		11/08/08 19:02
4	14M09705	WG287340-01 VBLK1108 BLANK 82561	NA	1	1		11/08/08 19:33
5	14M09706	WG287340-02 20ug/L LCS 8260	NA	1	1	STD29700	11/08/08 20:04
6	14M09707	WG287340-03 20ug/L LCSD 8260	NA	1	1	STD29700	11/08/08 20:35
7	14M09708	L08100842-01 10X A 826-TC	NA	17	10		11/08/08 21:06
8	14M09709	L08100762-02 B 826-SPE	<2	1	1		11/08/08 21:37
9	14M09710	L08100762-03 B 5X 826-SPE	<2	1	5		11/08/08 22:07
10	14M09711	L08100886-01 B 826-SPE	<2	1	1		11/08/08 22:39
11	14M09712	L08100886-02 B 826-SPE	<2	1	1		11/08/08 23:10
12	14M09713	L08100886-03 A 826-SPE	7	1	1		11/08/08 23:41
13	14M09714	L08100886-04 A 826-SPE	<2	1	1		11/09/08 00:12
14	14M09715	L08100886-05 A 826-SPE	<2	1	1		11/09/08 00:43
15	14M09716	L08100886-06 A 826-SPE	<2	1	1		11/09/08 01:14
16	14M09717	L08100886-07 A 826-SPE	<2	1	1		11/09/08 01:45
17	14M09718	L08100867-11 A 50,000X 826-LOW	<2	1	50000		11/09/08 02:16
18	14M09719	L08100887-01 A 100X 826-LOW	<2	1	100		11/09/08 02:47
19	14M09720	L08100887-02 A 10,000X 826-LOW	<2	1	10000		11/09/08 03:18
20	14M09721	L08100887-03 A 10,000X 826-LOW	<2	1	10000		11/09/08 03:48
21	14M09722	L08100777-09 B 500X 826-SPE	<2	1	500		11/09/08 04:20
22	14M09723	L08100777-07 B 5000X 826-SPE	<2	1	5000		11/09/08 04:51
23	14M09724	L08100777-08 B 5000X 826-SPE	<2	1	5000		11/09/08 05:22
24	14M09725	BLANK	NA	1	1		11/09/08 05:53
25	14M09726	BLANK	NA	1	1		11/09/08 06:24

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10	X		Internal standard and surrogate standard failure	
File ID: 14M09711				
11	X		Surrogate standard failure	
File ID: 14M09712				

Approved: November 14, 2008

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Aseli Bucina



Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS14 Dataset: 110808
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26586

Internal Standard: STD29398 Surrogate Standard: STD29729
 CCV: STD29572 LCS: STD29700 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 287340

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
13	X		Surrogate standard failure	
File ID: 14M09714				
14	X		Surrogate standard failure	
File ID: 14M09715				
15	X		Surrogate standard failure	
File ID: 14M09716				
16	X		Surrogate standard failure	
File ID: 14M09717				
17	X	100000	Over Calibration Range	methylene chloride
File ID: 14M09718				
21	X	50	Analyzed too dilute	Trichlorofluoromethane
File ID: 14M09722				
22	X	5000	Internal standard failure	
File ID: 14M09723				
23	X	5000	Internal standard failure	
File ID: 14M09724				

Approved: November 14, 2008

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Alexis Bucina



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 110908
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26595

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29572 LCS: STD29749 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287349

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M79603	WG287348-01 50ng BFB	NA	1	1	STD29166	11/09/08 10:55
2	6M79604	WG287348-02 50ug/L STD 8260	NA	1	1	STD29572	11/09/08 11:22
3	6M79605	SYSTEM CHECK	NA	1	1	STD29572	11/09/08 11:54
4	6M79606	SYSTEM CHECK	NA	1	1	STD29572	11/09/08 12:26
5	6M79607	WG287348-01 50ng BFB STD 8260	NA	1	1	STD29166	11/09/08 12:59
6	6M79608	WG287348-02 50ug/L STD 8260	NA	1	1	STD29572	11/09/08 13:27
7	6M79609	WG287348-02 50ug/L STD 8260	NA	1	1	STD29572	11/09/08 14:12
8	6M79610	WG287349-01 VBLK1109 BLANK 8260	NA	1	1		11/09/08 14:49
9	6M79611	WG287349-01 VBLK1109 BLANK 8260	NA	1	1		11/09/08 15:21
10	6M79612	WG287349-02 20ug/L LCS STD 8260	NA	1	1	STD29749	11/09/08 15:53
11	6M79613	WG287349-03 20ug/L LCS DUP STD 8260	NA	1	1	STD29749	11/09/08 16:25
12	6M79614	L08100864-01 B 5X 826-SPE	<2	1	5		11/09/08 16:56
13	6M79615	L08100850-01 A 826-SPE	<2	1	1		11/09/08 17:28
14	6M79616	L08100887-10 B 826-SPE	<2	1	1		11/09/08 18:01
15	6M79617	L08100887-12 B 250X 826-SPE	<2	1	250		11/09/08 18:33
16	6M79618	L08100887-07 B 250X 826-SPE	<2	1	250		11/09/08 19:04
17	6M79619	L08100887-08 B 2500X 826-SPE	<2	1	2500		11/09/08 19:36
18	6M79620	L08100887-04 B 25X 826-SPE	<2	1	25		11/09/08 20:08
19	6M79621	L08100887-19 B 100X 826-SPE	<2	1	100		11/09/08 20:40
20	6M79622	L08100887-22 B 500X 826-SPE	<2	1	500		11/09/08 21:12
21	6M79623	L08100887-13 B 100X 826-SPE	<2	1	100		11/09/08 21:44
22	6M79624	L08100850-02 A 826-SPE	<2	1	1		11/09/08 22:17
23	6M79625	L08100850-03 A 826-SPE	<2	1	1		11/09/08 22:48
24	6M79626	L08100850-04 A 826-SPE	<2	1	1		11/09/08 23:20
25	6M79627	L08100850-05 A 826-SPE	<2	1	1		11/09/08 23:53
26	6M79628	L08100850-06 A 826-SPE	<2	1	1		11/10/08 00:25
27	6M79629	L08100850-07 A 826-SPE	<2	1	1		11/10/08 00:56
28	6M79630	SYSTEM BLANK	NA	1	1		11/10/08 01:29
29	6M79631	WG287349-04 624 BLANK	NA	2	1		11/10/08 02:00
30	6M79632	L08110088-01 A 624-SPE1	=7	2	1		11/10/08 02:33
31	6M79633	L08110140-02 A 624-SPE	=7	2	1		11/10/08 03:04
32	6M79634	L08110140-01 A 500X 624-SPE	=7	2	500		11/10/08 03:36
33	6M79635	SYSTEM CHECK	NA	1	1		11/10/08 04:09

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS6 Dataset: 110908
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26595

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29572 LCS: STD29749 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287349

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
6	X			
File ID: 6M79608				
WG287348-02 50ug/L STD 8260 - VC fails high.				
8	X		Carry-over contamination	
File ID: 6M79610				
WG287349-01 VBLK1109 BLANK 8260				
14				
File ID: 6M79616				
L08100887-10 B 826-SPE - SS DBFM high.				
20				
File ID: 6M79622				
L08100887-22 B 500X 826-SPE - SS DBFM high.				
21	X	500	Over Calibration Range	Trice
File ID: 6M79623				
L08100887-13 B 100X 826-SPE				
26	X	25	Over Calibration Range	TetraCE
File ID: 6M79628				
L08100850-06 A 826-SPE				
27	X		Carry-over contamination	
File ID: 6M79629				
L08100850-07 A 826-SPE				

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 111008
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26606

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29572 LCS: STD29749 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287385

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M79636	WG287382-01 50ng BFB STD 8260	NA	1	1	STD29746	11/10/08 07:27
2	6M79637	WG287382-02 50ug/L STD 8260	NA	1	1	STD29572	11/10/08 07:54
3	6M79638	WG287385-01 VBLK1110 BLANK 8260	NA	1	1		11/10/08 08:31
4	6M79639	WG287385-01 VBLK1110 BLANK 8260	NA	1	1		11/10/08 09:02
5	6M79640	WG287385-02 20ug/L LCS STD 8260	NA	1	1	STD29749	11/10/08 09:34
6	6M79641	WG287385-03 20ug/L LCS DUP STD 8260	NA	1	1	STD29749	11/10/08 10:06
7	6M79642	L08100887-13 B 500X 826-SPE	<2	1	500		11/10/08 10:39
8	6M79643	L08100850-06 B 25X 826-SPE	<2	1	25		11/10/08 11:11
9	6M79644	L08100875-01 A 826-SPE	<2	1	1		11/10/08 11:43
10	6M79645	L08100887-18 B 826-SPE	<2	1	1		11/10/08 12:15
11	6M79646	L08110004-01 A 826-SPE	<2	1	1		11/10/08 12:47
12	6M79647	L08110065-01 A 826-SPE	<2	1	1		11/10/08 13:19
13	6M79648	L08100850-07 B 826-SPE	<2	1	1		11/10/08 13:51
14	6M79649	L08100875-02 A 826-SPE	<2	1	1		11/10/08 14:23
15	6M79650	L08100875-03 A 826-SPE	<2	1	1		11/10/08 14:55
16	6M79651	L08100875-04 A 826-SPE	<2	1	1		11/10/08 15:27
17	6M79652	L08110004-02 A 826-SPE	<2	1	1		11/10/08 15:58
18	6M79653	L08110004-03 A 826-SPE	<2	1	1		11/10/08 16:30
19	6M79654	L08110004-04 A 826-SPE	<2	1	1		11/10/08 17:02
20	6M79655	L08110004-05 A 826-SPE	<2	1	1		11/10/08 17:34
21	6M79656	L08110004-06 A 826-SPE	<2	1	1		11/10/08 18:06
22	6M79657	L08110065-02 A 826-SPE	<2	1	1		11/10/08 18:38
23	6M79658	L08110065-03 A 826-SPE	<2	1	1		11/10/08 19:10
24	6M79659	SYSTEM BLANK	NA	1	1		11/10/08 19:42
25	6M79660	WG287385-04 624 BLANK	NA	2	1		11/10/08 20:13
26	6M79661	L08110169-02 A 624-SPE	=7	2	1		11/10/08 20:45
27	6M79662	L08110159-02 A 624-SPE3	=7	2	1		11/10/08 21:17
28	6M79663	SYSTEM CHECK	NA	1	1		11/10/08 21:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Carry-over contamination	
File ID: 6M79638				

Approved: November 18, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 111008
Analyst1: CAA Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 12
Method: 5030B/5035 SOP: PAT01 Rev: 11
Method: 624 SOP: MSV10 Rev: 7
Maintenance Log ID: 26606

Internal Standard: STD29613 Surrogate Standard: STD29540
CCV: STD29572 LCS: STD29749 MS/MSD: NA
Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG287385

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
WG287385-01 VBLK1110 BLANK 8260				
26	X		Internal standard failure	Istd 1 low.
File ID: 6M79661				
L08110169-02 A 624-SPE				

Approved: November 18, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 111008
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26582

Internal Standard: STD29337 Surrogate Standard: STD29539
 CCV: STD29651 LCS: STD29749 MS/MSD: STD29749
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287402

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M349596	WG287400-01 50ng BFB STD 8260	NA	1	1	STD29746	11/10/08 08:52
2	8M349597	WG287400-02 50ug/L STD 8260	NA	1	1	STD29651	11/10/08 09:19
3	8M349598	WG287402-01 VBLK1110 BLANK 8260	NA	1	1		11/10/08 09:56
4	8M349599	WG287402-01 VBLK1110 BLANK 8260	NA	1	1		11/10/08 10:28
5	8M349600	WG287402-02 20ug/L LCS STD 8260	NA	1	1	STD29749	11/10/08 11:00
6	8M349601	WG287402-03 20ug/L LCS DUP STD 8260	NA	1	1	STD29749	11/10/08 11:32
7	8M349602	L08110176-02 A 826-BETX	<2	1	1		11/10/08 12:04
8	8M349603	L08110016-05 B 826-SPE1	=7	1	1		11/10/08 12:36
9	8M349604	L08100887-28 A 826-LOW	<2	1	1		11/10/08 13:08
10	8M349605	L08100887-11 B 826-LOW	<2	1	1		11/10/08 13:40
11	8M349606	L08110017-01 A 826-SPE	<2	1	1		11/10/08 14:12
12	8M349607	L08110017-02 A 826-SPE	<2	1	1		11/10/08 14:44
13	8M349608	L08110017-03 A 826-SPE	<2	1	1		11/10/08 15:16
14	8M349609	L08110017-04 A 826-SPE	<2	1	1		11/10/08 15:48
15	8M349610	L08100887-20 A 250X 826-LOW	<2	1	250		11/10/08 16:20
16	8M349611	L08100887-21 A 250X 826-LOW	<2	1	250		11/10/08 16:52
17	8M349612	L08100887-23 A 500X 826-LOW	<2	1	500		11/10/08 17:23
18	8M349613	L08100887-24 A 2.5X 826-LOW	<2	1	2.5		11/10/08 17:56
19	8M349614	L08100887-25 A 25X 826-LOW	<2	1	25		11/10/08 18:28
20	8M349615	L08100887-27 A 5X 826-LOW	<2	1	5		11/10/08 18:59
21	8M349616	L08100887-26 A 10X 826-LOW	<2	1	10		11/10/08 19:31
22	8M349617	L08100887-09 A 826-LOW	<2	1	1		11/10/08 20:03
23	8M349618	L08100887-16 A 826-LOW	<2	1	1		11/10/08 20:35
24	8M349619	SYSTEM BLANK	NA	1	1		11/10/08 21:07
25	8M349620	SYSTEM CHECK	NA	1	1		11/10/08 21:39

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Carry-over contamination	
File ID: 8M349598				
WG287402-01 VBLK1110 BLANK 8260				
15	X	2000	Over Calibration Range	TriCE
File ID: 8M349610				

Approved: November 12, 2008

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Aseli Bucina

Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS8 Dataset: 111008
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26582

Internal Standard: STD29337 Surrogate Standard: STD29539
 CCV: STD29651 LCS: STD29749 MS/MSD: STD29749
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287402

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
L08100887-20 A 250X 826-LOW				
16	X	2000	Over Calibration Range	TriCE
File ID: 8M349611				
L08100887-21 A 250X 826-LOW				
17	X	50	Analyzed too dilute	
File ID: 8M349612				
L08100887-23 A 500X 826-LOW				
18	X	1	Analyzed too dilute	
File ID: 8M349613				
L08100887-24 A 2.5X 826-LOW				
19	X	5	Analyzed too dilute	
File ID: 8M349614				
L08100887-25 A 25X 826-LOW				
20	X	1	Analyzed too dilute	
File ID: 8M349615				
L08100887-27 A 5X 826-LOW				
21	X	2.5	Analyzed too dilute	
File ID: 8M349616				
L08100887-26 A 10X 826-LOW				
22				
File ID: 8M349617				
L08100887-09 A 826-LOW - SS Tol low.				

Approved: November 12, 2008

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Alexis Bucina



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 111108
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26610

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29734 LCS: STD29761 MS/MSD: STD29761
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287486, WG287595

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	6M79664	WG287485-01 50ng BFB STD 8260	NA	1	1	STD29746	11/11/08 07:21
2	6M79665	WG287485-02 50ug/L STD 8260	NA	1	1	STD29734	11/11/08 07:48
3	6M79666	WG287485-02 50ug/L STD 8260	NA	1	1	STD29734	11/11/08 08:26
4	6M79667	WG287486-01 VBLK1111 BLANK 8260	NA	1	1		11/11/08 09:09
5	6M79668	WG287486-01 VBLK1111 BLANK 8260	NA	1	1		11/11/08 09:41
6	6M79669	WG287486-02 20ug/L LCS STD 8260	NA	1	1	STD29761	11/11/08 10:13
7	6M79670	L08110110-01 A 826-BETX	<2	1	1		11/11/08 10:45
8	6M79671	L08100844-04 A 8260	<2	1	1		11/11/08 11:17
9	6M79672	L08100844-01 A REF 8260	<2	1	1		11/11/08 11:49
10	6M79673	L08100844-02 A MS 8260	<2	1	1		11/11/08 12:21
11	6M79674	L08100844-03 A MSD 8260	<2	1	1		11/11/08 12:53
12	6M79675	L08110068-05 B 50X 826-BETX	<2	1	50		11/11/08 13:25
13	6M79676	L08100887-26 B 2.5X 826-SPE	<2	1	2.5		11/11/08 13:57
14	6M79677	L08100887-24 B 826-SPE	<2	1	1		11/11/08 14:29
15	6M79678	L08100887-27 B 826-SPE	<2	1	1		11/11/08 15:02
16	6M79679	L08100887-23 B 50X 826-SPE	<2	1	50		11/11/08 15:34
17	6M79680	L08100887-25 B 5X 826-SPE	<2	1	5		11/11/08 16:07
18	6M79681	WG287594-01 BFB 50ng STD 8260	NA	1	1		11/11/08 16:46
19	6M79682	WG287594-02 50ug/L STD 8260	NA	1	1	STD29734	11/11/08 17:11
20	6M79683	WG287595-01 VBLK1111 BLANK 8260	NA	1	1		11/11/08 17:43
21	6M79684	WG287595-01 VBLK1111 BLANK 8260	NA	1	1		11/11/08 18:15
22	6M79685	WG287595-02 20ug/L LCS STD 8260	NA	1	1	STD29761	11/11/08 18:47
23	6M79686	L08110068-05 B 826-BETX	<2	1	1		11/11/08 19:19
24	6M79687	L08110068-08 B 826-BETX	<2	1	1		11/11/08 19:51
25	6M79688	L08110017-17 A 826-SPE	<2	1	1		11/11/08 20:23
26	6M79689	L08110017-07 REF A 826-SPE	<2	1	1		11/11/08 20:55
27	6M79690	L08110017-08 MS A 826-SPE	<2	1	1	STD29761	11/11/08 21:27
28	6M79691	L08110017-09 MSD A 826-SPE	<2	1	1	STD29761	11/11/08 21:59
29	6M79692	L08110068-06 25X A 826-BETX	<2	1	25		11/11/08 22:31
30	6M79693	L08110068-07 50X A 826-BETX	=7	1	50		11/11/08 23:03
31	6M79694	L08110017-10 A 826-SPE	<2	1	1		11/11/08 23:35
32	6M79695	L08110017-12 A 826-SPE	<2	1	1		11/12/08 00:07
33	6M79696	L08110017-14 A 826-SPE	<2	1	1		11/12/08 00:39
34	6M79697	L08110017-15 A 826-SPE	<2	1	1		11/12/08 01:11

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Instrument Run Log

Instrument: HPMS6 Dataset: 111108
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26610

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29734 LCS: STD29761 MS/MSD: STD29761
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287486, WG287595

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
35	6M79698	L08110017-16 A 826-SPE	<2	1	1		11/12/08 01:43
36	6M79699	L08110017-18 A 826-SPE	<2	1	1		11/12/08 02:16
37	6M79700	L08110017-05 A 826-SPE	<2	1	1		11/12/08 02:48
38	6M79701	L08110017-06 A 826-SPE	<2	1	1		11/12/08 03:20
39	6M79702	L08110017-11 A 826-SPE	<2	1	1		11/12/08 03:52
40	6M79703	L08110017-13 A 826-SPE	<2	1	1		11/12/08 04:24
41	6M79704	SYSTEM BLANK	NA	1	1		11/12/08 04:58
42	6M79705	WG287594-06 624 BLANK	NA	1	1		11/12/08 05:31
43	6M79706	L08110169-02 B 624-SPE	=7	1	1		11/12/08 06:03
44	6M79707	SYSTEM CHECK	NA	1	1		11/12/08 06:35

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 6M79665				
WG287485-02 50ug/L STD 8260 - VC high.				
4	X		Carry-over contamination	
File ID: 6M79667				
WG287486-01 VBLK1111 BLANK 8260				
12	X	1	Analyzed too dilute	
File ID: 6M79675				
L08110068-05 B 50X 826-BETX				
20	X		Carry-over contamination	
File ID: 6M79683				
WG287595-01 VBLK1111 BLANK 8260				
29	X	200	Over Calibration Range	benz, tol
File ID: 6M79692				
L08110068-06 25X A 826-BETX				
31	X	10	Over Calibration Range	cis-1,2-DCE
File ID: 6M79694				
L08110017-10 A 826-SPE				
32	X	5	Over Calibration Range	cis-1,2-DCE
File ID: 6M79695				
L08110017-12 A 826-SPE				
33	X	2	Over Calibration Range	VC

Approved: November 18, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS6 Dataset: 111108
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26610

Internal Standard: STD29613 Surrogate Standard: STD29540
 CCV: STD29734 LCS: STD29761 MS/MSD: STD29761
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287486, WG287595

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 6M79696				
L08110017-14 A 826-SPE				
37	X	25	Over Calibration Range	trans, cis-1,2-DCE, TriCE
File ID: 6M79700				
L08110017-05 A 826-SPE				
38	X	25	Over Calibration Range	trans, cis-1,2-DCE, TriCE, CM
File ID: 6M79701				
L08110017-06 A 826-SPE				
39	X		Carry-over contamination	
File ID: 6M79702				
L08110017-11 A 826-SPE				
40	X		Carry-over contamination	
File ID: 6M79703				
L08110017-13 A 826-SPE				

Approved: November 18, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS8 Dataset: 111108
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26599

Internal Standard: STD29337 Surrogate Standard: STD29539
 CCV: STD29734 LCS: STD29761 MS/MSD: STD29761
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287488

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M349621	WG287487-01 50ng BFB STD 8260	NA	1	1	STD29746	11/11/08 07:35
2	8M349622	WG287487-02 50ug/L STD 8260	NA	1	1	STD29734	11/11/08 08:02
3	8M349623	WG287488-01 VBLK1111 BLANK 8260	NA	1	1		11/11/08 08:39
4	8M349624	WG287488-01 VBLK1111 BLANK 8260	NA	1	1		11/11/08 09:11
5	8M349625	WG287488-02 20ug/L LCS STD 8260	NA	1	1	STD29761	11/11/08 09:43
6	8M349627	L08100887-20 B 2000X 826-LOW	<2	1	2000		11/11/08 10:15
7	8M349628	L08100887-21 B 2000X 826-LOW	<2	1	2000		11/11/08 10:47
8	8M349629	L08100861-01 B 826-SPE	<2	1	1		11/11/08 11:19
9	8M349630	L08100861-02 B 826-SPE	<2	1	1		11/11/08 11:51
10	8M349631	L08100886-11 A 826-SPE	<2	1	1		11/11/08 12:23
11	8M349632	L08100886-12 A 826-SPE	<2	1	1		11/11/08 12:55
12	8M349633	L08100886-08 A REF 826-SPE	<2	1	1		11/11/08 13:27
13	8M349634	L08100886-09 B MS 826-SPE	<2	1	1		11/11/08 13:59
14	8M349635	L08100886-10 B MSD 826-SPE	<2	1	1		11/11/08 14:31
15	8M349636	L08110030-04 B 2X 826-SPE1	<2	1	2		11/11/08 15:03
16	8M349637	L08110017-01 B 5X 826-SPE	<2	1	5		11/11/08 15:35
17	8M349638	L08100861-02 C 826-SPE	<2	1	1		11/11/08 16:07
18	8M349639	L08100886-05 C 826-SPE	<2	1	1		11/11/08 16:39
19	8M349640	L08100886-06 C 826-SPE	<2	1	1		11/11/08 17:11
20	8M349641	L08100886-07 C 826-SPE	<2	1	1		11/11/08 17:43
21	8M349642	L08110011-01 A 826-SPE	<2	1	1		11/11/08 18:15
22	8M349643	L08110011-02 A 826-SPE	=7	1	1		11/11/08 18:47
23	8M349644	L08110011-03 A 826-SPE	<2	1	1		11/11/08 19:19
24	8M349645	SYSTEM BLANK	NA	1	1		11/11/08 19:51
25	8M349646	SYSTEM CHECK	NA	1	1		11/11/08 20:22

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X		Carry-over contamination	
File ID: 8M349624				
WG287488-01 VBLK1111 BLANK 8260				
9	X		Carry-over contamination	
File ID: 8M349630				

Approved: November 14, 2008

Page: 1

Aseli Bucina



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 111108
Analyst1: CAA Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 12
Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26599

Internal Standard: STD29337 Surrogate Standard: STD29539
CCV: STD29734 LCS: STD29761 MS/MSD: STD29761

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG287488

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
L08100861-02 B 826-SPE				

Approved: November 14, 2008

Page: 2

Alexis Bucina



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS14 Dataset: 111108
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 11
 Maintenance Log ID: 26686

Internal Standard: STD29611 Surrogate Standard: STD29729
 CCV: STD29811, STD29743 LCS: STD29761, STD29744 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 287499

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	14M09752	WG287498-01 50ng BFB	NA	1	1	STD29166	11/11/08 08:28
2	14M09753	WG287498-02 50ug/L STD 8260	NA	1	1	STD29572	11/11/08 08:52
3	14M09754	WG287498-02 50ug/L STD 8260	NA	1	1	STD29572	11/11/08 09:23
4	14M09755	WG287500-01 CCV A9FOO	NA	1	1	STD29743	11/11/08 09:54
5	14M09756	WG287499-01 BLANK 8260	NA	1	1		11/11/08 10:25
6	14M09757	WG287499-01 BLANK 8260	NA	1	1		11/11/08 10:56
7	14M09758	WG287499-02 LCS 20ug/L 8260	NA	1	1	STD29761	11/11/08 11:27
8	14M09759	WG287499-03 LCSD 20ug/L 8260	NA	1	1	STD29761	11/11/08 11:58
9	14M09760	WG287499-04 LCS A9FOO	NA	1	1	STD29744	11/11/08 12:30
10	14M09761	WG287499-05 LCSD A9FOO	NA	1	1	STD29744	11/11/08 13:01
11	14M09762	SYSTEM BLANK	NA	1	1		11/11/08 13:31
12	14M09763	L08110122-04 B 826-SPE, A9	7	1	1		11/11/08 14:02
13	14M09764	L08110122-05 B 826-SPE, A9	7<2	1	1		11/11/08 14:33
14	14M09765	L08110122-01 B 2X 826-SPE, A9	7	1	2		11/11/08 15:04
15	14M09766	L08110182-02 B 826-SPE, A9	7	1	1		11/11/08 15:35
16	14M09767	L08110182-03 B 826-SPE, A9	7	1	1		11/11/08 16:06
17	14M09768	L08110182-01 B 20X 826-SPE, A9	<2	1	20		11/11/08 16:37
18	14M09769	L08110182-04 B 20X 826-SPE, A9	<2	1	20		11/11/08 17:08
19	14M09770	L08100777-08 C 5000X 826-SPE	<2	1	5000		11/11/08 17:39
20	14M09771	L08100777-07 C 5000X 826-SPE	<2	1	5000		11/11/08 18:10
21	14M09772	L08100777-09 C 50X 826-SPE	<2	1	50		11/11/08 18:41
22	14M09773	L08100867-11 B 100000X 826-LOW	<2	1	100000		11/11/08 19:12
23	14M09774	L08100887-01 B 826-LOW	<2	1	1		11/11/08 19:44
24	14M09775	SYSTEM BLANK	NA	1	1		11/11/08 20:15
25	14M09776	SYSTEM BLANK	NA	1	1		11/11/08 20:45

Approved: November 20, 2008

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WTD



Microbac Laboratories Inc.

Data Checklist

Date: 10-OCT-2008

Analyst: MDA

Analyst: NA

Method: 8260

Instrument: HPMS14

Curve Workgroup: NA

Runlog ID: 24813

Analytical Workgroups: WG284610

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	X
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	X
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MDA
Secondary Reviewer	
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
21-OCT-2008



Secondary Reviewer:

Microbac Laboratories Inc.

Data Checklist

Date: 28-OCT-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS6

Curve Workgroup: NA

Runlog ID: 25021

Analytical Workgroups: WG286204

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
31-OCT-2008

Cassio D. Augenstein

Secondary Reviewer:
02-NOV-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 03-NOV-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 25094

Analytical Workgroups: WG286725

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	NA
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
11-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
11-NOV-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 05-NOV-2008

Analyst: CAA

Analyst: FJB

Method: 8260

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 25187

Analytical Workgroups: WG286952, WG287056

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
11-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
17-NOV-2008

Leslie Bucina

Microbac Laboratories Inc.

Data Checklist

Date: 08-NOV-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS6

Curve Workgroup: NA

Runlog ID: 25219

Analytical Workgroups: WG287338

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
13-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
18-NOV-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 12-NOV-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS14

Curve Workgroup: NA

Runlog ID: 25209

Analytical Workgroups: 287340

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	WTD
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
12-NOV-2008

Secondary Reviewer:
14-NOV-2008

Microbac Laboratories Inc.

Data Checklist

Date: 09-NOV-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS6

Curve Workgroup: NA

Runlog ID: 25221

Analytical Workgroups: WG287349

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
13-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
18-NOV-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 10-NOV-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS6

Curve Workgroup: NA

Runlog ID: 25237

Analytical Workgroups: WG287385

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
13-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
18-NOV-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 10-NOV-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 25205

Analytical Workgroups: WG287402

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
12-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
12-NOV-2008

Leslie Bucina

Microbac Laboratories Inc.

Data Checklist

Date: 11-NOV-2008

Analyst: CAA

Analyst: FJB

Method: 8260

Instrument: HPMS6

Curve Workgroup: NA

Runlog ID: 25242

Analytical Workgroups: WG287486, WG287595

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
14-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
18-NOV-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 11-NOV-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 25227

Analytical Workgroups: WG287488

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
13-NOV-2008

Cassio A. Augenstein

Secondary Reviewer:
14-NOV-2008

Leslie Bucina

Microbac Laboratories Inc.

Data Checklist

Date: 11-NOV-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS14

Curve Workgroup: NA

Runlog ID: 25343

Analytical Workgroups: 287499

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	WTD
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
20-NOV-2008

Secondary Reviewer:
20-NOV-2008

Analytical Method: 8260B

AAB#: WG287338

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EW01-102908-FD	10/29/08	10/31/08	11/09/08	14	10.8	11/09/08	14	10.8	
ICT4-102908	10/29/08	10/31/08	11/09/08	14	10.8	11/09/08	14	10.8	
ICT12B-102908	10/29/08	10/31/08	11/09/08	14	10.6	11/09/08	14	10.6	
ICT14C-102908	10/29/08	10/31/08	11/09/08	14	10.7	11/09/08	14	10.7	
ICT14A-102908	10/29/08	10/31/08	11/09/08	14	10.7	11/09/08	14	10.7	
EW01-102908	10/29/08	10/31/08	11/09/08	14	10.8	11/09/08	14	10.8	
ICT14D-102908	10/29/08	10/31/08	11/08/08	14	10.5	11/08/08	14	10.5	
ICT12C-102908	10/29/08	10/31/08	11/09/08	14	10.8	11/09/08	14	10.8	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG287340

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
ICT8-102908	10/29/08	10/31/08	11/09/08	14	10.8	11/09/08	14	10.8	
ICT8-102908-FD	10/29/08	10/31/08	11/09/08	14	10.8	11/09/08	14	10.8	

* EXT = SEE PROJECT QAPP REQUIREMENTS

* ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG287349

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT1-102908	10/29/08	10/31/08	11/09/08	14	11.4	11/09/08	14	11.4	
ICT14C-102908	10/29/08	10/31/08	11/09/08	14	11.4	11/09/08	14	11.4	
EXT3-102908	10/29/08	10/31/08	11/09/08	14	11.3	11/09/08	14	11.3	
ICT12D-102908	10/29/08	10/31/08	11/09/08	14	11.4	11/09/08	14	11.4	
ICT11-102908	10/29/08	10/31/08	11/09/08	14	11.5	11/09/08	14	11.5	
ICT14D-102908	10/29/08	10/31/08	11/09/08	14	11.5	11/09/08	14	11.5	
ICT12E-102908	10/29/08	10/31/08	11/09/08	14	11.4	11/09/08	14	11.4	
ICT14A-102908	10/29/08	10/31/08	11/09/08	14	11.4	11/09/08	14	11.4	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG287385

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TRIP BLANK	10/29/08	10/31/08	11/10/08	14	12.5	11/10/08	14	12.5	
ICT14D-102908	10/29/08	10/31/08	11/10/08	14	12.1	11/10/08	14	12.1	

* EXT = SEE PROJECT QAPP REQUIREMENTS

* ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG287402

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TRIP BLANK	10/29/08	10/31/08	11/10/08	14	12.5	11/10/08	14	12.5	
ICT14B-102908	10/29/08	10/31/08	11/10/08	14	12.2	11/10/08	14	12.2	
18WW17-102908	10/29/08	10/31/08	11/10/08	14	12.5	11/10/08	14	12.5	
EXT4-102908	10/29/08	10/31/08	11/10/08	14	12.2	11/10/08	14	12.2	
ICT13F-102908	10/29/08	10/31/08	11/10/08	14	12.5	11/10/08	14	12.5	
EXT2-102908	10/29/08	10/31/08	11/10/08	14	12.2	11/10/08	14	12.2	
EXT2-102908-FD	10/29/08	10/31/08	11/10/08	14	12.2	11/10/08	14	12.2	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG287486

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT7-102908	10/29/08	10/31/08	11/11/08	14	13.0	11/11/08	14	13.0	
EXT5-102908	10/29/08	10/31/08	11/11/08	14	13.1	11/11/08	14	13.1	
EXT6-102908	10/29/08	10/31/08	11/11/08	14	13.1	11/11/08	14	13.1	
EXT4-102908	10/29/08	10/31/08	11/11/08	14	13.1	11/11/08	14	13.1	
EXT8-102908	10/29/08	10/31/08	11/11/08	14	13.1	11/11/08	14	13.1	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG287488

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT2-102908-FD	10/29/08	10/31/08	11/11/08	14	12.9	11/11/08	14	12.9	
EXT2-102908	10/29/08	10/31/08	11/11/08	14	12.9	11/11/08	14	12.9	

* EXT = SEE PROJECT QAPP REQUIREMENTS

* ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG287499

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
ICT7-102908	10/29/08	10/31/08	11/11/08	14	13.5	11/11/08	14	13.5	

* EXT = SEE PROJECT QAPP REQUIREMENTS

* ANAL = SEE PROJECT QAPP REQUIREMENTS

Login Number: L08100887
Instrument Id: HPMS6
Workgroup (AAB#): WG287349

Method: 8260
CAL ID: HPMS6 - 28-OCT-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-04	25.0	DL02	111	112	101	89.4
L08100887-07	250	DL02	107	112	100	90.8
L08100887-08	2500	DL02	110	113	102	89.7
L08100887-10	1.00	01	113	<u>122</u>	102	92.3
L08100887-12	250	DL02	105	109	99.5	92.7
L08100887-13	100	DL01	117	116	99.6	92.9
L08100887-19	100	DL01	112	113	103	93.2
L08100887-22	500	DL01	116	<u>119</u>	100	92.3
WG287349-01	1.00	01	93.4	104	101	93.2
WG287349-02	1.00	01	92.1	100	97.6	92.3
WG287349-03	1.00	01	95.4	101	99.0	92.4
WG287349-04	1.00	01	<u>129</u>	<u>121</u>	100	88.6

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08100887
Instrument Id: HPMS6
Workgroup (AAB#): WG287338

Method: 8260
CAL ID: HPMS6 - 28-OCT-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-05	100	DL01	104	110	101	94.0
L08100887-06	100	DL01	114	114	99.1	91.6
L08100887-10	5.00	DL01	112	115	100	90.9
L08100887-12	50.0	DL01	113	113	101	92.5
L08100887-13	1.00	01	104	115	101	88.7
L08100887-14	10000	DL01	114	112	99.4	92.9
L08100887-15	10000	DL01	113	113	100	92.8
L08100887-17	50.0	DL01	114	118	99.8	94.0
WG287338-01	1.00	01	98.1	104	104	94.1
WG287338-02	1.00	01	98.9	103	101	94.8
WG287338-03	1.00	01	96.2	105	101	92.5

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08100887
Instrument Id: HPMS8
Workgroup (AAB#): WG287402

Method: 8260
CAL ID: HPMS8 - 03-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-09	1.00	01	94.3	94.0	94.7	<u>83.6</u>
L08100887-11	1.00	01	112	105	102	93.1
L08100887-16	1.00	01	91.7	95.1	96.4	93.9
L08100887-20	250	DL01	114	106	103	96.6
L08100887-21	250	DL01	112	104	102	95.8
L08100887-23	500	DL01	107	101	100	95.3
L08100887-28	1.00	01	108	103	102	93.5
WG287402-01	1.00	01	105	102	101	94.4
WG287402-02	1.00	01	105	105	100	94.4
WG287402-03	1.00	01	105	105	101	93.9

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08100887
Instrument Id: HPMS14
Workgroup (AAB#): WG287340

Method: 8260
CAL ID: HPMS14 - 11-OCT-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-02	10000	DL01	<u>129</u>	105	110	102
L08100887-03	10000	DL01	<u>138</u>	111	109	101
WG287340-01	1.00	01	105	101	105	101
WG287340-02	1.00	01	103	101	97.9	102
WG287340-03	1.00	01	96.6	98.3	97.7	102

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08100887
Instrument Id: HPMS14
Workgroup (AAB#): WG287499

Method: 8260
CAL ID: HPMS14 - 11-OCT-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-01	1.00	01	<u>128</u>	104	110	102
WG287499-01	1.00	01	112	101	107	101
WG287499-02	1.00	01	110	104	98.8	101
WG287499-03	1.00	01	109	105	98.0	101
WG287499-04	1.00	02	105	101	107	101
WG287499-05	1.00	02	107	101	108	102

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08100887
Instrument Id: HPMS6
Workgroup (AAB#): WG287486

Method: 8260
CAL ID: HPMS6 - 28-OCT-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-23	50.0	DL02	102	110	100	94.8
L08100887-24	1.00	01	98.1	109	101	94.7
L08100887-25	5.00	DL02	111	112	99.3	92.8
L08100887-26	2.50	DL02	97.1	109	99.8	95.3
L08100887-27	1.00	01	102	108	99.3	92.8
WG287486-01	1.00	01	106	109	102	95.9
WG287486-02	1.00	01	105	107	98.8	94.7

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08100887
Instrument Id: HPMS8
Workgroup (AAB#): WG287488

Method: 8260
CAL ID: HPMS8 - 03-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-20	2000	DL02	111	104	102	93.2
L08100887-21	2000	DL02	113	105	102	94.3
WG287488-01	1.00	01	112	104	103	92.7
WG287488-02	1.00	01	108	105	103	93.5

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08100887
Instrument Id: HPMS6
Workgroup (AAB#): WG287385

Method: 8260
CAL ID: HPMS6 - 28-OCT-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08100887-13	500	DL02	106	112	102	92.3
L08100887-18	1.00	01	116	117	100	93.6
WG287385-01	1.00	01	108	110	104	93.0
WG287385-02	1.00	01	109	112	101	93.5
WG287385-03	1.00	01	106	111	101	96.4
WG287385-04	1.00	01	<u>134</u>	<u>123</u>	97.7	93.3

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

METHOD BLANK SUMMARY

Login Number: L08100887
Blank File ID: 14M09705
Prep Date: 11/08/08 19:33
Analyzed Date: 11/08/08 19:33
Analyst: MDA

Work Group: WG287340
Blank Sample ID: WG287340-01
Instrument ID: HPMS14
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287340-02	14M09706	11/08/08 20:04	01
LCS2	WG287340-03	14M09707	11/08/08 20:35	01
ICT8-102908	L08100887-02	14M09720	11/09/08 03:18	DL01
ICT8-102908-FD	L08100887-03	14M09721	11/09/08 03:48	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1261409
Report generated 11/26/2008 09:39



METHOD BLANK SUMMARY

Login Number: L08100887
Blank File ID: 14M09757
Prep Date: 11/11/08 10:56
Analyzed Date: 11/11/08 10:56
Analyst: WTD

Work Group: WG287499
Blank Sample ID: WG287499-01
Instrument ID: HPMS14
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287499-02	14M09758	11/11/08 11:27	01
LCS2	WG287499-03	14M09759	11/11/08 11:58	01
LCS	WG287499-04	14M09760	11/11/08 12:30	02
LCS2	WG287499-05	14M09761	11/11/08 13:01	02
ICT7-102908	L08100887-01	14M09774	11/11/08 19:44	01

Report Name: BLANK_SUMMARY
PDF File ID: 1261409
Report generated 11/26/2008 09:39



METHOD BLANK SUMMARY

Login Number: L08100887
 Blank File ID: 6M79579
 Prep Date: 11/08/08 19:10
 Analyzed Date: 11/08/08 19:10
 Analyst: MDA

Work Group: WG287338
 Blank Sample ID: WG287338-01
 Instrument ID: HPMS6
 Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287338-02	6M79580	11/08/08 19:42	01
LCS2	WG287338-03	6M79581	11/08/08 20:13	01
ICT14D-102908	L08100887-13	6M79583	11/08/08 21:18	01
ICT12B-102908	L08100887-05	6M79589	11/09/08 00:57	DL01
ICT14A-102908	L08100887-10	6M79590	11/09/08 01:29	DL01
ICT14C-102908	L08100887-12	6M79592	11/09/08 02:33	DL01
EW01-102908	L08100887-14	6M79594	11/09/08 03:37	DL01
EW01-102908-FD	L08100887-15	6M79595	11/09/08 04:09	DL01
ICT12C-102908	L08100887-06	6M79596	11/09/08 04:41	DL01
ICT4-102908	L08100887-17	6M79597	11/09/08 05:13	DL01

Report Name: BLANK_SUMMARY
 PDF File ID: 1261409
 Report generated 11/26/2008 09:39



METHOD BLANK SUMMARY

Login Number: L08100887
 Blank File ID: 6M79611
 Prep Date: 11/09/08 15:21
 Analyzed Date: 11/09/08 15:21
 Analyst: CAA

Work Group: WG287349
 Blank Sample ID: WG287349-01
 Instrument ID: HPMS6
 Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287349-02	6M79612	11/09/08 15:53	01
LCS2	WG287349-03	6M79613	11/09/08 16:25	01
ICT14A-102908	L08100887-10	6M79616	11/09/08 18:01	01
ICT14C-102908	L08100887-12	6M79617	11/09/08 18:33	DL02
ICT12D-102908	L08100887-07	6M79618	11/09/08 19:04	DL02
ICT12E-102908	L08100887-08	6M79619	11/09/08 19:36	DL02
ICT11-102908	L08100887-04	6M79620	11/09/08 20:08	DL02
EXT1-102908	L08100887-19	6M79621	11/09/08 20:40	DL01
EXT3-102908	L08100887-22	6M79622	11/09/08 21:12	DL01
ICT14D-102908	L08100887-13	6M79623	11/09/08 21:44	DL01

Report Name: BLANK_SUMMARY
 PDF File ID: 1261409
 Report generated 11/26/2008 09:39



METHOD BLANK SUMMARY

Login Number: L08100887
Blank File ID: 6M79639
Prep Date: 11/10/08 09:02
Analyzed Date: 11/10/08 09:02
Analyst: CAA

Work Group: WG287385
Blank Sample ID: WG287385-01
Instrument ID: HPMS6
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287385-02	6M79640	11/10/08 09:34	01
LCS2	WG287385-03	6M79641	11/10/08 10:06	01
ICT14D-102908	L08100887-13	6M79642	11/10/08 10:39	DL02
TRIP BLANK	L08100887-18	6M79645	11/10/08 12:15	01

Report Name: BLANK_SUMMARY
PDF File ID: 1261409
Report generated 11/26/2008 09:39



METHOD BLANK SUMMARY

Login Number: L08100887
Blank File ID: 6M79668
Prep Date: 11/11/08 09:41
Analyzed Date: 11/11/08 09:41
Analyst: CAA

Work Group: WG287486
Blank Sample ID: WG287486-01
Instrument ID: HPMS6
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287486-02	6M79669	11/11/08 10:13	01
EXT7-102908	L08100887-26	6M79676	11/11/08 13:57	DL02
EXT5-102908	L08100887-24	6M79677	11/11/08 14:29	01
EXT8-102908	L08100887-27	6M79678	11/11/08 15:02	01
EXT4-102908	L08100887-23	6M79679	11/11/08 15:34	DL02
EXT6-102908	L08100887-25	6M79680	11/11/08 16:07	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 1261409
Report generated 11/26/2008 09:39



METHOD BLANK SUMMARY

Login Number: L08100887
 Blank File ID: 8M349599
 Prep Date: 11/10/08 10:28
 Analyzed Date: 11/10/08 10:28
 Analyst: CAA

Work Group: WG287402
 Blank Sample ID: WG287402-01
 Instrument ID: HPMS8
 Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287402-02	8M349600	11/10/08 11:00	01
LCS2	WG287402-03	8M349601	11/10/08 11:32	01
TRIP BLANK	L08100887-28	8M349604	11/10/08 13:08	01
ICT14B-102908	L08100887-11	8M349605	11/10/08 13:40	01
EXT2-102908	L08100887-20	8M349610	11/10/08 16:20	DL01
EXT2-102908-FD	L08100887-21	8M349611	11/10/08 16:52	DL01
EXT4-102908	L08100887-23	8M349612	11/10/08 17:23	DL01
ICT13F-102908	L08100887-09	8M349617	11/10/08 20:03	01
18WW17-102908	L08100887-16	8M349618	11/10/08 20:35	01

Report Name: BLANK_SUMMARY
 PDF File ID: 1261409
 Report generated 11/26/2008 09:39



METHOD BLANK SUMMARY

Login Number: <u>L08100887</u>	Work Group: <u>WG287488</u>
Blank File ID: <u>8M349624</u>	Blank Sample ID: <u>WG287488-01</u>
Prep Date: <u>11/11/08 09:11</u>	Instrument ID: <u>HPMS8</u>
Analyzed Date: <u>11/11/08 09:11</u>	Method: <u>8260B</u>
Analyst: <u>CAA</u>	

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG287488-02	8M349625	11/11/08 09:43	01
EXT2-102908	L08100887-20	8M349627	11/11/08 10:15	DL02
EXT2-102908-FD	L08100887-21	8M349628	11/11/08 10:47	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 1261409
Report generated 11/26/2008 09:39



Login Number: L08100887 Prep Date: 11/08/08 19:33 Sample ID: WG287340-01
Instrument ID: HPMS14 Run Date: 11/08/08 19:33 Prep Method: 5030B
File ID: 14M09705 Analyst: MDA Method: 8260B
Workgroup (AAB#): WG287340 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS14 - 11-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	3.69	1	*
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.454	1	J
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

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Login Number: L08100887 Prep Date: 11/08/08 19:33 Sample ID: WG287340-01
Instrument ID: HPMS14 Run Date: 11/08/08 19:33 Prep Method: 5030B
File ID: 14M09705 Analyst: MDA Method: 8260B
Workgroup (AAB#): WG287340 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS14 - 11-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	101	86 - 118	PASS
1,2-Dichloroethane-d4	105	80 - 120	PASS
Toluene-d8	101	88 - 110	PASS
4-Bromofluorobenzene	105	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
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Login Number: L08100887 Prep Date: 11/11/08 10:56 Sample ID: WG287499-01
Instrument ID: HPMS14 Run Date: 11/11/08 10:56 Prep Method: 5030B
File ID: 14M09757 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG287499 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS14 - 11-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	3.15	1	*
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

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Login Number: L08100887 Prep Date: 11/11/08 10:56 Sample ID: WG287499-01
Instrument ID: HPMS14 Run Date: 11/11/08 10:56 Prep Method: 5030B
File ID: 14M09757 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG287499 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS14 - 11-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	101	86 - 118	PASS
1,2-Dichloroethane-d4	112	80 - 120	PASS
Toluene-d8	101	88 - 110	PASS
4-Bromofluorobenzene	107	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
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Login Number: L08100887 Prep Date: 11/08/08 19:10 Sample ID: WG287338-01
Instrument ID: HPMS6 Run Date: 11/08/08 19:10 Prep Method: 5030B
File ID: 6M79579 Analyst: MDA Method: 8260B
Workgroup (AAB#): WG287338 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK
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Login Number: L08100887 Prep Date: 11/08/08 19:10 Sample ID: WG287338-01
Instrument ID: HPMS6 Run Date: 11/08/08 19:10 Prep Method: 5030B
File ID: 6M79579 Analyst: MDA Method: 8260B
Workgroup (AAB#): WG287338 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	104	86 - 118	PASS
1,2-Dichloroethane-d4	98.1	80 - 120	PASS
Toluene-d8	94.1	88 - 110	PASS
4-Bromofluorobenzene	104	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1248075
26-NOV-2008 09:39



Login Number: L08100887 Prep Date: 11/09/08 15:21 Sample ID: WG287349-01
Instrument ID: HPMS6 Run Date: 11/09/08 15:21 Prep Method: 5030B
File ID: 6M79611 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287349 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1248075

26-NOV-2008 09:39



Login Number: L08100887 Prep Date: 11/09/08 15:21 Sample ID: WG287349-01
Instrument ID: HPMS6 Run Date: 11/09/08 15:21 Prep Method: 5030B
File ID: 6M79611 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287349 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.333	1	J
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	104	86 - 118	PASS
1,2-Dichloroethane-d4	93.4	80 - 120	PASS
Toluene-d8	93.2	88 - 110	PASS
4-Bromofluorobenzene	101	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 1248075

26-NOV-2008 09:39



Login Number: L08100887 Prep Date: 11/10/08 09:02 Sample ID: WG287385-01
Instrument ID: HPMS6 Run Date: 11/10/08 09:02 Prep Method: 5030B
File ID: 6M79639 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287385 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1248075

26-NOV-2008 09:39



Login Number: L08100887 Prep Date: 11/10/08 09:02 Sample ID: WG287385-01
Instrument ID: HPMS6 Run Date: 11/10/08 09:02 Prep Method: 5030B
File ID: 6M79639 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287385 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.413	1	J
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	110	86 - 118	PASS
1,2-Dichloroethane-d4	108	80 - 120	PASS
Toluene-d8	93.0	88 - 110	PASS
4-Bromofluorobenzene	104	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1248075
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Login Number: L08100887 Prep Date: 11/11/08 09:41 Sample ID: WG287486-01
Instrument ID: HPMS6 Run Date: 11/11/08 09:41 Prep Method: 5030B
File ID: 6M79668 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287486 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1248075

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Login Number: L08100887 Prep Date: 11/11/08 09:41 Sample ID: WG287486-01
Instrument ID: HPMS6 Run Date: 11/11/08 09:41 Prep Method: 5030B
File ID: 6M79668 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287486 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS6 - 28-OCT-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	109	86 - 118	PASS
1,2-Dichloroethane-d4	106	80 - 120	PASS
Toluene-d8	95.9	88 - 110	PASS
4-Bromofluorobenzene	102	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1248075
26-NOV-2008 09:39



Login Number: L08100887 Prep Date: 11/10/08 10:28 Sample ID: WG287402-01
Instrument ID: HPMS8 Run Date: 11/10/08 10:28 Prep Method: 5030B
File ID: 8M349599 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287402 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 03-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.612	1	J

Report Name: BLANK

PDF ID: 1248075

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Login Number: L08100887 Prep Date: 11/10/08 10:28 Sample ID: WG287402-01
Instrument ID: HPMS8 Run Date: 11/10/08 10:28 Prep Method: 5030B
File ID: 8M349599 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287402 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 03-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	102	86 - 118	PASS
1,2-Dichloroethane-d4	105	80 - 120	PASS
Toluene-d8	94.4	88 - 110	PASS
4-Bromofluorobenzene	101	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 1248075

26-NOV-2008 09:39



Login Number: L08100887 Prep Date: 11/11/08 09:11 Sample ID: WG287488-01
Instrument ID: HPMS8 Run Date: 11/11/08 09:11 Prep Method: 5030B
File ID: 8M349624 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287488 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 03-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.916	1	J

Report Name: BLANK

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Login Number: L08100887 Prep Date: 11/11/08 09:11 Sample ID: WG287488-01
Instrument ID: HPMS8 Run Date: 11/11/08 09:11 Prep Method: 5030B
File ID: 8M349624 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287488 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 03-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	104	86 - 118	PASS
1,2-Dichloroethane-d4	112	80 - 120	PASS
Toluene-d8	92.7	88 - 110	PASS
4-Bromofluorobenzene	103	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1248075
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Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287486-02
Instrument ID: HPMS6 Run Time: 10:13 Prep Method: 5030B
File ID: 6M79669 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287486 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD29761 Cal ID: HPMS6 - 28-OCT-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Acetone	20.0	36.9	185	40	-	142	*
Benzene	20.0	20.6	103	80	-	121	
Bromobenzene	20.0	21.5	107	80	-	120	
Bromochloromethane	20.0	24.6	123	65	-	130	
Bromodichloromethane	20.0	27.4	137	80	-	131	*
Bromoform	20.0	22.4	112	70	-	130	
Bromomethane	25.0	30.2	121	30	-	145	
2-Butanone	20.0	19.0	94.9	30	-	150	
n-Butylbenzene	20.0	21.9	109	80	-	131	
sec-Butylbenzene	20.0	21.4	107	80	-	127	
tert-Butylbenzene	20.0	20.2	101	80	-	126	
Carbon disulfide	20.0	26.1	130	58	-	138	
Carbon tetrachloride	20.0	20.0	100	65	-	140	
Chlorobenzene	20.0	21.1	106	80	-	120	
Chlorodibromomethane	20.0	23.4	117	60	-	135	
Chloroethane	25.0	31.3	125	60	-	135	
2-Chloroethyl vinyl ether	20.0	21.3	107	58	-	151	
Chloroform	20.0	23.0	115	80	-	125	
Chloromethane	25.0	33.5	134	40	-	125	*
2-Chlorotoluene	20.0	21.2	106	80	-	127	
4-Chlorotoluene	20.0	21.7	108	80	-	126	
1,2-Dibromo-3-chloropropane	20.0	22.9	114	50	-	130	
1,2-Dibromoethane	20.0	23.8	119	80	-	125	
Dibromomethane	20.0	27.2	136	75	-	125	*
1,2-Dichlorobenzene	20.0	22.0	110	80	-	125	
1,3-Dichlorobenzene	20.0	21.7	109	80	-	120	
1,4-Dichlorobenzene	20.0	20.7	104	80	-	120	
Dichlorodifluoromethane	25.0	43.7	175	50	-	133	*
1,1-Dichloroethane	20.0	20.1	100	80	-	125	
1,2-Dichloroethane	20.0	23.2	116	80	-	129	
1,1-Dichloroethene	20.0	21.4	107	80	-	132	
cis-1,2-Dichloroethene	20.0	21.7	109	70	-	125	
trans-1,2-Dichloroethene	20.0	18.5	92.5	80	-	127	
1,2-Dichloropropane	20.0	20.4	102	80	-	120	
1,3-Dichloropropane	20.0	21.3	107	80	-	120	
2,2-Dichloropropane	20.0	19.8	99.1	80	-	133	
cis-1,3-Dichloropropene	20.0	23.7	119	70	-	130	
trans-1,3-Dichloropropene	20.0	19.2	96.2	80	-	130	
1,1-Dichloropropene	20.0	18.0	90.0	75	-	130	
Ethylbenzene	20.0	21.3	107	80	-	122	
2-Hexanone	20.0	18.7	93.6	55	-	130	

LCS - Modified 03/06/2008
PDF File ID: 1249528
Report generated: 11/26/2008 09:39



Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287486-02
Instrument ID: HPMS6 Run Time: 10:13 Prep Method: 5030B
File ID: 6M79669 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287486 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD29761 Cal ID: HPMS6 - 28-OCT-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Hexachlorobutadiene	20.0	21.2	106	72	-	132	
Isopropylbenzene	20.0	17.1	85.3	80	-	122	
p-Isopropyltoluene	20.0	20.9	105	80	-	122	
4-Methyl-2-pentanone	20.0	22.3	112	64	-	140	
Methylene chloride	20.0	22.5	113	80	-	123	
Naphthalene	20.0	19.9	99.5	59	-	149	
n-Propylbenzene	20.0	18.8	93.8	80	-	129	
Styrene	20.0	18.6	93.2	80	-	123	
1,1,1,2-Tetrachloroethane	20.0	22.3	112	80	-	130	
1,1,2,2-Tetrachloroethane	20.0	21.7	108	79	-	125	
Tetrachloroethene	20.0	19.9	99.3	80	-	124	
Toluene	20.0	20.2	101	80	-	124	
1,2,3-Trichlorobenzene	20.0	18.2	91.0	55	-	140	
1,2,4-Trichlorobenzene	20.0	20.4	102	65	-	135	
1,1,1-Trichloroethane	20.0	20.7	103	80	-	134	
1,1,2-Trichloroethane	20.0	22.3	111	80	-	125	
Trichloroethene	20.0	22.1	110	80	-	122	
Trichlorofluoromethane	25.0	27.8	111	62	-	151	
1,2,3-Trichloropropane	20.0	22.8	114	75	-	125	
1,2,4-Trimethylbenzene	20.0	22.1	111	80	-	125	
1,3,5-Trimethylbenzene	20.0	19.1	95.3	80	-	127	
Vinyl acetate	20.0	15.8	79.1	10	-	150	
Vinyl chloride	25.0	36.4	146	65	-	140	*
o-Xylene	20.0	21.7	108	80	-	122	
m-,p-Xylene	40.0	44.2	111	80	-	122	

Surrogates	% Recovery	Surrogate Limits			Qualifier
Dibromofluoromethane	107	86	-	118	PASS
1,2-Dichloroethane-d4	105	80	-	120	PASS
Toluene-d8	94.7	88	-	110	PASS
4-Bromofluorobenzene	98.8	86	-	115	PASS

* FAILS %REC LIMIT

Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287488-02
Instrument ID: HPMS8 Run Time: 09:43 Prep Method: 5030B
File ID: 8M349625 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287488 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD29761 Cal ID: HPMS8 - 03-NOV-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Acetone	20.0	34.6	173	40	-	142	*
Benzene	20.0	21.1	105	80	-	121	
Bromobenzene	20.0	21.4	107	80	-	120	
Bromochloromethane	20.0	22.9	114	65	-	130	
Bromodichloromethane	20.0	25.4	127	80	-	131	
Bromoform	20.0	23.0	115	70	-	130	
Bromomethane	25.0	28.9	116	30	-	145	
2-Butanone	20.0	21.6	108	30	-	150	
n-Butylbenzene	20.0	19.5	97.3	80	-	131	
sec-Butylbenzene	20.0	20.0	100	80	-	127	
tert-Butylbenzene	20.0	20.1	100	80	-	126	
Carbon disulfide	20.0	23.3	117	58	-	138	
Carbon tetrachloride	20.0	29.1	145	65	-	140	*
Chlorobenzene	20.0	20.6	103	80	-	120	
Chlorodibromomethane	20.0	23.6	118	60	-	135	
Chloroethane	25.0	25.5	102	60	-	135	
2-Chloroethyl vinyl ether	20.0	21.3	106	58	-	151	
Chloroform	20.0	25.3	127	80	-	125	*
Chloromethane	25.0	38.8	155	40	-	125	*
2-Chlorotoluene	20.0	20.6	103	80	-	127	
4-Chlorotoluene	20.0	21.5	108	80	-	126	
1,2-Dibromo-3-chloropropane	20.0	18.5	92.5	50	-	130	
1,2-Dibromoethane	20.0	22.2	111	80	-	125	
Dibromomethane	20.0	24.5	122	75	-	125	
1,2-Dichlorobenzene	20.0	19.4	97.2	80	-	125	
1,3-Dichlorobenzene	20.0	19.8	98.8	80	-	120	
1,4-Dichlorobenzene	20.0	19.0	95.2	80	-	120	
Dichlorodifluoromethane	25.0	43.2	173	50	-	133	*
1,1-Dichloroethane	20.0	22.5	113	80	-	125	
1,2-Dichloroethane	20.0	26.8	134	80	-	129	*
1,1-Dichloroethene	20.0	23.9	120	80	-	132	
cis-1,2-Dichloroethene	20.0	23.2	116	70	-	125	
trans-1,2-Dichloroethene	20.0	22.4	112	80	-	127	
1,2-Dichloropropane	20.0	20.3	101	80	-	120	
1,3-Dichloropropane	20.0	20.5	102	80	-	120	
2,2-Dichloropropane	20.0	27.7	138	80	-	133	*
cis-1,3-Dichloropropene	20.0	23.5	118	70	-	130	
trans-1,3-Dichloropropene	20.0	21.1	105	80	-	130	
1,1-Dichloropropene	20.0	23.5	118	75	-	130	
Ethylbenzene	20.0	21.6	108	80	-	122	
2-Hexanone	20.0	17.8	89.1	55	-	130	

LCS - Modified 03/06/2008
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Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287488-02
Instrument ID: HPMS8 Run Time: 09:43 Prep Method: 5030B
File ID: 8M349625 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG287488 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD29761 Cal ID: HPMS8 - 03-NOV-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Hexachlorobutadiene	20.0	19.4	96.8	72	-	132	
Isopropylbenzene	20.0	20.0	100	80	-	122	
p-Isopropyltoluene	20.0	20.4	102	80	-	122	
4-Methyl-2-pentanone	20.0	19.1	95.5	64	-	140	
Methylene chloride	20.0	20.0	99.8	80	-	123	
Naphthalene	20.0	16.2	81.0	59	-	149	
n-Propylbenzene	20.0	20.5	103	80	-	129	
Styrene	20.0	22.1	110	80	-	123	
1,1,1,2-Tetrachloroethane	20.0	23.4	117	80	-	130	
1,1,2,2-Tetrachloroethane	20.0	17.3	86.6	79	-	125	
Tetrachloroethene	20.0	22.0	110	80	-	124	
Toluene	20.0	20.4	102	80	-	124	
1,2,3-Trichlorobenzene	20.0	15.3	76.5	55	-	140	
1,2,4-Trichlorobenzene	20.0	16.6	82.8	65	-	135	
1,1,1-Trichloroethane	20.0	28.0	140	80	-	134	*
1,1,2-Trichloroethane	20.0	21.2	106	80	-	125	
Trichloroethene	20.0	23.4	117	80	-	122	
Trichlorofluoromethane	25.0	35.7	143	62	-	151	
1,2,3-Trichloropropane	20.0	21.5	108	75	-	125	
1,2,4-Trimethylbenzene	20.0	21.4	107	80	-	125	
1,3,5-Trimethylbenzene	20.0	21.8	109	80	-	127	
Vinyl acetate	20.0	23.8	119	10	-	150	
Vinyl chloride	25.0	34.7	139	65	-	140	
o-Xylene	20.0	21.5	108	80	-	122	
m-,p-Xylene	40.0	42.7	107	80	-	122	

Surrogates	% Recovery	Surrogate Limits			Qualifier
Dibromofluoromethane	105	86	-	118	PASS
1,2-Dichloroethane-d4	108	80	-	120	PASS
Toluene-d8	93.5	88	-	110	PASS
4-Bromofluorobenzene	103	86	-	115	PASS

* FAILS %REC LIMIT

Login Number: L08100887 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS14 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287499 Units: ug/L
QC Key: STD Lot #: STD29761

Sample ID: WG287499-02 LCS File ID: 14M09758 Run Date: 11/11/2008 11:27
Sample ID: WG287499-03 LCS2 File ID: 14M09759 Run Date: 11/11/2008 11:58

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	32.5	163	20.0	31.6	158	2.89	40 - 142	20	*
Benzene	20.0	21.5	107	20.0	21.9	109	1.96	80 - 121	20	
Bromobenzene	20.0	19.7	98.7	20.0	20.1	101	1.98	80 - 120	20	
Bromochloromethane	20.0	21.7	108	20.0	22.9	115	5.66	65 - 130	20	
Bromodichloromethane	20.0	24.7	124	20.0	25.2	126	2.07	80 - 131	20	
Bromoform	20.0	21.7	109	20.0	23.1	116	6.21	70 - 130	20	
Bromomethane	25.0	31.3	125	25.0	30.3	121	3.24	30 - 145	20	
2-Butanone	20.0	18.4	91.8	20.0	19.7	98.7	7.31	30 - 150	20	
n-Butylbenzene	20.0	23.4	117	20.0	22.9	114	2.21	80 - 131	20	
sec-Butylbenzene	20.0	21.8	109	20.0	22.0	110	0.901	80 - 127	20	
tert-Butylbenzene	20.0	21.1	106	20.0	21.4	107	1.14	80 - 126	20	
Carbon disulfide	20.0	20.2	101	20.0	20.5	103	1.80	58 - 138	20	
Carbon tetrachloride	20.0	22.6	113	20.0	23.4	117	3.26	65 - 140	20	
Chlorobenzene	20.0	22.1	111	20.0	22.4	112	1.28	80 - 120	20	
Chlorodibromomethane	20.0	22.7	114	20.0	23.8	119	4.52	60 - 135	20	
Chloroethane	25.0	28.4	113	25.0	28.5	114	0.351	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	37.8	189	20.0	41.3	206	8.80	58 - 151	20	*
Chloroform	20.0	25.5	128	20.0	25.9	130	1.73	80 - 125	20	*
Chloromethane	25.0	28.6	114	25.0	30.5	122	6.63	40 - 125	20	
2-Chlorotoluene	20.0	22.6	113	20.0	22.6	113	0.231	80 - 127	20	
4-Chlorotoluene	20.0	22.5	112	20.0	22.6	113	0.571	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	21.0	105	20.0	21.5	107	2.07	50 - 130	20	
1,2-Dibromoethane	20.0	21.4	107	20.0	22.7	113	5.95	80 - 125	20	
Dibromomethane	20.0	22.2	111	20.0	22.5	112	1.29	75 - 125	20	
1,2-Dichlorobenzene	20.0	20.6	103	20.0	21.0	105	1.72	80 - 125	20	
1,3-Dichlorobenzene	20.0	20.9	104	20.0	21.0	105	0.490	80 - 120	20	
1,4-Dichlorobenzene	20.0	20.2	101	20.0	20.5	103	1.36	80 - 120	20	
Dichlorodifluoromethane	25.0	37.8	151	25.0	38.5	154	2.00	50 - 133	20	*
1,1-Dichloroethane	20.0	25.9	130	20.0	25.8	129	0.365	80 - 125	20	*
1,2-Dichloroethane	20.0	25.3	127	20.0	25.6	128	1.03	80 - 129	20	
1,1-Dichloroethene	20.0	23.0	115	20.0	23.1	116	0.560	80 - 132	20	
cis-1,2-Dichloroethene	20.0	22.6	113	20.0	23.6	118	4.17	70 - 125	20	
trans-1,2-Dichloroethene	20.0	22.2	111	20.0	22.9	114	2.95	80 - 127	20	
1,2-Dichloropropane	20.0	22.1	110	20.0	22.6	113	2.26	80 - 120	20	
1,3-Dichloropropane	20.0	22.1	111	20.0	23.1	116	4.56	80 - 120	20	
2,2-Dichloropropane	20.0	22.6	113	20.0	23.4	117	3.60	80 - 133	20	
cis-1,3-Dichloropropene	20.0	21.9	110	20.0	22.4	112	2.25	70 - 130	20	
trans-1,3-Dichloropropene	20.0	20.9	104	20.0	21.7	108	3.75	80 - 130	20	
1,1-Dichloropropene	20.0	22.1	110	20.0	23.1	116	4.74	75 - 130	20	
Ethylbenzene	20.0	22.8	114	20.0	23.0	115	0.547	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Login Number: L08100887 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS14 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287499 Units: ug/L
QC Key: STD Lot #: STD29761

Sample ID: WG287499-02 LCS File ID: 14M09758 Run Date: 11/11/2008 11:27
Sample ID: WG287499-03 LCS2 File ID: 14M09759 Run Date: 11/11/2008 11:58

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	19.5	97.4	20.0	20.6	103	5.53	55 - 130	20	
Hexachlorobutadiene	20.0	20.5	102	20.0	21.7	109	5.94	72 - 132	20	
Isopropylbenzene	20.0	20.2	101	20.0	20.4	102	0.761	80 - 122	20	
p-Isopropyltoluene	20.0	21.5	107	20.0	21.5	108	0.139	80 - 122	20	
4-Methyl-2-pentanone	20.0	18.6	92.8	20.0	19.5	97.7	5.06	64 - 140	20	
Methylene chloride	20.0	20.1	100	20.0	20.8	104	3.46	80 - 123	20	
Naphthalene	20.0	25.5	127	20.0	26.6	133	4.35	59 - 149	20	
n-Propylbenzene	20.0	22.5	112	20.0	22.5	113	0.328	80 - 129	20	
Styrene	20.0	21.6	108	20.0	22.2	111	2.77	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	24.3	121	20.0	24.6	123	1.24	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	20.9	104	20.0	21.6	108	3.46	79 - 125	20	
Tetrachloroethene	20.0	21.3	107	20.0	21.7	109	1.71	80 - 124	20	
Toluene	20.0	20.9	104	20.0	21.1	105	0.959	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	23.3	117	20.0	23.8	119	1.79	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	23.2	116	20.0	23.6	118	1.56	65 - 135	20	
1,1,1-Trichloroethane	20.0	24.7	124	20.0	25.3	126	2.31	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.7	109	20.0	22.9	114	5.29	80 - 125	20	
Trichloroethene	20.0	20.5	103	20.0	21.1	105	2.71	80 - 122	20	
Trichlorofluoromethane	25.0	28.2	113	25.0	28.2	113	0.0550	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.3	107	20.0	21.8	109	2.44	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	24.3	121	20.0	23.7	118	2.36	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	23.8	119	20.0	23.7	119	0.214	80 - 127	20	
Vinyl acetate	20.0	26.9	134	20.0	27.9	140	3.87	10 - 150	20	
Vinyl chloride	25.0	31.5	126	25.0	30.5	122	3.13	65 - 140	20	
o-Xylene	20.0	22.5	112	20.0	22.8	114	1.46	80 - 122	20	
m-, p-Xylene	40.0	46.4	116	40.0	47.3	118	1.82	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	110	109	80 - 120	PASS
Dibromofluoromethane	104	105	86 - 118	PASS
4-Bromofluorobenzene	98.8	98.0	86 - 115	PASS
Toluene-d8	101	101	88 - 110	PASS

* FAILS %REC LIMIT
FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1248076
Report generated: 11/26/2008 09:39



Login Number: L08100887 Analyst: MDA Prep Method: 5030B
Instrument ID: HPMS14 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287340 Units: ug/L
QC Key: STD Lot #: STD29700

Sample ID: WG287340-02 LCS File ID: 14M09706 Run Date: 11/08/2008 20:04
Sample ID: WG287340-03 LCS2 File ID: 14M09707 Run Date: 11/08/2008 20:35

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	19.1	95.4	20.0	17.5	87.4	8.75	40 - 142	20	
Benzene	20.0	20.9	104	20.0	21.4	107	2.57	80 - 121	20	
Bromobenzene	20.0	20.5	103	20.0	20.5	102	0.103	80 - 120	20	
Bromochloromethane	20.0	21.7	108	20.0	22.0	110	1.68	65 - 130	20	
Bromodichloromethane	20.0	23.7	118	20.0	23.4	117	1.08	80 - 131	20	
Bromoform	20.0	21.7	109	20.0	21.5	107	1.20	70 - 130	20	
Bromomethane	20.0	20.2	101	20.0	23.4	117	15.0	30 - 145	20	
2-Butanone	20.0	17.4	87.1	20.0	16.5	82.7	5.23	30 - 150	20	
n-Butylbenzene	20.0	21.8	109	20.0	23.8	119	8.45	80 - 131	20	
sec-Butylbenzene	20.0	21.5	107	20.0	23.0	115	6.58	80 - 127	20	
tert-Butylbenzene	20.0	21.4	107	20.0	22.6	113	5.72	80 - 126	20	
Carbon disulfide	20.0	5.79	29.0	20.0	6.08	30.4	4.79	58 - 138	20	*
Carbon tetrachloride	20.0	22.0	110	20.0	22.7	113	3.02	65 - 140	20	
Chlorobenzene	20.0	21.9	110	20.0	22.4	112	2.26	80 - 120	20	
Chlorodibromomethane	20.0	23.1	116	20.0	22.8	114	1.54	60 - 135	20	
Chloroethane	20.0	20.3	102	20.0	20.7	103	1.90	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	40.8	204	20.0	41.8	209	2.40	58 - 151	20	*
Chloroform	20.0	23.4	117	20.0	23.4	117	0.0854	80 - 125	20	
Chloromethane	20.0	17.7	88.6	20.0	18.7	93.4	5.24	40 - 125	20	
2-Chlorotoluene	20.0	21.6	108	20.0	22.1	111	2.64	80 - 127	20	
4-Chlorotoluene	20.0	22.9	115	20.0	23.6	118	3.01	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	20.6	103	20.0	20.0	100	3.12	50 - 130	20	
1,2-Dibromoethane	20.0	21.4	107	20.0	21.6	108	0.604	80 - 125	20	
Dibromomethane	20.0	22.4	112	20.0	21.8	109	2.60	75 - 125	20	
1,2-Dichlorobenzene	20.0	20.9	104	20.0	21.2	106	1.53	80 - 125	20	
1,3-Dichlorobenzene	20.0	21.1	105	20.0	21.8	109	3.32	80 - 120	20	
1,4-Dichlorobenzene	20.0	20.3	102	20.0	20.9	104	2.70	80 - 120	20	
Dichlorodifluoromethane	20.0	25.4	127	20.0	26.2	131	3.00	50 - 133	20	
1,1-Dichloroethane	20.0	22.8	114	20.0	23.0	115	0.524	80 - 125	20	
1,2-Dichloroethane	20.0	23.5	118	20.0	22.6	113	3.92	80 - 129	20	
1,1-Dichloroethene	20.0	20.6	103	20.0	21.3	106	3.16	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.9	110	20.0	22.1	110	0.680	70 - 125	20	
trans-1,2-Dichloroethene	20.0	21.2	106	20.0	21.3	106	0.383	80 - 127	20	
1,2-Dichloropropane	20.0	20.9	105	20.0	21.1	105	0.565	80 - 120	20	
1,3-Dichloropropane	20.0	21.7	109	20.0	21.8	109	0.466	80 - 120	20	
2,2-Dichloropropane	20.0	21.6	108	20.0	22.0	110	1.45	80 - 133	20	
cis-1,3-Dichloropropene	20.0	20.5	103	20.0	20.9	105	1.95	70 - 130	20	
trans-1,3-Dichloropropene	20.0	19.7	98.5	20.0	20.2	101	2.39	80 - 130	20	
1,1-Dichloropropene	20.0	21.7	109	20.0	22.6	113	3.83	75 - 130	20	
Ethylbenzene	20.0	22.3	111	20.0	23.2	116	3.97	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Login Number: L08100887 Analyst: MDA Prep Method: 5030B
Instrument ID: HPMS14 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287340 Units: ug/L
QC Key: STD Lot #: STD29700

Sample ID: WG287340-02 LCS File ID: 14M09706 Run Date: 11/08/2008 20:04
Sample ID: WG287340-03 LCS2 File ID: 14M09707 Run Date: 11/08/2008 20:35

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	22.6	113	20.0	21.4	107	5.30	55 - 130	20	
Hexachlorobutadiene	20.0	21.4	107	20.0	23.2	116	8.17	72 - 132	20	
Isopropylbenzene	20.0	19.9	99.4	20.0	20.8	104	4.57	80 - 122	20	
p-Isopropyltoluene	20.0	21.2	106	20.0	22.6	113	6.34	80 - 122	20	
4-Methyl-2-pentanone	20.0	20.4	102	20.0	19.9	99.6	2.21	64 - 140	20	
Methylene chloride	20.0	19.3	96.3	20.0	18.8	94.2	2.15	80 - 123	20	
Naphthalene	20.0	24.3	122	20.0	25.4	127	4.25	59 - 149	20	
n-Propylbenzene	20.0	22.0	110	20.0	23.4	117	6.32	80 - 129	20	
Styrene	20.0	21.5	108	20.0	22.1	111	2.78	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	23.9	120	20.0	24.1	121	0.724	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	20.6	103	20.0	20.1	101	2.58	79 - 125	20	
Tetrachloroethene	20.0	22.1	111	20.0	23.2	116	4.62	80 - 124	20	
Toluene	20.0	20.9	104	20.0	21.6	108	3.29	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	22.6	113	20.0	23.4	117	3.47	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	22.4	112	20.0	23.4	117	4.37	65 - 135	20	
1,1,1-Trichloroethane	20.0	23.9	120	20.0	24.2	121	1.24	80 - 134	20	
1,1,2-Trichloroethane	20.0	22.4	112	20.0	22.0	110	1.88	80 - 125	20	
Trichloroethene	20.0	21.1	106	20.0	21.6	108	2.42	80 - 122	20	
Trichlorofluoromethane	20.0	21.5	108	20.0	22.3	112	3.74	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.5	107	20.0	20.8	104	3.45	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	23.1	116	20.0	24.3	122	5.00	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	23.2	116	20.0	24.6	123	6.04	80 - 127	20	
Vinyl acetate	20.0	19.1	95.6	20.0	18.9	94.6	0.989	10 - 150	20	
Vinyl chloride	20.0	24.9	124	20.0	25.5	128	2.60	65 - 140	20	
o-Xylene	20.0	22.0	110	20.0	23.2	116	5.10	80 - 122	20	
m-, p-Xylene	40.0	45.7	114	40.0	47.6	119	4.05	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	103	96.6	80 - 120	PASS
Dibromofluoromethane	101	98.3	86 - 118	PASS
4-Bromofluorobenzene	97.9	97.7	86 - 115	PASS
Toluene-d8	102	102	88 - 110	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1248076
Report generated: 11/26/2008 09:39



Login Number: L08100887 Analyst: MDA Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287338 Units: ug/L
QC Key: STD Lot #: STD29700

Sample ID: WG287338-02 LCS File ID: 6M79580 Run Date: 11/08/2008 19:42
Sample ID: WG287338-03 LCS2 File ID: 6M79581 Run Date: 11/08/2008 20:13

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	18.3	91.6	20.0	19.4	96.9	5.68	40 - 142	20	
Benzene	20.0	20.8	104	20.0	19.9	99.4	4.37	80 - 121	20	
Bromobenzene	20.0	20.5	103	20.0	20.5	103	0.0575	80 - 120	20	
Bromochloromethane	20.0	23.4	117	20.0	23.5	117	0.155	65 - 130	20	
Bromodichloromethane	20.0	25.6	128	20.0	25.5	127	0.594	80 - 131	20	
Bromoform	20.0	20.8	104	20.0	20.1	100	3.54	70 - 130	20	
Bromomethane	20.0	18.6	93.2	20.0	20.1	101	7.56	30 - 145	20	
2-Butanone	20.0	14.4	71.8	20.0	14.5	72.5	0.914	30 - 150	20	
n-Butylbenzene	20.0	21.5	108	20.0	21.7	109	0.934	80 - 131	20	
sec-Butylbenzene	20.0	21.2	106	20.0	21.3	106	0.316	80 - 127	20	
tert-Butylbenzene	20.0	20.0	100	20.0	20.0	99.8	0.413	80 - 126	20	
Carbon disulfide	20.0	6.23	31.2	20.0	6.37	31.9	2.23	58 - 138	20	*
Carbon tetrachloride	20.0	19.8	99.0	20.0	17.9	89.5	10.2	65 - 140	20	
Chlorobenzene	20.0	20.9	105	20.0	20.5	102	2.33	80 - 120	20	
Chlorodibromomethane	20.0	21.4	107	20.0	21.3	106	0.378	60 - 135	20	
Chloroethane	20.0	24.1	120	20.0	26.1	130	7.93	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	22.9	115	20.0	23.6	118	3.14	58 - 151	20	
Chloroform	20.0	22.1	111	20.0	20.7	103	6.82	80 - 125	20	
Chloromethane	20.0	19.9	99.4	20.0	20.9	105	5.10	40 - 125	20	
2-Chlorotoluene	20.0	20.7	103	20.0	20.8	104	0.360	80 - 127	20	
4-Chlorotoluene	20.0	21.4	107	20.0	21.3	107	0.563	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	19.5	97.5	20.0	19.1	95.6	1.99	50 - 130	20	
1,2-Dibromoethane	20.0	22.8	114	20.0	22.3	111	2.10	80 - 125	20	
Dibromomethane	20.0	25.4	127	20.0	26.0	130	2.14	75 - 125	20	*
1,2-Dichlorobenzene	20.0	21.5	108	20.0	21.6	108	0.213	80 - 125	20	
1,3-Dichlorobenzene	20.0	21.3	106	20.0	21.4	107	0.513	80 - 120	20	
1,4-Dichlorobenzene	20.0	20.1	100	20.0	20.1	101	0.182	80 - 120	20	
Dichlorodifluoromethane	20.0	30.7	154	20.0	30.4	152	0.970	50 - 133	20	*
1,1-Dichloroethane	20.0	19.9	99.4	20.0	19.2	96.1	3.33	80 - 125	20	
1,2-Dichloroethane	20.0	21.7	108	20.0	21.1	106	2.60	80 - 129	20	
1,1-Dichloroethene	20.0	20.6	103	20.0	19.5	97.7	5.34	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.8	109	20.0	21.4	107	1.77	70 - 125	20	
trans-1,2-Dichloroethene	20.0	19.3	96.3	20.0	18.5	92.4	4.12	80 - 127	20	
1,2-Dichloropropane	20.0	20.3	101	20.0	19.9	99.6	1.78	80 - 120	20	
1,3-Dichloropropane	20.0	21.3	106	20.0	20.6	103	3.07	80 - 120	20	
2,2-Dichloropropane	20.0	19.5	97.6	20.0	18.3	91.7	6.28	80 - 133	20	
cis-1,3-Dichloropropene	20.0	22.7	114	20.0	22.7	114	0.0875	70 - 130	20	
trans-1,3-Dichloropropene	20.0	19.3	96.3	20.0	18.3	91.3	5.34	80 - 130	20	
1,1-Dichloropropene	20.0	18.7	93.6	20.0	17.8	89.1	4.87	75 - 130	20	
Ethylbenzene	20.0	21.4	107	20.0	21.1	105	1.48	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1248076
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Login Number: L08100887 Analyst: MDA Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287338 Units: ug/L
QC Key: STD Lot #: STD29700

Sample ID: WG287338-02 LCS File ID: 6M79580 Run Date: 11/08/2008 19:42
Sample ID: WG287338-03 LCS2 File ID: 6M79581 Run Date: 11/08/2008 20:13

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	20.3	102	20.0	19.9	99.3	2.29	55 - 130	20	
Hexachlorobutadiene	20.0	20.5	102	20.0	20.9	104	2.08	72 - 132	20	
Isopropylbenzene	20.0	17.0	85.1	20.0	16.8	84.1	1.15	80 - 122	20	
p-Isopropyltoluene	20.0	21.2	106	20.0	21.1	106	0.189	80 - 122	20	
4-Methyl-2-pentanone	20.0	23.7	118	20.0	25.9	130	9.01	64 - 140	20	
Methylene chloride	20.0	20.7	104	20.0	21.3	107	2.79	80 - 123	20	
Naphthalene	20.0	18.4	92.2	20.0	19.2	96.0	4.02	59 - 149	20	
n-Propylbenzene	20.0	18.8	93.9	20.0	18.8	93.8	0.118	80 - 129	20	
Styrene	20.0	18.9	94.6	20.0	18.5	92.3	2.45	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	21.5	107	20.0	20.7	104	3.67	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	19.8	99.0	20.0	20.7	104	4.58	79 - 125	20	
Tetrachloroethene	20.0	20.5	103	20.0	19.4	97.0	5.59	80 - 124	20	
Toluene	20.0	20.8	104	20.0	19.6	98.2	5.79	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	16.7	83.6	20.0	17.2	85.8	2.60	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	19.5	97.6	20.0	19.6	97.8	0.190	65 - 135	20	
1,1,1-Trichloroethane	20.0	20.3	101	20.0	19.1	95.4	6.12	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.7	109	20.0	21.3	107	1.73	80 - 125	20	
Trichloroethene	20.0	22.0	110	20.0	21.7	109	1.31	80 - 122	20	
Trichlorofluoromethane	20.0	22.1	110	20.0	21.0	105	5.09	62 - 151	20	
1,2,3-Trichloropropane	20.0	20.9	105	20.0	20.9	104	0.197	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	22.0	110	20.0	22.1	111	0.491	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	19.1	95.5	20.0	18.9	94.4	1.15	80 - 127	20	
Vinyl acetate	20.0	12.2	61.2	20.0	12.8	64.2	4.67	10 - 150	20	
Vinyl chloride	20.0	30.6	153	20.0	30.7	153	0.350	65 - 140	20	*
o-Xylene	20.0	22.0	110	20.0	21.2	106	3.69	80 - 122	20	
m-, p-Xylene	40.0	44.5	111	40.0	44.0	110	1.11	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	98.9	96.2	80 - 120	PASS
Dibromofluoromethane	103	105	86 - 118	PASS
4-Bromofluorobenzene	101	101	86 - 115	PASS
Toluene-d8	94.8	92.5	88 - 110	PASS

* FAILS %REC LIMIT
FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1248076
Report generated: 11/26/2008 09:39



Login Number: L08100887 Analyst: CAA Prep Method: 5030B
Instrument ID: HPMS8 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287402 Units: ug/L
QC Key: STD Lot #: STD29749

Sample ID: WG287402-02 LCS File ID: 8M349600 Run Date: 11/10/2008 11:00
Sample ID: WG287402-03 LCS2 File ID: 8M349601 Run Date: 11/10/2008 11:32

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	29.5	148	20.0	29.5	147	0.110	40 - 142	20	*
Benzene	20.0	19.0	94.9	20.0	18.7	93.4	1.52	80 - 121	20	
Bromobenzene	20.0	19.0	95.1	20.0	19.4	96.9	1.88	80 - 120	20	
Bromochloromethane	20.0	21.6	108	20.0	21.4	107	1.10	65 - 130	20	
Bromodichloromethane	20.0	22.8	114	20.0	22.3	112	2.08	80 - 131	20	
Bromoform	20.0	20.2	101	20.0	20.7	103	2.30	70 - 130	20	
Bromomethane	20.0	19.0	95.0	20.0	18.6	93.2	1.97	30 - 145	20	
2-Butanone	20.0	20.1	100	20.0	20.8	104	3.72	30 - 150	20	
n-Butylbenzene	20.0	17.0	85.1	20.0	17.1	85.3	0.241	80 - 131	20	
sec-Butylbenzene	20.0	17.9	89.3	20.0	17.7	88.3	1.18	80 - 127	20	
tert-Butylbenzene	20.0	18.1	90.6	20.0	18.2	91.0	0.501	80 - 126	20	
Carbon disulfide	20.0	19.5	97.3	20.0	19.5	97.3	0.0087	58 - 138	20	
Carbon tetrachloride	20.0	24.6	123	20.0	23.6	118	4.26	65 - 140	20	
Chlorobenzene	20.0	19.3	96.3	20.0	18.9	94.4	2.08	80 - 120	20	
Chlorodibromomethane	20.0	21.4	107	20.0	21.4	107	0.303	60 - 135	20	
Chloroethane	20.0	18.3	91.5	20.0	18.4	92.0	0.549	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	20.5	102	20.0	20.7	104	1.31	58 - 151	20	
Chloroform	20.0	22.4	112	20.0	22.1	111	1.09	80 - 125	20	
Chloromethane	20.0	20.5	103	20.0	19.3	96.7	5.99	40 - 125	20	
2-Chlorotoluene	20.0	18.9	94.4	20.0	19.3	96.3	2.06	80 - 127	20	
4-Chlorotoluene	20.0	19.0	95.0	20.0	18.3	91.4	3.90	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	16.7	83.7	20.0	17.2	86.1	2.78	50 - 130	20	
1,2-Dibromoethane	20.0	20.4	102	20.0	20.2	101	0.670	80 - 125	20	
Dibromomethane	20.0	21.5	107	20.0	21.6	108	0.743	75 - 125	20	
1,2-Dichlorobenzene	20.0	18.0	90.0	20.0	18.4	91.8	1.97	80 - 125	20	
1,3-Dichlorobenzene	20.0	18.0	90.1	20.0	18.0	90.0	0.168	80 - 120	20	
1,4-Dichlorobenzene	20.0	17.4	86.9	20.0	17.5	87.7	0.913	80 - 120	20	
Dichlorodifluoromethane	20.0	24.7	123	20.0	24.0	120	2.69	50 - 133	20	
1,1-Dichloroethane	20.0	20.0	99.8	20.0	19.9	99.6	0.220	80 - 125	20	
1,2-Dichloroethane	20.0	22.5	113	20.0	22.5	113	0.0576	80 - 129	20	
1,1-Dichloroethene	20.0	20.2	101	20.0	19.7	98.3	2.56	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.1	105	20.0	20.9	105	0.777	70 - 125	20	
trans-1,2-Dichloroethene	20.0	19.6	98.1	20.0	19.2	96.0	2.23	80 - 127	20	
1,2-Dichloropropane	20.0	18.1	90.5	20.0	18.0	89.9	0.644	80 - 120	20	
1,3-Dichloropropane	20.0	18.9	94.4	20.0	18.9	94.4	0.0246	80 - 120	20	
2,2-Dichloropropane	20.0	23.5	118	20.0	22.8	114	3.42	80 - 133	20	
cis-1,3-Dichloropropene	20.0	21.0	105	20.0	20.8	104	1.05	70 - 130	20	
trans-1,3-Dichloropropene	20.0	18.8	94.0	20.0	18.5	92.5	1.63	80 - 130	20	
1,1-Dichloropropene	20.0	20.4	102	20.0	19.9	99.7	2.33	75 - 130	20	
Ethylbenzene	20.0	19.1	95.3	20.0	18.8	94.1	1.29	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Login Number: L08100887 Analyst: CAA Prep Method: 5030B
Instrument ID: HPMS8 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287402 Units: ug/L
QC Key: STD Lot #: STD29749

Sample ID: WG287402-02 LCS File ID: 8M349600 Run Date: 11/10/2008 11:00
Sample ID: WG287402-03 LCS2 File ID: 8M349601 Run Date: 11/10/2008 11:32

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	16.6	83.1	20.0	17.7	88.7	6.58	55 - 130	20	
Hexachlorobutadiene	20.0	16.6	83.1	20.0	17.8	88.8	6.55	72 - 132	20	
Isopropylbenzene	20.0	18.0	90.0	20.0	17.8	88.9	1.22	80 - 122	20	
p-Isopropyltoluene	20.0	18.4	92.2	20.0	18.6	93.2	1.07	80 - 122	20	
4-Methyl-2-pentanone	20.0	18.9	94.3	20.0	19.2	95.8	1.53	64 - 140	20	
Methylene chloride	20.0	18.0	89.9	20.0	18.3	91.4	1.59	80 - 123	20	
Naphthalene	20.0	15.4	76.8	20.0	16.3	81.3	5.69	59 - 149	20	
n-Propylbenzene	20.0	18.5	92.3	20.0	18.3	91.4	1.01	80 - 129	20	
Styrene	20.0	20.4	102	20.0	20.1	101	1.18	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	21.1	105	20.0	20.8	104	1.41	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	16.3	81.3	20.0	17.1	85.5	5.10	79 - 125	20	
Tetrachloroethene	20.0	20.0	100	20.0	19.6	98.0	2.21	80 - 124	20	
Toluene	20.0	18.8	94.2	20.0	18.3	91.4	3.05	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	14.7	73.5	20.0	15.3	76.6	4.25	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	15.8	79.2	20.0	15.8	79.0	0.247	65 - 135	20	
1,1,1-Trichloroethane	20.0	24.0	120	20.0	23.1	115	4.05	80 - 134	20	
1,1,2-Trichloroethane	20.0	19.9	99.6	20.0	19.7	98.3	1.29	80 - 125	20	
Trichloroethene	20.0	21.0	105	20.0	20.3	102	3.15	80 - 122	20	
Trichlorofluoromethane	20.0	24.4	122	20.0	23.8	119	2.38	62 - 151	20	
1,2,3-Trichloropropane	20.0	19.5	97.3	20.0	19.7	98.5	1.16	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	19.2	96.2	20.0	19.2	96.2	0.0114	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	19.6	97.9	20.0	19.6	98.0	0.128	80 - 127	20	
Vinyl acetate	20.0	23.4	117	20.0	24.5	123	4.57	10 - 150	20	
Vinyl chloride	20.0	26.5	132	20.0	25.5	127	3.81	65 - 140	20	
o-Xylene	20.0	19.5	97.6	20.0	19.1	95.5	2.21	80 - 122	20	
m-, p-Xylene	40.0	39.3	98.2	40.0	38.5	96.4	1.90	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	105	105	80 - 120	PASS
Dibromofluoromethane	105	105	86 - 118	PASS
4-Bromofluorobenzene	100	101	86 - 115	PASS
Toluene-d8	94.4	93.9	88 - 110	PASS

* FAILS %REC LIMIT
FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
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Login Number: L08100887 Analyst: CAA Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287385 Units: ug/L
QC Key: STD Lot #: STD29749

Sample ID: WG287385-02 LCS File ID: 6M79640 Run Date: 11/10/2008 09:34
Sample ID: WG287385-03 LCS2 File ID: 6M79641 Run Date: 11/10/2008 10:06

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	35.0	175	20.0	32.5	163	7.32	40 - 142	20	*
Benzene	20.0	20.0	100	20.0	20.1	100	0.303	80 - 121	20	
Bromobenzene	20.0	20.3	101	20.0	20.4	102	0.456	80 - 120	20	
Bromochloromethane	20.0	25.1	125	20.0	23.9	119	4.78	65 - 130	20	
Bromodichloromethane	20.0	27.3	136	20.0	26.3	131	3.64	80 - 131	20	*
Bromoform	20.0	21.7	108	20.0	21.9	109	0.859	70 - 130	20	
Bromomethane	20.0	24.1	121	20.0	23.1	115	4.31	30 - 145	20	
2-Butanone	20.0	18.0	89.9	20.0	19.0	94.9	5.36	30 - 150	20	
n-Butylbenzene	20.0	21.4	107	20.0	20.6	103	3.83	80 - 131	20	
sec-Butylbenzene	20.0	20.9	104	20.0	20.2	101	3.38	80 - 127	20	
tert-Butylbenzene	20.0	19.5	97.3	20.0	19.0	94.8	2.66	80 - 126	20	
Carbon disulfide	20.0	23.0	115	20.0	21.9	109	5.14	58 - 138	20	
Carbon tetrachloride	20.0	21.1	106	20.0	19.7	98.5	6.96	65 - 140	20	
Chlorobenzene	20.0	21.0	105	20.0	20.7	103	1.53	80 - 120	20	
Chlorodibromomethane	20.0	22.6	113	20.0	22.1	111	2.22	60 - 135	20	
Chloroethane	20.0	26.2	131	20.0	24.4	122	7.09	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	21.1	106	20.0	20.2	101	4.67	58 - 151	20	
Chloroform	20.0	23.8	119	20.0	23.1	116	2.75	80 - 125	20	
Chloromethane	20.0	23.1	115	20.0	20.9	104	10.1	40 - 125	20	
2-Chlorotoluene	20.0	20.5	102	20.0	19.9	99.3	2.99	80 - 127	20	
4-Chlorotoluene	20.0	21.5	107	20.0	21.3	107	0.653	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	20.7	104	20.0	21.4	107	3.14	50 - 130	20	
1,2-Dibromoethane	20.0	22.0	110	20.0	22.3	112	1.32	80 - 125	20	
Dibromomethane	20.0	27.3	136	20.0	26.1	131	4.28	75 - 125	20	*
1,2-Dichlorobenzene	20.0	21.4	107	20.0	21.1	105	1.33	80 - 125	20	
1,3-Dichlorobenzene	20.0	21.0	105	20.0	20.5	103	2.16	80 - 120	20	
1,4-Dichlorobenzene	20.0	19.8	98.8	20.0	19.3	96.7	2.15	80 - 120	20	
Dichlorodifluoromethane	20.0	31.2	156	20.0	27.7	138	12.0	50 - 133	20	*
1,1-Dichloroethane	20.0	20.7	104	20.0	20.2	101	2.62	80 - 125	20	
1,2-Dichloroethane	20.0	23.7	118	20.0	23.2	116	2.15	80 - 129	20	
1,1-Dichloroethene	20.0	22.4	112	20.0	21.3	106	5.12	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.1	106	20.0	21.9	109	3.40	70 - 125	20	
trans-1,2-Dichloroethene	20.0	19.1	95.6	20.0	18.7	93.3	2.44	80 - 127	20	
1,2-Dichloropropane	20.0	20.7	104	20.0	19.9	99.6	3.87	80 - 120	20	
1,3-Dichloropropane	20.0	20.3	102	20.0	20.9	104	2.86	80 - 120	20	
2,2-Dichloropropane	20.0	20.1	101	20.0	19.6	97.9	2.73	80 - 133	20	
cis-1,3-Dichloropropene	20.0	22.8	114	20.0	22.5	112	1.42	70 - 130	20	
trans-1,3-Dichloropropene	20.0	18.4	91.9	20.0	18.8	93.9	2.20	80 - 130	20	
1,1-Dichloropropene	20.0	18.5	92.5	20.0	18.4	91.8	0.798	75 - 130	20	
Ethylbenzene	20.0	20.9	105	20.0	20.6	103	1.42	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1248076
Report generated: 11/26/2008 09:39



Login Number: L08100887 Analyst: CAA Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287385 Units: ug/L
QC Key: STD Lot #: STD29749

Sample ID: WG287385-02 LCS File ID: 6M79640 Run Date: 11/10/2008 09:34
Sample ID: WG287385-03 LCS2 File ID: 6M79641 Run Date: 11/10/2008 10:06

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	18.5	92.4	20.0	18.6	93.1	0.730	55 - 130	20	
Hexachlorobutadiene	20.0	20.7	104	20.0	19.5	97.3	6.40	72 - 132	20	
Isopropylbenzene	20.0	16.8	84.1	20.0	16.5	82.5	1.89	80 - 122	20	
p-Isopropyltoluene	20.0	20.8	104	20.0	20.1	100	3.76	80 - 122	20	
4-Methyl-2-pentanone	20.0	22.1	110	20.0	21.0	105	4.98	64 - 140	20	
Methylene chloride	20.0	22.9	115	20.0	21.6	108	6.13	80 - 123	20	
Naphthalene	20.0	17.8	88.8	20.0	18.1	90.5	1.97	59 - 149	20	
n-Propylbenzene	20.0	18.3	91.6	20.0	17.7	88.6	3.38	80 - 129	20	
Styrene	20.0	18.6	92.8	20.0	18.4	91.9	0.925	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	21.4	107	20.0	21.3	107	0.268	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	19.7	98.7	20.0	19.8	98.8	0.160	79 - 125	20	
Tetrachloroethene	20.0	19.7	98.6	20.0	19.5	97.7	0.968	80 - 124	20	
Toluene	20.0	19.9	99.7	20.0	19.7	98.6	1.13	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	16.8	84.0	20.0	16.6	83.1	1.10	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	18.7	93.7	20.0	18.7	93.7	0.0712	65 - 135	20	
1,1,1-Trichloroethane	20.0	21.3	106	20.0	20.6	103	3.05	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.0	105	20.0	21.9	110	4.41	80 - 125	20	
Trichloroethene	20.0	22.2	111	20.0	21.2	106	4.74	80 - 122	20	
Trichlorofluoromethane	20.0	24.2	121	20.0	22.9	115	5.41	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.0	105	20.0	21.5	108	2.52	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	22.0	110	20.0	21.1	105	4.31	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	18.4	92.0	20.0	17.8	89.1	3.27	80 - 127	20	
Vinyl acetate	20.0	18.8	94.1	20.0	18.2	90.9	3.39	10 - 150	20	
Vinyl chloride	20.0	36.2	181	20.0	32.5	162	11.0	65 - 140	20	*
o-Xylene	20.0	21.4	107	20.0	21.3	106	0.681	80 - 122	20	
m-, p-Xylene	40.0	44.1	110	40.0	43.6	109	1.15	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	109	106	80 - 120	PASS
Dibromofluoromethane	112	111	86 - 118	PASS
4-Bromofluorobenzene	101	101	86 - 115	PASS
Toluene-d8	93.5	96.4	88 - 110	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1248076
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Login Number: L08100887 Analyst: CAA Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287349 Units: ug/L
QC Key: STD Lot #: STD29700

Sample ID: WG287349-02 LCS File ID: 6M79612 Run Date: 11/09/2008 15:53
Sample ID: WG287349-03 LCS2 File ID: 6M79613 Run Date: 11/09/2008 16:25

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	29.5	148	20.0	26.6	133	10.3	40 - 142	20	*
Benzene	20.0	19.6	98.1	20.0	19.6	97.8	0.243	80 - 121	20	
Bromobenzene	20.0	20.5	102	20.0	20.1	100	1.98	80 - 120	20	
Bromochloromethane	20.0	23.8	119	20.0	23.5	118	0.902	65 - 130	20	
Bromodichloromethane	20.0	25.5	128	20.0	25.0	125	2.22	80 - 131	20	
Bromoform	20.0	20.0	99.8	20.0	19.9	99.4	0.397	70 - 130	20	
Bromomethane	20.0	22.1	110	20.0	22.1	111	0.303	30 - 145	20	
2-Butanone	20.0	16.2	80.9	20.0	19.6	98.2	19.3	30 - 150	20	
n-Butylbenzene	20.0	21.1	106	20.0	20.8	104	1.56	80 - 131	20	
sec-Butylbenzene	20.0	20.9	104	20.0	20.5	103	1.79	80 - 127	20	
tert-Butylbenzene	20.0	19.6	97.8	20.0	19.9	99.6	1.85	80 - 126	20	
Carbon disulfide	20.0	22.9	115	20.0	24.3	122	6.00	58 - 138	20	
Carbon tetrachloride	20.0	17.3	86.4	20.0	16.9	84.4	2.31	65 - 140	20	
Chlorobenzene	20.0	20.4	102	20.0	20.4	102	0.0695	80 - 120	20	
Chlorodibromomethane	20.0	21.1	105	20.0	20.5	103	2.87	60 - 135	20	
Chloroethane	20.0	25.7	129	20.0	25.3	127	1.68	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	21.4	107	20.0	21.8	109	1.85	58 - 151	20	
Chloroform	20.0	20.8	104	20.0	20.8	104	0.219	80 - 125	20	
Chloromethane	20.0	19.9	99.6	20.0	20.6	103	3.09	40 - 125	20	
2-Chlorotoluene	20.0	20.1	100	20.0	19.9	99.4	0.931	80 - 127	20	
4-Chlorotoluene	20.0	20.9	105	20.0	21.4	107	2.36	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	20.2	101	20.0	20.7	104	2.68	50 - 130	20	
1,2-Dibromoethane	20.0	21.7	109	20.0	21.5	108	0.965	80 - 125	20	
Dibromomethane	20.0	25.4	127	20.0	25.9	129	1.68	75 - 125	20	*
1,2-Dichlorobenzene	20.0	21.3	107	20.0	21.0	105	1.34	80 - 125	20	
1,3-Dichlorobenzene	20.0	21.0	105	20.0	20.7	103	1.53	80 - 120	20	
1,4-Dichlorobenzene	20.0	19.7	98.7	20.0	19.9	99.7	0.927	80 - 120	20	
Dichlorodifluoromethane	20.0	28.3	141	20.0	26.8	134	5.31	50 - 133	20	*
1,1-Dichloroethane	20.0	18.8	94.1	20.0	19.2	96.1	2.07	80 - 125	20	
1,2-Dichloroethane	20.0	20.3	101	20.0	20.5	103	1.25	80 - 129	20	
1,1-Dichloroethene	20.0	19.7	98.6	20.0	20.2	101	2.14	80 - 132	20	
cis-1,2-Dichloroethene	20.0	20.7	104	20.0	21.7	109	4.73	70 - 125	20	
trans-1,2-Dichloroethene	20.0	17.1	85.4	20.0	17.7	88.7	3.76	80 - 127	20	
1,2-Dichloropropane	20.0	20.5	102	20.0	20.4	102	0.412	80 - 120	20	
1,3-Dichloropropane	20.0	20.0	100	20.0	20.7	103	3.25	80 - 120	20	
2,2-Dichloropropane	20.0	16.9	84.4	20.0	17.0	84.9	0.589	80 - 133	20	
cis-1,3-Dichloropropene	20.0	22.4	112	20.0	22.0	110	1.88	70 - 130	20	
trans-1,3-Dichloropropene	20.0	17.6	88.0	20.0	16.8	84.0	4.64	80 - 130	20	
1,1-Dichloropropene	20.0	16.8	84.0	20.0	17.9	89.4	6.22	75 - 130	20	
Ethylbenzene	20.0	20.9	105	20.0	20.9	104	0.263	80 - 122	20	

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Login Number: L08100887 Analyst: CAA Prep Method: 5030B
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG287349 Units: ug/L
QC Key: STD Lot #: STD29700

Sample ID: WG287349-02 LCS File ID: 6M79612 Run Date: 11/09/2008 15:53
Sample ID: WG287349-03 LCS2 File ID: 6M79613 Run Date: 11/09/2008 16:25

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	18.0	90.2	20.0	18.0	90.1	0.0456	55 - 130	20	
Hexachlorobutadiene	20.0	19.8	98.9	20.0	19.5	97.7	1.21	72 - 132	20	
Isopropylbenzene	20.0	16.6	82.9	20.0	16.4	82.2	0.938	80 - 122	20	
p-Isopropyltoluene	20.0	20.5	103	20.0	20.5	102	0.257	80 - 122	20	
4-Methyl-2-pentanone	20.0	22.7	114	20.0	22.6	113	0.347	64 - 140	20	
Methylene chloride	20.0	22.4	112	20.0	21.6	108	3.50	80 - 123	20	
Naphthalene	20.0	18.4	92.2	20.0	19.3	96.5	4.51	59 - 149	20	
n-Propylbenzene	20.0	18.1	90.5	20.0	18.4	91.8	1.39	80 - 129	20	
Styrene	20.0	18.2	90.8	20.0	17.9	89.6	1.30	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	20.1	101	20.0	20.1	100	0.144	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	20.5	103	20.0	20.8	104	1.17	79 - 125	20	
Tetrachloroethene	20.0	18.8	93.9	20.0	18.8	93.8	0.106	80 - 124	20	
Toluene	20.0	19.6	98.2	20.0	19.3	96.3	1.94	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	16.9	84.5	20.0	17.3	86.5	2.38	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	19.2	95.9	20.0	19.6	97.9	2.07	65 - 135	20	
1,1,1-Trichloroethane	20.0	17.9	89.5	20.0	18.1	90.6	1.22	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.1	106	20.0	21.0	105	0.416	80 - 125	20	
Trichloroethene	20.0	20.9	104	20.0	21.5	107	2.73	80 - 122	20	
Trichlorofluoromethane	20.0	20.2	101	20.0	20.2	101	0.110	62 - 151	20	
1,2,3-Trichloropropane	20.0	20.8	104	20.0	21.8	109	4.46	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	21.2	106	20.0	21.2	106	0.247	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	18.7	93.4	20.0	18.2	90.9	2.67	80 - 127	20	
Vinyl acetate	20.0	17.0	85.1	20.0	17.7	88.4	3.79	10 - 150	20	
Vinyl chloride	20.0	29.3	146	20.0	29.0	145	1.15	65 - 140	20	*
o-Xylene	20.0	21.2	106	20.0	20.8	104	1.63	80 - 122	20	
m-, p-Xylene	40.0	44.0	110	40.0	43.4	108	1.47	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	92.1	95.4	80 - 120	PASS
Dibromofluoromethane	100	101	86 - 118	PASS
4-Bromofluorobenzene	97.6	99.0	86 - 115	PASS
Toluene-d8	92.3	92.4	88 - 110	PASS

* FAILS %REC LIMIT
FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1248076
Report generated: 11/26/2008 09:39



BFB

Login Number: L08100887

Instrument: HPMS14

Analyst: MDA

Workgroup: WG284610

Tune ID: WG284610-01

Run Date: 10/10/2008

Run Time: 16:05

File ID: 14M08687

Cal ID: HPMS14 - 11-OCT-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	18.4	1350	PASS
75.0	95.0	30.0	60.0	48.6	3559	PASS
95.0	95.0	100	100	100	7328	PASS
96.0	95.0	5.00	9.00	6.85	502	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	82.2	6020	PASS
175	174	5.00	9.00	6.93	417	PASS
176	174	95.0	101	97.5	5867	PASS
177	176	5.00	9.00	6.37	374	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG284610-03	STD	01	10/10/2008 17:00	
WG284610-04	STD	01	10/10/2008 17:31	
WG284610-05	STD	01	10/10/2008 18:02	
WG284610-06	STD	01	10/10/2008 18:33	
WG284610-07	STD	01	10/10/2008 19:04	
WG284610-08	STD-CCV	01	10/10/2008 19:35	
WG284610-09	STD	01	10/10/2008 20:06	
WG284610-10	STD	01	10/10/2008 20:37	
WG284610-11	STD	01	10/10/2008 21:08	
WG284610-02	STD	01	10/11/2008 03:19	
WG284610-12	SSCV	01	10/11/2008 03:50	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS14
Analyst: MDA
Workgroup: WG287339

Tune ID: WG287339-01
Run Date: 11/08/2008
Run Time: 17:56
File ID: 14M09702

Cal ID: HPMS14 - 11-OCT-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.3	2068	PASS
75.0	95.0	30.0	60.0	50.9	5465	PASS
95.0	95.0	100	100	100	10729	PASS
96.0	95.0	5.00	9.00	7.26	779	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	75.5	8099	PASS
175	174	5.00	9.00	7.45	603	PASS
176	174	95.0	101	95.1	7705	PASS
177	176	5.00	9.00	7.27	560	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287339-02	CCV	01	11/08/2008 18:20	
WG287340-01	BLANK	01	11/08/2008 19:33	
WG287340-02	LCS	01	11/08/2008 20:04	
WG287340-03	LCS2	01	11/08/2008 20:35	
L08100887-02	ICT8-102908	DL01	11/09/2008 03:18	
L08100887-03	ICT8-102908-FD	DL01	11/09/2008 03:48	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS14
Analyst: WTD
Workgroup: WG287498

Tune ID: WG287498-01
Run Date: 11/11/2008
Run Time: 08:28
File ID: 14M09752

Cal ID: HPMS14 - 11-OCT-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.0	4251	PASS
75.0	95.0	30.0	60.0	51.4	9938	PASS
95.0	95.0	100	100	100	19337	PASS
96.0	95.0	5.00	9.00	6.69	1293	PASS
173	174	0	2.00	0.556	77	PASS
174	95.0	50.0	100	71.7	13861	PASS
175	174	5.00	9.00	7.56	1048	PASS
176	174	95.0	101	95.2	13195	PASS
177	176	5.00	9.00	6.54	863	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287498-02	CCV	01	11/11/2008 09:23	
WG287499-01	BLANK	01	11/11/2008 10:56	
WG287499-02	LCS	01	11/11/2008 11:27	
WG287499-03	LCS2	01	11/11/2008 11:58	
WG287499-04	LCS	02	11/11/2008 12:30	
WG287499-05	LCS2	02	11/11/2008 13:01	
L08100887-01	ICT7-102908	01	11/11/2008 19:44	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS6
Analyst: CAA
Workgroup: WG286204

Tune ID: WG286204-01
Run Date: 10/28/2008
Run Time: 15:16
File ID: 6M79241

Cal ID: HPMS6 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	26.0	23018	PASS
75.0	95.0	30.0	60.0	47.9	42344	PASS
95.0	95.0	100	100	100	88450	PASS
96.0	95.0	5.00	9.00	6.77	5986	PASS
173	174	0	2.00	0.573	371	PASS
174	95.0	50.0	100	73.2	64704	PASS
175	174	5.00	9.00	7.13	4611	PASS
176	174	95.0	101	97.4	63010	PASS
177	176	5.00	9.00	7.01	4414	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG286204-02	STD	01	10/28/2008 16:16	
WG286204-03	STD	01	10/28/2008 16:49	
WG286204-04	STD	01	10/28/2008 17:21	
WG286204-05	STD	01	10/28/2008 17:55	
WG286204-06	STD	01	10/28/2008 18:28	
WG286204-07	STD	01	10/28/2008 19:00	
WG286204-08	STD-CCV	01	10/28/2008 19:33	
WG286204-09	STD	01	10/28/2008 20:07	
WG286204-10	STD	01	10/28/2008 20:40	
WG286204-11	STD	01	10/28/2008 21:12	
WG286204-12	SSCV	01	10/28/2008 22:51	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS6
Analyst: MDA
Workgroup: WG287337

Tune ID: WG287337-01
Run Date: 11/08/2008
Run Time: 17:28
File ID: 6M79576

Cal ID: HPMS6 - 28-OCT-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.4	34103	PASS
75.0	95.0	30.0	60.0	49.6	69261	PASS
95.0	95.0	100	100	100	139546	PASS
96.0	95.0	5.00	9.00	6.84	9548	PASS
173	174	0	2.00	0.700	758	PASS
174	95.0	50.0	100	77.6	108298	PASS
175	174	5.00	9.00	7.75	8391	PASS
176	174	95.0	101	96.7	104754	PASS
177	176	5.00	9.00	6.55	6862	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287337-02	CCV	01	11/08/2008 17:55	
WG287338-01	BLANK	01	11/08/2008 19:10	
WG287338-02	LCS	01	11/08/2008 19:42	
WG287338-03	LCS2	01	11/08/2008 20:13	
L08100887-13	ICT14D-102908	01	11/08/2008 21:18	
L08100887-05	ICT12B-102908	DL01	11/09/2008 00:57	
L08100887-10	ICT14A-102908	DL01	11/09/2008 01:29	
L08100887-12	ICT14C-102908	DL01	11/09/2008 02:33	
L08100887-14	EW01-102908	DL01	11/09/2008 03:37	
L08100887-15	EW01-102908-FD	DL01	11/09/2008 04:09	
L08100887-06	ICT12C-102908	DL01	11/09/2008 04:41	
L08100887-17	ICT4-102908	DL01	11/09/2008 05:13	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS6
Analyst: CAA
Workgroup: WG287348

Tune ID: WG287348-01
Run Date: 11/09/2008
Run Time: 12:59
File ID: 6M79607

Cal ID: HPMS6 - 28-OCT-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.1	23125	PASS
75.0	95.0	30.0	60.0	46.0	44189	PASS
95.0	95.0	100	100	100	96000	PASS
96.0	95.0	5.00	9.00	6.59	6324	PASS
173	174	0	2.00	0.545	400	PASS
174	95.0	50.0	100	76.4	73344	PASS
175	174	5.00	9.00	7.72	5659	PASS
176	174	95.0	101	96.6	70880	PASS
177	176	5.00	9.00	6.76	4794	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287348-02	CCV	01	11/09/2008 14:12	
WG287349-01	BLANK	01	11/09/2008 15:21	
WG287349-02	LCS	01	11/09/2008 15:53	
WG287349-03	LCS2	01	11/09/2008 16:25	
L08100887-10	ICT14A-102908	01	11/09/2008 18:01	
L08100887-12	ICT14C-102908	DL02	11/09/2008 18:33	
L08100887-07	ICT12D-102908	DL02	11/09/2008 19:04	
L08100887-08	ICT12E-102908	DL02	11/09/2008 19:36	
L08100887-04	ICT11-102908	DL02	11/09/2008 20:08	
L08100887-19	EXT1-102908	DL01	11/09/2008 20:40	
L08100887-22	EXT3-102908	DL01	11/09/2008 21:12	
L08100887-13	ICT14D-102908	DL01	11/09/2008 21:44	
WG287349-04	BLANK2	01	11/10/2008 02:00	*

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS6
Analyst: CAA
Workgroup: WG287382

Tune ID: WG287382-01
Run Date: 11/10/2008
Run Time: 07:27
File ID: 6M79636

Cal ID: HPMS6 - 28-OCT-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	26.7	57741	PASS
75.0	95.0	30.0	60.0	50.7	109712	PASS
95.0	95.0	100	100	100	216448	PASS
96.0	95.0	5.00	9.00	6.89	14907	PASS
173	174	0	2.00	0.691	1118	PASS
174	95.0	50.0	100	74.8	161869	PASS
175	174	5.00	9.00	7.72	12489	PASS
176	174	95.0	101	97.9	158461	PASS
177	176	5.00	9.00	6.19	9806	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287382-02	CCV	01	11/10/2008 07:54	
WG287385-01	BLANK	01	11/10/2008 09:02	
WG287385-02	LCS	01	11/10/2008 09:34	
WG287385-03	LCS2	01	11/10/2008 10:06	
L08100887-13	ICT14D-102908	DL02	11/10/2008 10:39	
L08100887-18	TRIP BLANK	01	11/10/2008 12:15	
WG287385-04	BLANK2	01	11/10/2008 20:13	*

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS6
Analyst: CAA
Workgroup: WG287485

Tune ID: WG287485-01
Run Date: 11/11/2008
Run Time: 07:21
File ID: 6M79664

Cal ID: HPMS6 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.9	62845	PASS
75.0	95.0	30.0	60.0	48.7	123096	PASS
95.0	95.0	100	100	100	252885	PASS
96.0	95.0	5.00	9.00	7.27	18394	PASS
173	174	0	2.00	0.819	1581	PASS
174	95.0	50.0	100	76.3	193045	PASS
175	174	5.00	9.00	7.45	14386	PASS
176	174	95.0	101	98.9	190890	PASS
177	176	5.00	9.00	6.31	12044	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287485-02	CCV	01	11/11/2008 08:26	
WG287486-01	BLANK	01	11/11/2008 09:41	
WG287486-02	LCS	01	11/11/2008 10:13	
WG287486-03	REF	01	11/11/2008 11:49	
WG287486-04	MS	01	11/11/2008 12:21	
WG287486-05	MSD	01	11/11/2008 12:53	
L08100887-26	EXT7-102908	DL02	11/11/2008 13:57	
L08100887-24	EXT5-102908	01	11/11/2008 14:29	
L08100887-27	EXT8-102908	01	11/11/2008 15:02	
L08100887-23	EXT4-102908	DL02	11/11/2008 15:34	
L08100887-25	EXT6-102908	DL02	11/11/2008 16:07	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887

Instrument: HPMS8

Analyst: CAA

Workgroup: WG286725

Tune ID: WG286725-01

Run Date: 11/03/2008

Run Time: 15:30

File ID: 8M349422

Cal ID: HPMS8 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	21.9	21954	PASS
75.0	95.0	30.0	60.0	55.5	55741	PASS
95.0	95.0	100	100	100	100466	PASS
96.0	95.0	5.00	9.00	6.85	6881	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	77.0	77341	PASS
175	174	5.00	9.00	7.10	5495	PASS
176	174	95.0	101	97.0	75056	PASS
177	176	5.00	9.00	6.55	4915	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG286725-03	STD	01	11/03/2008 17:01	
WG286725-04	STD	01	11/03/2008 17:33	
WG286725-05	STD	01	11/03/2008 18:05	
WG286725-06	STD	01	11/03/2008 18:37	
WG286725-07	STD	01	11/03/2008 19:09	
WG286725-08	STD-CCV	01	11/03/2008 19:41	
WG286725-09	STD	01	11/03/2008 20:13	
WG286725-10	STD	01	11/03/2008 20:45	
WG286725-11	STD	01	11/03/2008 21:17	
WG286725-12	SSCV	01	11/03/2008 22:52	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887

Tune ID: WG287055-01

Instrument: HPMS8

Run Date: 11/05/2008

Analyst: FJB

Run Time: 19:16

Workgroup: WG287055

File ID: 8M349493

Cal ID: HPMS8-03-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.3	19090	PASS
75.0	95.0	30.0	60.0	51.0	50365	PASS
95.0	95.0	100	100	100	98773	PASS
96.0	95.0	5.00	9.00	7.15	7065	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	79.5	78549	PASS
175	174	5.00	9.00	7.57	5947	PASS
176	174	95.0	101	98.5	77341	PASS
177	176	5.00	9.00	6.68	5170	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG286725-13	SSCV	01	11/05/2008 22:21	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS8
Analyst: CAA
Workgroup: WG287400

Tune ID: WG287400-01
Run Date: 11/10/2008
Run Time: 08:52
File ID: 8M349596

Cal ID: HPMS8-03-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	18.6	20938	PASS
75.0	95.0	30.0	60.0	50.4	56789	PASS
95.0	95.0	100	100	100	112744	PASS
96.0	95.0	5.00	9.00	6.74	7594	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	87.3	98389	PASS
175	174	5.00	9.00	7.58	7461	PASS
176	174	95.0	101	95.7	94189	PASS
177	176	5.00	9.00	6.92	6520	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287400-02	CCV	01	11/10/2008 09:19	
WG287402-01	BLANK	01	11/10/2008 10:28	
WG287402-02	LCS	01	11/10/2008 11:00	
WG287402-03	LCS2	01	11/10/2008 11:32	
L08100887-28	TRIP BLANK	01	11/10/2008 13:08	
L08100887-11	ICT14B-102908	01	11/10/2008 13:40	
L08100887-20	EXT2-102908	DL01	11/10/2008 16:20	
L08100887-21	EXT2-102908-FD	DL01	11/10/2008 16:52	
L08100887-23	EXT4-102908	DL01	11/10/2008 17:23	
L08100887-09	ICT13F-102908	01	11/10/2008 20:03	
L08100887-16	18WW17-102908	01	11/10/2008 20:35	

* Sample past 12 hour tune limit

BFB

Login Number: L08100887
Instrument: HPMS8
Analyst: CAA
Workgroup: WG287487

Tune ID: WG287487-01
Run Date: 11/11/2008
Run Time: 07:35
File ID: 8M349621

Cal ID: HPMS8-03-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.6	26101	PASS
75.0	95.0	30.0	60.0	51.3	68490	PASS
95.0	95.0	100	100	100	133386	PASS
96.0	95.0	5.00	9.00	6.58	8771	PASS
173	174	0	2.00	0.283	313	PASS
174	95.0	50.0	100	82.9	110637	PASS
175	174	5.00	9.00	7.42	8214	PASS
176	174	95.0	101	96.2	106453	PASS
177	176	5.00	9.00	6.28	6686	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287487-02	CCV	01	11/11/2008 08:02	
WG287488-01	BLANK	01	11/11/2008 09:11	
WG287488-02	LCS	01	11/11/2008 09:43	
L08100887-20	EXT2-102908	DL02	11/11/2008 10:15	
L08100887-21	EXT2-102908-FD	DL02	11/11/2008 10:47	
WG287488-03	REF	01	11/11/2008 13:27	
WG287488-04	MS	01	11/11/2008 13:59	
WG287488-05	MSD	01	11/11/2008 14:31	

* Sample past 12 hour tune limit

Login Number: L08100887
Analytical Method: 8260B
ICAL Workgroup: WG284610

Instrument ID: HPMS14
Initial Calibration Date: 11-OCT-08 03:19
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
1,1-Dichloroethene	CCC	0.2708	15.5		1.00000
1,2-Dichloropropane	CCC	0.1953	8.01		
Chloroform	CCC	0.3651	8.48		
Ethylbenzene	CCC	0.4104	8.75		
Toluene	CCC	1.155	6.44		
Vinyl Chloride	CCC	0.1268	13.2		
1,1,2,2-Tetrachloroethane	SPCC	0.3537	9.63		
1,1-Dichloroethane	SPCC	0.3486	9.62		
Bromoform	SPCC	0.1366	13.7		
Chlorobenzene	SPCC	0.7527	7.87		
Chloromethane	SPCC	0.1640	9.78		
1,1,1,2-Tetrachloroethane		0.2795	11.7		
1,1,1-Trichloroethane		0.3645	11.2		
1,1,2-Trichloroethane		0.1648	8.41		
1,1-Dichloropropene		0.2813	7.76		
1,2,3-Trichlorobenzene		0.3988	10.5		
1,2,3-Trichloropropane		0.1270	9.25		
1,2,4-Trichlorobenzene		0.4788	6.66		
1,2,4-Trimethylbenzene		1.654	5.96		
1,2-Dibromo-3-Chloropropane		0.06938	8.11		
1,2-Dibromoethane		0.1683	9.16		
1,2-Dichlorobenzene		1.072	5.53		
1,2-Dichloroethane		0.2567	10.8		
1,3,5-Trimethylbenzene		1.756	6.78		
1,3-Dichlorobenzene		1.232	5.38		
1,3-Dichloropropane		0.2978	7.27		
1,4-Dichlorobenzene		1.242	7.85		
2,2-Dichloropropane		0.2671	42.2		1.00000
2-Butanone		0.03908	7.46		
2-Chloroethyl Vinyl Ether		0.01436	27.5	0.99100	
2-Chlorotoluene		2.178	8.04		
2-Hexanone		0.08063	5.18		
4-Chlorotoluene		1.708	5.79		
4-Methyl-2-Pentanone		0.03973	5.17		
Acetone		0.02720	6.04		
Benzene		0.7703	6.01		
Bromobenzene		0.6813	6.59		
Bromochloromethane		0.09630	10.4		
Bromodichloromethane		0.2729	10.4		
Bromomethane		0.09207	23.9	0.99900	
Carbon Disulfide		0.5828	7.36		
Carbon Tetrachloride		0.3141	16.3		1.00000
Chloroethane		0.1123	7.04		
Dibromochloromethane		0.2493	11.3		
Dibromomethane		0.08835	11.4		

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Login Number: L08100887
Analytical Method: 8260B
ICAL Workgroup: WG284610

Instrument ID: HPMS14
Initial Calibration Date: 11-OCT-08 03:19
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
Dichlorodifluoromethane		0.2233	9.84		
Hexachlorobutadiene		0.3634	8.03		
Isopropylbenzene		1.303	6.83		
Methylene Chloride		0.2145	38.8		1.00000
Naphthalene		0.5711	9.18		
Styrene		0.7655	10.1		
Tetrachloroethene		0.3103	7.87		
Trichloroethene		0.2266	7.40		
Trichlorofluoromethane		0.3372	21.4		1.00000
Vinyl Acetate		0.1341	47.3		0.99800
cis-1,2-Dichloroethene		0.1932	11.1		
cis-1,3-Dichloropropene		0.2816	12.4		
m-,p-Xylene		0.4786	7.53		
n-Butylbenzene		1.509	8.58		
n-Propylbenzene		2.958	7.76		
o-Xylene		0.4667	7.56		
p-Isopropyltoluene		1.968	8.14		
sec-Butylbenzene		2.550	6.66		
tert-Butylbenzene		0.4408	5.79		
trans-1,2-Dichloroethene		0.1739	14.7		
trans-1,3-Dichloropropene		0.3258	14.3		

R = Correlation coefficient; 0.995 minimum
R² = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

Login Number: L08100887
Analytical Method: 8260B
ICAL Workgroup: WG286204

Instrument ID: HPMS6
Initial Calibration Date: 28-OCT-08 21:12
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
1,1-Dichloroethene	CCC	0.4102	14.8		
1,2-Dichloropropane	CCC	0.2217	10.1		
Chloroform	CCC	0.4091	9.74		
Ethylbenzene	CCC	0.3502	14.5		
Toluene	CCC	0.9127	13.6		
Vinyl Chloride	CCC	0.2181	18.8		1.00000
1,1,2,2-Tetrachloroethane	SPCC	0.3052	5.06		
1,1-Dichloroethane	SPCC	0.4752	10.4		
Bromoform	SPCC	0.1537	11.1		
Chlorobenzene	SPCC	0.7154	8.93		
Chloromethane	SPCC	0.2604	11.9		
1,1,1,2-Tetrachloroethane		0.2690	9.95		
1,1,1-Trichloroethane		0.3740	12.4		
1,1,2-Trichloroethane		0.1700	5.39		
1,1-Dichloropropene		0.2746	6.01		
1,2,3-Trichlorobenzene		0.5789	6.21		
1,2,3-Trichloropropane		0.1064	6.97		
1,2,4-Trichlorobenzene		0.6580	9.32		
1,2,4-Trimethylbenzene		1.705	10.1		
1,2-Dibromo-3-Chloropropane		0.06638	7.96		
1,2-Dibromoethane		0.1715	9.33		
1,2-Dichlorobenzene		0.9636	8.47		
1,2-Dichloroethane		0.3706	9.91		
1,3,5-Trimethylbenzene		1.526	16.0		1.00000
1,3-Dichlorobenzene		1.037	8.53		
1,3-Dichloropropane		0.2918	7.08		
1,4-Dichlorobenzene		1.126	10.4		
2,2-Dichloropropane		0.3325	14.5		
2-Butanone		0.06605	4.52		
2-Chloroethyl Vinyl Ether		0.09907	14.1		
2-Chlorotoluene		1.472	13.2		
2-Hexanone		0.1189	11.2		
4-Chlorotoluene		1.448	14.9		
4-Methyl-2-Pentanone		0.06163	13.6		
Acetone		0.04502	5.94		
Benzene		0.6910	9.74		
Bromobenzene		0.4965	10.3		
Bromochloromethane		0.1248	4.56		
Bromodichloromethane		0.2815	8.98		
Bromomethane		0.1343	20.0		1.00000
Carbon Disulfide		0.6200	4.26		
Carbon Tetrachloride		0.3333	15.3		1.00000
Chloroethane		0.1731	4.22		
Dibromochloromethane		0.2439	10.2		
Dibromomethane		0.1109	9.99		

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Login Number: L08100887
Analytical Method: 8260B
ICAL Workgroup: WG286204

Instrument ID: HPMS6
Initial Calibration Date: 28-OCT-08 21:12
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
Dichlorodifluoromethane		0.2339	14.2		
Hexachlorobutadiene		0.2797	9.14		
Isopropylbenzene		1.097	17.8		1.00000
Methylene Chloride		0.2545	43.0	1.00000	
Naphthalene		1.099	11.3		
Styrene		0.7254	15.2		1.00000
Tetrachloroethene		0.2580	15.3		1.00000
Trichloroethene		0.2022	13.4		
Trichlorofluoromethane		0.4193	19.1		1.00000
Vinyl Acetate		0.2924	5.92		
cis-1,2-Dichloroethene		0.2073	12.3		
cis-1,3-Dichloropropene		0.2816	11.6		
m-,p-Xylene		0.4359	14.5		
n-Butylbenzene		1.676	11.6		
n-Propylbenzene		2.116	17.9		1.00000
o-Xylene		0.4276	13.4		
p-Isopropyltoluene		1.804	10.4		
sec-Butylbenzene		1.951	10.8		
tert-Butylbenzene		0.3819	1.71		
trans-1,2-Dichloroethene		0.1949	11.0		
trans-1,3-Dichloropropene		0.3250	14.8		

R = Correlation coefficient; 0.995 minimum
R² = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

Login Number: L08100887
Analytical Method: 8260B
ICAL Workgroup: WG286725

Instrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
1,1-Dichloroethene	CCC	0.3852	6.93		
1,2-Dichloropropane	CCC	0.2370	5.80		
Chloroform	CCC	0.4592	5.40		
Ethylbenzene	CCC	0.4430	9.28		
Toluene	CCC	1.238	9.78		
Vinyl Chloride	CCC	0.1728	12.7		
1,1,2,2-Tetrachloroethane	SPCC	0.4104	7.09		
1,1-Dichloroethane	SPCC	0.4562	5.60		
Bromoform	SPCC	0.1618	11.1		
Chlorobenzene	SPCC	0.7945	10.2		
Chloromethane	SPCC	0.2187	19.9	0.99900	
1,1,1,2-Tetrachloroethane		0.2676	5.76		
1,1,1-Trichloroethane		0.3996	5.29		
1,1,2-Trichloroethane		0.1952	14.2		
1,1-Dichloropropene		0.3444	3.27		
1,2,3-Trichlorobenzene		0.5370	9.85		
1,2,3-Trichloropropane		0.1278	1.95		
1,2,4-Trichlorobenzene		0.6559	8.39		
1,2,4-Trimethylbenzene		2.116	6.56		
1,2-Dibromo-3-Chloropropane		0.07567	7.01		
1,2-Dibromoethane		0.1984	5.59		
1,2-Dichlorobenzene		1.020	7.30		
1,2-Dichloroethane		0.3198	5.63		
1,3,5-Trimethylbenzene		1.969	7.02		
1,3-Dichlorobenzene		1.163	8.46		
1,3-Dichloropropane		0.3992	6.10		
1,4-Dichlorobenzene		1.190	8.86		
2,2-Dichloropropane		0.4005	4.38		
2-Butanone		0.05164	10.9		
2-Chloroethyl Vinyl Ether		0.09606	11.8		
2-Chlorotoluene		2.114	10.8		
2-Hexanone		0.05578	8.61		
4-Chlorotoluene		1.877	6.42		
4-Methyl-2-Pentanone		0.04562	5.23		
Acetone		0.03725	2.89		
Benzene		0.9714	8.83		
Bromobenzene		0.6043	6.01		
Bromochloromethane		0.1160	6.91		
Bromodichloromethane		0.3264	2.79		
Bromomethane		0.1758	7.53		
Carbon Disulfide		0.7651	5.88		
Carbon Tetrachloride		0.3269	5.92		
Chloroethane		0.1746	4.20		
Dibromochloromethane		0.2369	6.63		
Dibromomethane		0.1100	7.94		

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Login Number: L08100887
Analytical Method: 8260B
ICAL Workgroup: WG286725

Instrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
Dichlorodifluoromethane		0.2593	9.84		
Hexachlorobutadiene		0.3368	8.63		
Isopropylbenzene		1.287	7.77		
Methylene Chloride		0.3277	47.1		1.00000
Naphthalene		1.035	6.63		
Styrene		0.8511	9.23		
Tetrachloroethene		0.2414	5.35		
Trichloroethene		0.2092	4.67		
Trichlorofluoromethane		0.4275	9.23		
Vinyl Acetate		0.2630	28.0		
cis-1,2-Dichloroethene		0.2411	8.63		
cis-1,3-Dichloropropene		0.3545	5.05		
m-,p-Xylene		0.5444	9.53		
n-Butylbenzene		1.795	6.54		
n-Propylbenzene		2.918	9.91		
o-Xylene		0.5348	6.95		
p-Isopropyltoluene		1.847	4.56		
sec-Butylbenzene		2.297	6.41		
tert-Butylbenzene		0.3728	4.61		
trans-1,2-Dichloroethene		0.3662	5.19		
trans-1,3-Dichloropropene		0.4322	4.43		

R = Correlation coefficient; 0.995 minimum
R² = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

Login Number: L08100887
Analytical Method: 8260BInstrument ID: HPMS14
Initial Calibration Date: 11-OCT-08 03:19
Column ID: F

Analyte	WG284610-02			WG284610-03			WG284610-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	1920.00000	0.2019	1.00	5943.00000	0.2541
1,2-Dichloropropane	NA	NA	NA	0.400	1810.00000	0.1903	1.00	4477.00000	0.1914
Chloroform	0.300	2235.00000	0.3325	0.400	3590.00000	0.3775	1.00	7938.00000	0.3394
Ethylbenzene	NA	NA	NA	0.400	2754.00000	0.3857	1.00	7580.00000	0.4263
Toluene	NA	NA	NA	0.400	7643.00000	1.070	1.00	20397.0000	1.147
Vinyl Chloride	NA	NA	NA	0.400	1389.00000	0.1461	1.00	3486.00000	0.1491
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	1015.00000	0.3126	1.00	2978.00000	0.3763
1,1-Dichloroethane	NA	NA	NA	0.400	3043.00000	0.3200	1.00	7450.00000	0.3186
Bromoform	NA	NA	NA	NA	NA	NA	1.00	1961.00000	0.1103
Chlorobenzene	NA	NA	NA	0.400	5697.00000	0.7978	1.00	13823.0000	0.7774
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	4373.00000	0.1870
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	1978.00000	0.2770	1.00	5093.00000	0.2864
1,1,1-Trichloroethane	NA	NA	NA	0.400	2848.00000	0.2995	1.00	8002.00000	0.3422
1,1,2-Trichloroethane	NA	NA	NA	0.400	1051.00000	0.1472	1.00	2954.00000	0.1661
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	6147.00000	0.2629
1,2,3-Trichlorobenzene	0.300	1076.00000	0.4978	0.400	1240.00000	0.3819	1.00	2915.00000	0.3683
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	993.000000	0.1255
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	1649.00000	0.5079	1.00	3605.00000	0.4555
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	1.00	12465.0000	1.575
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	0.400	1059.00000	0.1483	1.00	2838.00000	0.1596
1,2-Dichlorobenzene	0.300	2493.00000	1.153	0.400	3465.00000	1.067	1.00	8214.00000	1.038
1,2-Dichloroethane	NA	NA	NA	0.400	2103.00000	0.2212	1.00	5637.00000	0.2411
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	1.00	13059.0000	1.650
1,3-Dichlorobenzene	NA	NA	NA	0.400	3930.00000	1.211	1.00	9728.00000	1.229
1,3-Dichloropropane	NA	NA	NA	0.400	2024.00000	0.2834	1.00	5208.00000	0.2929
1,4-Dichlorobenzene	0.300	3120.00000	1.444	0.400	4095.00000	1.261	1.00	9676.00000	1.223
2,2-Dichloropropane	NA	NA	NA	0.400	0	0	1.00	6224.00000	0.2662
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	0.400	6820.00000	2.101	1.00	17082.0000	2.158
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	5630.00000	1.734	1.00	13745.0000	1.737
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	7351.00000	0.7730	1.00	17546.0000	0.7503
Bromobenzene	0.300	1540.00000	0.7125	0.400	2149.00000	0.6619	1.00	5457.00000	0.6895
Bromochloromethane	NA	NA	NA	0.400	765.000000	0.08040	1.00	2142.00000	0.09160
Bromodichloromethane	NA	NA	NA	0.400	2391.00000	0.2514	1.00	5685.00000	0.2431
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	1716.00000	0.07340
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	12628.0000	0.5400
Carbon Tetrachloride	NA	NA	NA	0.400	2027.00000	0.2132	1.00	6926.00000	0.2962

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Login Number: L08100887
Analytical Method: 8260BInstrument ID: HPMS14
Initial Calibration Date: 11-OCT-08 03:19
Column ID: F

Analyte	WG284610-05			WG284610-06			WG284610-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	10214.0000	0.2237	5.00	32050.0000	0.2745	20.0	134437.000	0.2820
1,2-Dichloropropane	2.00	7561.00000	0.1656	5.00	24862.0000	0.2129	20.0	103094.000	0.2162
Chloroform	2.00	13998.0000	0.3066	5.00	45218.0000	0.3873	20.0	188601.000	0.3956
Ethylbenzene	2.00	13329.0000	0.3802	5.00	38936.0000	0.4444	20.0	162775.000	0.4536
Toluene	2.00	39690.0000	1.132	5.00	112398.000	1.283	20.0	441676.000	1.231
Vinyl Chloride	2.00	5261.00000	0.1152	5.00	14313.0000	0.1226	20.0	60764.0000	0.1274
1,1,2,2-Tetrachloroethane	2.00	5129.00000	0.3248	5.00	15688.0000	0.3969	20.0	65298.0000	0.4010
1,1-Dichloroethane	2.00	13261.0000	0.2904	5.00	43427.0000	0.3719	20.0	177481.000	0.3722
Bromoform	2.00	3891.00000	0.1110	5.00	12159.0000	0.1388	20.0	55374.0000	0.1543
Chlorobenzene	2.00	24871.0000	0.7094	5.00	70438.0000	0.8039	20.0	292254.000	0.8144
Chloromethane	2.00	6632.00000	0.1452	5.00	18599.0000	0.1593	20.0	70716.0000	0.1483
1,1,1,2-Tetrachloroethane	2.00	9196.00000	0.2623	5.00	27702.0000	0.3162	20.0	115026.000	0.3205
1,1,1-Trichloroethane	2.00	14525.0000	0.3181	5.00	46191.0000	0.3956	20.0	193350.000	0.4055
1,1,2-Trichloroethane	2.00	5158.00000	0.1471	5.00	16026.0000	0.1829	20.0	65945.0000	0.1838
1,1-Dichloropropene	2.00	11088.0000	0.2428	5.00	34077.0000	0.2919	20.0	141988.000	0.2978
1,2,3-Trichlorobenzene	2.00	5491.00000	0.3477	5.00	15581.0000	0.3942	20.0	65467.0000	0.4021
1,2,3-Trichloropropane	2.00	1787.00000	0.1132	5.00	5563.00000	0.1407	20.0	23441.0000	0.1440
1,2,4-Trichlorobenzene	2.00	6540.00000	0.4142	5.00	18530.0000	0.4688	20.0	81127.0000	0.4982
1,2,4-Trimethylbenzene	2.00	23510.0000	1.489	5.00	66709.0000	1.688	20.0	284483.000	1.747
1,2-Dibromo-3-Chloropropane	2.00	942.000000	0.05970	5.00	2822.00000	0.07140	20.0	12446.0000	0.07640
1,2-Dibromoethane	2.00	5207.00000	0.1485	5.00	16195.0000	0.1848	20.0	68206.0000	0.1901
1,2-Dichlorobenzene	2.00	15388.0000	0.9745	5.00	43936.0000	1.112	20.0	186290.000	1.144
1,2-Dichloroethane	2.00	10191.0000	0.2232	5.00	33941.0000	0.2907	20.0	139991.000	0.2936
1,3,5-Trimethylbenzene	2.00	24795.0000	1.570	5.00	70601.0000	1.786	20.0	303593.000	1.864
1,3-Dichlorobenzene	2.00	17792.0000	1.127	5.00	50624.0000	1.281	20.0	216954.000	1.332
1,3-Dichloropropane	2.00	9652.00000	0.2753	5.00	28876.0000	0.3296	20.0	119279.000	0.3324
1,4-Dichlorobenzene	2.00	17431.0000	1.104	5.00	49893.0000	1.262	20.0	210746.000	1.294
2,2-Dichloropropane	2.00	11135.0000	0.2439	5.00	36855.0000	0.3157	20.0	156747.000	0.3287
2-Butanone	NA	NA	NA	5.00	4994.00000	0.04280	20.0	20010.0000	0.04200
2-Chloroethyl Vinyl Ether	NA	NA	NA	5.00	1090.00000	0.009300	20.0	6409.00000	0.01340
2-Chlorotoluene	2.00	31449.0000	1.992	5.00	91486.0000	2.315	20.0	396567.000	2.435
2-Hexanone	NA	NA	NA	5.00	7023.00000	0.08020	20.0	30558.0000	0.08510
4-Chlorotoluene	2.00	25456.0000	1.612	5.00	72328.0000	1.830	20.0	293169.000	1.800
4-Methyl-2-Pentanone	NA	NA	NA	5.00	4657.00000	0.03990	20.0	19502.0000	0.04090
Acetone	NA	NA	NA	5.00	3165.00000	0.02710	20.0	13772.0000	0.02890
Benzene	2.00	31019.0000	0.6793	5.00	95145.0000	0.8149	20.0	395151.000	0.8288
Bromobenzene	2.00	10040.0000	0.6358	5.00	29009.0000	0.7339	20.0	121203.000	0.7443
Bromochloromethane	2.00	3861.00000	0.08460	5.00	12596.0000	0.1079	20.0	50996.0000	0.1070
Bromodichloromethane	2.00	10471.0000	0.2293	5.00	34533.0000	0.2958	20.0	148236.000	0.3109
Bromomethane	2.00	3145.00000	0.06890	5.00	8254.00000	0.07070	20.0	41830.0000	0.08770
Carbon Disulfide	2.00	23544.0000	0.5156	5.00	69007.0000	0.5910	20.0	273208.000	0.5730
Carbon Tetrachloride	2.00	12477.0000	0.2733	5.00	40582.0000	0.3476	20.0	169284.000	0.3550

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Column ID: F

Analyte	WG284610-08			WG284610-09			WG284610-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	390697.000	0.3189	100	771440.000	0.3138	200	1515582.00	0.2978
1,2-Dichloropropane	50.0	242999.000	0.1984	100	485115.000	0.1973	200	967330.000	0.1900
Chloroform	50.0	474718.000	0.3875	100	939754.000	0.3823	200	1921405.00	0.3775
Ethylbenzene	50.0	407223.000	0.4367	100	785075.000	0.4055	200	1381743.00	0.3511
Toluene	50.0	1091918.00	1.171	100	2204317.00	1.139	200	4186761.00	1.064
Vinyl Chloride	50.0	154556.000	0.1262	100	248355.000	0.1010	NA	NA	NA
1,1,2,2-Tetrachloroethane	50.0	145130.000	0.3405	100	334235.000	0.3525	200	646288.000	0.3253
1,1-Dichloroethane	50.0	459769.000	0.3753	100	913717.000	0.3717	200	1878231.00	0.3690
Bromoform	50.0	131451.000	0.1410	100	298394.000	0.1541	200	576055.000	0.1464
Chlorobenzene	50.0	705684.000	0.7568	100	1397516.00	0.7218	200	2519495.00	0.6402
Chloromethane	50.0	194573.000	0.1588	100	409780.000	0.1667	200	931613.000	0.1830
1,1,1,2-Tetrachloroethane	50.0	270853.000	0.2905	100	511893.000	0.2644	200	859411.000	0.2184
1,1,1-Trichloroethane	50.0	496324.000	0.4052	100	949750.000	0.3863	200	1848676.00	0.3632
1,1,2-Trichloroethane	50.0	154135.000	0.1653	100	323080.000	0.1669	200	627076.000	0.1593
1,1-Dichloropropene	50.0	372365.000	0.3040	100	718940.000	0.2924	200	1410120.00	0.2770
1,2,3-Trichlorobenzene	50.0	164817.000	0.3867	100	384279.000	0.4052	200	805469.000	0.4054
1,2,3-Trichloropropane	50.0	52878.0000	0.1241	100	119989.000	0.1265	200	228096.000	0.1148
1,2,4-Trichlorobenzene	50.0	205737.000	0.4827	100	473158.000	0.4990	200	1002005.00	0.5043
1,2,4-Trimethylbenzene	50.0	754319.000	1.770	100	1596714.00	1.684	200	3231706.00	1.627
1,2-Dibromo-3-Chloropropane	50.0	29218.0000	0.06860	100	68387.0000	0.07210	200	135251.000	0.06810
1,2-Dibromoethane	50.0	159836.000	0.1714	100	338180.000	0.1747	200	664429.000	0.1688
1,2-Dichlorobenzene	50.0	462118.000	1.084	100	1006596.00	1.062	200	2007340.00	1.010
1,2-Dichloroethane	50.0	321557.000	0.2625	100	661916.000	0.2692	200	1281932.00	0.2519
1,3,5-Trimethylbenzene	50.0	813775.000	1.909	100	1701942.00	1.795	200	3407385.00	1.715
1,3-Dichlorobenzene	50.0	546499.000	1.282	100	1165098.00	1.229	200	2317817.00	1.167
1,3-Dichloropropane	50.0	274955.000	0.2949	100	568523.000	0.2936	200	1102484.00	0.2801
1,4-Dichlorobenzene	50.0	533367.000	1.251	100	1137859.00	1.200	200	2263439.00	1.139
2,2-Dichloropropane	50.0	407685.000	0.3328	100	804024.000	0.3270	200	1641483.00	0.3225
2-Butanone	50.0	42790.0000	0.03490	100	96215.0000	0.03910	200	190391.000	0.03740
2-Chloroethyl Vinyl Ether	50.0	15732.0000	0.01280	100	40676.0000	0.01650	200	100637.000	0.01980
2-Chlorotoluene	50.0	1002896.00	2.353	100	2013121.00	2.123	200	3861980.00	1.944
2-Hexanone	50.0	69600.0000	0.07460	100	162504.000	0.08390	200	302737.000	0.07690
4-Chlorotoluene	50.0	751005.000	1.762	100	1559270.00	1.644	200	3064798.00	1.543
4-Methyl-2-Pentanone	50.0	44484.0000	0.03630	100	103206.000	0.04200	200	195709.000	0.03840
Acetone	50.0	32635.0000	0.02660	100	69235.0000	0.02820	200	142849.000	0.02810
Benzene	50.0	973456.000	0.7946	100	1891208.00	0.7693	200	3827950.00	0.7520
Bromobenzene	50.0	293967.000	0.6897	100	619850.000	0.6536	200	1212134.00	0.6101
Bromochloromethane	50.0	121163.000	0.09890	100	242138.000	0.09850	200	516538.000	0.1015
Bromodichloromethane	50.0	351907.000	0.2873	100	708435.000	0.2882	200	1411416.00	0.2773
Bromomethane	50.0	137667.000	0.1124	100	276300.000	0.1124	200	605630.000	0.1190
Carbon Disulfide	50.0	778212.000	0.6353	100	1494051.00	0.6077	200	3139388.00	0.6168
Carbon Tetrachloride	50.0	448201.000	0.3659	100	831411.000	0.3382	200	1647718.00	0.3237

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Column ID: F

Analyte	WG284610-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1,2-Tetrachloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA
2-Butanone	300	305648.000	0.03830
2-Chloroethyl Vinyl Ether	NA	NA	NA
2-Chlorotoluene	NA	NA	NA
2-Hexanone	300	503386.000	0.08310
4-Chlorotoluene	NA	NA	NA
4-Methyl-2-Pentanone	300	326063.000	0.04090
Acetone	300	193388.000	0.02430
Benzene	NA	NA	NA
Bromobenzene	NA	NA	NA
Bromochloromethane	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA

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Analyte	WG284610-02			WG284610-03			WG284610-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	2593.00000	0.1109
Dibromochloromethane	NA	NA	NA	0.400	1547.00000	0.2166	1.00	3935.00000	0.2213
Dibromomethane	NA	NA	NA	0.400	715.000000	0.07520	1.00	1948.00000	0.08330
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	5461.00000	0.2335
Hexachlorobutadiene	NA	NA	NA	0.400	1034.00000	0.3185	1.00	2820.00000	0.3563
Isopropylbenzene	NA	NA	NA	NA	NA	NA	1.00	22445.00000	1.262
Methylene Chloride	NA	NA	NA	0.400	3871.00000	0.4071	1.00	5928.00000	0.2535
Naphthalene	NA	NA	NA	NA	NA	NA	1.00	4200.00000	0.5307
Styrene	NA	NA	NA	NA	NA	NA	1.00	11853.0000	0.6666
Tetrachloroethene	NA	NA	NA	0.400	1914.00000	0.2680	1.00	5757.00000	0.3238
Trichloroethene	NA	NA	NA	0.400	2026.00000	0.2131	1.00	5152.00000	0.2203
Trichlorofluoromethane	NA	NA	NA	0.400	1993.00000	0.2096	1.00	7662.00000	0.3276
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	1736.00000	0.1826	1.00	4041.00000	0.1728
cis-1,3-Dichloropropene	NA	NA	NA	0.400	2216.00000	0.2330	1.00	6039.00000	0.2582
m-,p-Xylene	NA	NA	NA	0.800	6620.00000	0.4635	2.00	16939.0000	0.4763
n-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	11137.0000	1.407
n-Propylbenzene	NA	NA	NA	NA	NA	NA	1.00	22494.0000	2.842
o-Xylene	NA	NA	NA	NA	NA	NA	1.00	7716.00000	0.4339
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	1.00	14344.0000	1.812
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	19489.0000	2.462
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	3282.00000	0.4147
trans-1,2-Dichloroethene	NA	NA	NA	0.400	1289.00000	0.1356	1.00	3613.00000	0.1545
trans-1,3-Dichloropropene	NA	NA	NA	0.400	1790.00000	0.2507	1.00	5266.00000	0.2962

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Analytical Method: 8260B

Instrument ID: HPMS14
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Column ID: F

Analyte	WG284610-05			WG284610-06			WG284610-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	2.00	4587.00000	0.1005	5.00	14234.0000	0.1219	20.0	56992.0000	0.1195
Dibromochloromethane	2.00	7523.00000	0.2146	5.00	23496.0000	0.2682	20.0	103829.000	0.2893
Dibromomethane	2.00	3433.00000	0.07520	5.00	11398.0000	0.09760	20.0	48494.0000	0.1017
Dichlorodifluoromethane	2.00	9142.00000	0.2002	5.00	23065.0000	0.1975	20.0	103731.000	0.2176
Hexachlorobutadiene	2.00	5175.00000	0.3277	5.00	14698.0000	0.3718	20.0	60971.0000	0.3744
Isopropylbenzene	2.00	40637.0000	1.159	5.00	118752.000	1.355	20.0	501786.000	1.398
Methylene Chloride	2.00	8809.00000	0.1929	5.00	22576.0000	0.1934	20.0	84033.0000	0.1762
Naphthalene	2.00	7671.00000	0.4858	5.00	22015.0000	0.5570	20.0	97429.0000	0.5983
Styrene	2.00	22803.0000	0.6504	5.00	70401.0000	0.8035	20.0	303962.000	0.8470
Tetrachloroethene	2.00	9928.00000	0.2832	5.00	28148.0000	0.3213	20.0	118739.000	0.3309
Trichloroethene	2.00	8874.00000	0.1943	5.00	27472.0000	0.2353	20.0	116832.000	0.2450
Trichlorofluoromethane	2.00	12515.0000	0.2741	5.00	36910.0000	0.3161	20.0	175084.000	0.3672
Vinyl Acetate	2.00	6740.00000	0.1476	5.00	20678.0000	0.1771	20.0	92314.0000	0.1936
cis-1,2-Dichloroethene	2.00	6979.00000	0.1528	5.00	23587.0000	0.2020	20.0	98573.0000	0.2067
cis-1,3-Dichloropropene	2.00	10740.0000	0.2352	5.00	35920.0000	0.3076	20.0	155713.000	0.3266
m-,p-Xylene	4.00	31164.0000	0.4444	10.0	89068.0000	0.5083	40.0	378639.000	0.5275
n-Butylbenzene	2.00	20594.0000	1.304	5.00	57139.0000	1.446	20.0	252759.000	1.552
n-Propylbenzene	2.00	41800.0000	2.647	5.00	120964.000	3.060	20.0	522068.000	3.206
o-Xylene	2.00	14317.0000	0.4083	5.00	42327.0000	0.4831	20.0	182072.000	0.5073
p-Isopropyltoluene	2.00	27214.0000	1.723	5.00	76995.0000	1.948	20.0	336424.000	2.066
sec-Butylbenzene	2.00	36163.0000	2.290	5.00	101162.000	2.559	20.0	434629.000	2.669
tert-Butylbenzene	2.00	6558.00000	0.4153	5.00	18027.0000	0.4561	20.0	75672.0000	0.4647
trans-1,2-Dichloroethene	2.00	6497.00000	0.1423	5.00	21557.0000	0.1846	20.0	89370.0000	0.1874
trans-1,3-Dichloropropene	2.00	9728.00000	0.2775	5.00	31756.0000	0.3624	20.0	139068.000	0.3875

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Analytical Method: 8260BInstrument ID: HPMS14
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Column ID: F

Analyte	WG284610-08			WG284610-09			WG284610-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	50.0	144845.000	0.1182	100	268816.000	0.1093	200	537939.000	0.1057
Dibromochloromethane	50.0	247523.000	0.2655	100	515224.000	0.2661	200	993969.000	0.2526
Dibromomethane	50.0	111957.000	0.09140	100	235967.000	0.09600	200	439761.000	0.08640
Dichlorodifluoromethane	50.0	309250.000	0.2524	100	586471.000	0.2386	NA	NA	NA
Hexachlorobutadiene	50.0	171120.000	0.4015	100	374217.000	0.3946	200	720052.000	0.3624
Isopropylbenzene	50.0	1294122.00	1.388	100	2569300.00	1.327	200	4835114.00	1.229
Methylene Chloride	50.0	201919.000	0.1648	100	404347.000	0.1645	200	831626.000	0.1634
Naphthalene	50.0	242594.000	0.5692	100	589696.000	0.6218	200	1260867.00	0.6346
Styrene	50.0	760280.000	0.8154	100	1568673.00	0.8102	200	3012376.00	0.7654
Tetrachloroethene	50.0	312232.000	0.3349	100	624909.000	0.3228	200	1170547.00	0.2974
Trichloroethene	50.0	295855.000	0.2415	100	576103.000	0.2343	200	1165615.00	0.2290
Trichlorofluoromethane	50.0	529452.000	0.4322	100	1006917.00	0.4096	200	1838053.00	0.3611
Vinyl Acetate	50.0	178029.000	0.1453	100	372704.000	0.1516	200	629229.000	0.1236
cis-1,2-Dichloroethene	50.0	253728.000	0.2071	100	514579.000	0.2093	200	1081872.00	0.2125
cis-1,3-Dichloropropene	50.0	366381.000	0.2991	100	743444.000	0.3024	200	1480377.00	0.2908
m-, p-Xylene	100	949719.000	0.5093	200	1858364.00	0.4799	400	3303022.00	0.4196
n-Butylbenzene	50.0	713242.000	1.673	100	1541166.00	1.625	200	3082612.00	1.552
n-Propylbenzene	50.0	1385485.00	3.251	100	2805649.00	2.959	200	5440145.00	2.738
o-Xylene	50.0	460191.000	0.4935	100	935930.000	0.4834	200	1801112.00	0.4577
p-Isopropyltoluene	50.0	931227.000	2.185	100	1973609.00	2.081	200	3896132.00	1.961
sec-Butylbenzene	50.0	1195118.00	2.804	100	2491796.00	2.628	200	4838985.00	2.436
tert-Butylbenzene	50.0	202569.000	0.4753	100	420038.000	0.4429	200	827996.000	0.4168
trans-1,2-Dichloroethene	50.0	238562.000	0.1947	100	478227.000	0.1945	200	1007546.00	0.1979
trans-1,3-Dichloropropene	50.0	328154.000	0.3519	100	672100.000	0.3471	200	1312157.00	0.3334

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Column ID: F

Analyte	WG284610-11		
	CONC	RESP	RF
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Dibromomethane	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA
Isopropylbenzene	NA	NA	NA
Methylene Chloride	NA	NA	NA
Naphthalene	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA
Vinyl Acetate	300	0	0
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-, p-Xylene	NA	NA	NA
n-Butylbenzene	NA	NA	NA
n-Propylbenzene	NA	NA	NA
o-Xylene	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA
sec-Butylbenzene	NA	NA	NA
tert-Butylbenzene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA

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Login Number: L08100887
Analytical Method: 8260BInstrument ID: HPMS6
Initial Calibration Date: 28-OCT-08 21:12
Column ID: F

Analyte	WG286204-02			WG286204-03			WG286204-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	6318.00000	0.2741	1.00	27483.0000	0.4821
1,2-Dichloropropane	NA	NA	NA	0.400	3880.00000	0.1683	1.00	13534.0000	0.2374
Chloroform	0.300	8080.00000	0.4430	0.400	7513.00000	0.3260	1.00	26901.0000	0.4719
Ethylbenzene	NA	NA	NA	0.400	4316.00000	0.2284	1.00	17974.0000	0.3874
Toluene	NA	NA	NA	0.400	12687.0000	0.6713	1.00	48001.0000	1.035
Vinyl Chloride	NA	NA	NA	NA	NA	NA	1.00	16062.0000	0.2818
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	3468.00000	0.2837	1.00	9598.00000	0.3203
1,1-Dichloroethane	NA	NA	NA	0.400	8475.00000	0.3677	1.00	30780.0000	0.5399
Bromoform	NA	NA	NA	NA	NA	NA	1.00	6236.00000	0.1344
Chlorobenzene	NA	NA	NA	0.400	11565.0000	0.6119	1.00	37817.0000	0.8151
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	18267.0000	0.3204
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	3904.00000	0.2066	1.00	12564.0000	0.2708
1,1,1-Trichloroethane	NA	NA	NA	0.400	6179.00000	0.2681	1.00	24330.0000	0.4268
1,1,2-Trichloroethane	NA	NA	NA	0.400	2906.00000	0.1538	1.00	8436.00000	0.1818
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	16992.0000	0.2981
1,2,3-Trichlorobenzene	0.300	5614.00000	0.6034	0.400	6437.00000	0.5265	1.00	19252.0000	0.6425
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	3601.00000	0.1202
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	6386.00000	0.5224	1.00	21532.0000	0.7186
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	1.00	53917.0000	1.800
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	0.400	2677.00000	0.1416	1.00	8627.00000	0.1860
1,2-Dichlorobenzene	0.300	8929.00000	0.9597	0.400	9702.00000	0.7936	1.00	32314.0000	1.079
1,2-Dichloroethane	NA	NA	NA	0.400	7074.00000	0.3069	1.00	24466.0000	0.4292
1,3,5-Trimethylbenzene	NA	NA	NA	0.400	12335.0000	1.009	1.00	48879.0000	1.631
1,3-Dichlorobenzene	NA	NA	NA	0.400	10496.0000	0.8586	1.00	34015.0000	1.135
1,3-Dichloropropane	NA	NA	NA	0.400	4712.00000	0.2493	1.00	14505.0000	0.3127
1,4-Dichlorobenzene	0.300	12276.0000	1.319	0.400	11919.0000	0.9750	1.00	38101.0000	1.272
2,2-Dichloropropane	NA	NA	NA	0.400	4992.00000	0.2166	1.00	20906.0000	0.3667
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	0.400	14167.0000	1.159	1.00	53717.0000	1.793
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	13538.0000	1.107	1.00	46747.0000	1.560
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	12693.0000	0.5507	1.00	43367.0000	0.7607
Bromobenzene	0.300	4465.00000	0.4799	0.400	4567.00000	0.3736	1.00	16698.0000	0.5573
Bromochloromethane	NA	NA	NA	0.400	2591.00000	0.1124	1.00	7344.00000	0.1288
Bromodichloromethane	NA	NA	NA	0.400	5123.00000	0.2223	1.00	16423.0000	0.2881
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	6280.00000	0.1102
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	37806.0000	0.6632
Carbon Tetrachloride	NA	NA	NA	0.400	4839.00000	0.2100	1.00	20850.0000	0.3657

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Analyte	WG286204-05			WG286204-06			WG286204-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	48512.0000	0.4169	5.00	119247.000	0.4082	20.0	556785.000	0.4503
1,2-Dichloropropane	2.00	25927.0000	0.2228	5.00	64422.0000	0.2205	20.0	283871.000	0.2296
Chloroform	2.00	47399.0000	0.4074	5.00	114895.000	0.3933	20.0	518107.000	0.4190
Ethylbenzene	2.00	34698.0000	0.3704	5.00	82681.0000	0.3499	20.0	377250.000	0.3732
Toluene	2.00	88029.0000	0.9396	5.00	221802.000	0.9387	20.0	1013620.00	1.003
Vinyl Chloride	2.00	28057.0000	0.2411	5.00	63342.0000	0.2168	20.0	267483.000	0.2163
1,1,2,2-Tetrachloroethane	2.00	18240.0000	0.3005	5.00	45157.0000	0.2875	20.0	204503.000	0.3027
1,1-Dichloroethane	2.00	55810.0000	0.4797	5.00	137540.000	0.4708	20.0	617625.000	0.4995
Bromoform	2.00	12790.0000	0.1365	5.00	32723.0000	0.1385	20.0	159883.000	0.1582
Chlorobenzene	2.00	69194.0000	0.7386	5.00	168049.000	0.7112	20.0	745548.000	0.7376
Chloromethane	2.00	31796.0000	0.2733	5.00	75339.0000	0.2579	20.0	328877.000	0.2660
1,1,1,2-Tetrachloroethane	2.00	25105.0000	0.2680	5.00	63054.0000	0.2668	20.0	285640.000	0.2826
1,1,1-Trichloroethane	2.00	42639.0000	0.3665	5.00	109076.000	0.3734	20.0	493467.000	0.3991
1,1,2-Trichloroethane	2.00	16481.0000	0.1759	5.00	38132.0000	0.1614	20.0	170989.000	0.1692
1,1-Dichloropropene	2.00	29375.0000	0.2525	5.00	75189.0000	0.2574	20.0	357381.000	0.2890
1,2,3-Trichlorobenzene	2.00	34150.0000	0.5626	5.00	89465.0000	0.5695	20.0	403467.000	0.5972
1,2,3-Trichloropropane	2.00	6261.00000	0.1031	5.00	15242.0000	0.09700	20.0	68773.0000	0.1018
1,2,4-Trichlorobenzene	2.00	39939.0000	0.6580	5.00	103717.000	0.6603	20.0	474104.000	0.7018
1,2,4-Trimethylbenzene	2.00	102403.000	1.687	5.00	270826.000	1.724	20.0	1248561.00	1.848
1,2-Dibromo-3-Chloropropane	2.00	3627.00000	0.05980	5.00	9589.00000	0.06100	20.0	47821.0000	0.07080
1,2-Dibromoethane	2.00	15049.0000	0.1606	5.00	37860.0000	0.1602	20.0	177887.000	0.1760
1,2-Dichlorobenzene	2.00	60671.0000	0.9995	5.00	152995.000	0.9740	20.0	676867.000	1.002
1,2-Dichloroethane	2.00	45130.0000	0.3879	5.00	109673.000	0.3754	20.0	477881.000	0.3865
1,3,5-Trimethylbenzene	2.00	95483.0000	1.573	5.00	248897.000	1.585	20.0	1173606.00	1.737
1,3-Dichlorobenzene	2.00	63640.0000	1.048	5.00	165089.000	1.051	20.0	740322.000	1.096
1,3-Dichloropropane	2.00	26206.0000	0.2797	5.00	67902.0000	0.2874	20.0	302830.000	0.2996
1,4-Dichlorobenzene	2.00	69062.0000	1.138	5.00	174231.000	1.109	20.0	766760.000	1.135
2,2-Dichloropropane	2.00	39147.0000	0.3364	5.00	97828.0000	0.3349	20.0	445133.000	0.3600
2-Butanone	NA	NA	NA	5.00	20194.0000	0.06910	20.0	75959.0000	0.06140
2-Chloroethyl Vinyl Ether	2.00	9128.00000	0.07850	5.00	25269.0000	0.08650	20.0	122112.000	0.09880
2-Chlorotoluene	2.00	89543.0000	1.475	5.00	222939.000	1.419	20.0	1061811.00	1.572
2-Hexanone	NA	NA	NA	5.00	22703.0000	0.09610	20.0	115637.000	0.1144
4-Chlorotoluene	2.00	96837.0000	1.595	5.00	250005.000	1.592	20.0	1089927.00	1.613
4-Methyl-2-Pentanone	NA	NA	NA	5.00	13534.0000	0.04630	20.0	72101.0000	0.05830
Acetone	NA	NA	NA	5.00	13454.0000	0.04610	20.0	59815.0000	0.04840
Benzene	2.00	83672.0000	0.7191	5.00	206735.000	0.7077	20.0	901742.000	0.7293
Bromobenzene	2.00	29930.0000	0.4931	5.00	78089.0000	0.4971	20.0	347300.000	0.5141
Bromochloromethane	2.00	14623.0000	0.1257	5.00	35431.0000	0.1213	20.0	158061.000	0.1278
Bromodichloromethane	2.00	32483.0000	0.2792	5.00	81280.0000	0.2782	20.0	367372.000	0.2971
Bromomethane	2.00	11919.0000	0.1024	5.00	35823.0000	0.1226	20.0	177318.000	0.1434
Carbon Disulfide	2.00	68704.0000	0.5905	5.00	180765.000	0.6188	20.0	774991.000	0.6268
Carbon Tetrachloride	2.00	40173.0000	0.3453	5.00	98115.0000	0.3359	20.0	454761.000	0.3678

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Analyte	WG286204-08			WG286204-09			WG286204-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	1401757.00	0.4287	100	2932418.00	0.4204	200	5940205.00	0.4011
1,2-Dichloropropane	50.0	763364.000	0.2335	100	1628734.00	0.2335	200	3380598.00	0.2283
Chloroform	50.0	1358607.00	0.4155	100	2889606.00	0.4143	200	5803391.00	0.3919
Ethylbenzene	50.0	993929.000	0.3720	100	2174344.00	0.3704	200	4471362.00	0.3495
Toluene	50.0	2631505.00	0.9849	100	5581639.00	0.9508	200	9959209.00	0.7784
Vinyl Chloride	50.0	616569.000	0.1886	100	1143199.00	0.1639	NA	NA	NA
1,1,2,2-Tetrachloroethane	50.0	560311.000	0.3089	100	1282999.00	0.3300	200	2478954.00	0.3079
1,1-Dichloroethane	50.0	1614287.00	0.4937	100	3410611.00	0.4890	200	6826331.00	0.4610
Bromoform	50.0	454843.000	0.1702	100	1027040.00	0.1750	200	2087677.00	0.1632
Chlorobenzene	50.0	1977636.00	0.7402	100	4287902.00	0.7304	200	8161035.00	0.6379
Chloromethane	50.0	770356.000	0.2356	100	1652729.00	0.2370	200	3442158.00	0.2325
1,1,1,2-Tetrachloroethane	50.0	768837.000	0.2878	100	1708390.00	0.2910	200	3560287.00	0.2783
1,1,1-Trichloroethane	50.0	1271787.00	0.3889	100	2705437.00	0.3879	200	5649031.00	0.3815
1,1,2-Trichloroethane	50.0	464508.000	0.1739	100	1039207.00	0.1770	200	2138281.00	0.1671
1,1-Dichloropropene	50.0	917520.000	0.2806	100	1930957.00	0.2769	200	3964558.00	0.2677
1,2,3-Trichlorobenzene	50.0	1071159.00	0.5904	100	2273725.00	0.5848	200	4292775.00	0.5331
1,2,3-Trichloropropane	50.0	194841.000	0.1074	100	429453.000	0.1105	200	842956.000	0.1047
1,2,4-Trichlorobenzene	50.0	1246489.00	0.6871	100	2663705.00	0.6851	200	5080220.00	0.6309
1,2,4-Trimethylbenzene	50.0	3307402.00	1.823	100	6674744.00	1.717	200	10779312.0	1.339
1,2-Dibromo-3-Chloropropane	50.0	127727.000	0.07040	100	278844.000	0.07170	200	520096.000	0.06460
1,2-Dibromoethane	50.0	491413.000	0.1839	100	1099875.00	0.1874	200	2252466.00	0.1760
1,2-Dichlorobenzene	50.0	1798540.00	0.9914	100	3859063.00	0.9926	200	7097174.00	0.8814
1,2-Dichloroethane	50.0	1234714.00	0.3776	100	2560842.00	0.3672	200	4950839.00	0.3343
1,3,5-Trimethylbenzene	50.0	3101785.00	1.710	100	6360259.00	1.636	200	10662553.0	1.324
1,3-Dichlorobenzene	50.0	1960303.00	1.081	100	4169841.00	1.073	200	7709589.00	0.9575
1,3-Dichloropropane	50.0	819295.000	0.3066	100	1814332.00	0.3091	200	3713554.00	0.2902
1,4-Dichlorobenzene	50.0	2043010.00	1.126	100	4279345.00	1.101	200	7718416.00	0.9586
2,2-Dichloropropane	50.0	1139004.00	0.3483	100	2465912.00	0.3536	200	5082856.00	0.3432
2-Butanone	50.0	213511.000	0.06530	100	484742.000	0.06950	200	961087.000	0.06490
2-Chloroethyl Vinyl Ether	50.0	351405.000	0.1075	100	795619.000	0.1141	200	1613973.00	0.1090
2-Chlorotoluene	50.0	2935770.00	1.618	100	5614180.00	1.444	200	10464532.0	1.300
2-Hexanone	50.0	334888.000	0.1253	100	779068.000	0.1327	200	1481926.00	0.1158
4-Chlorotoluene	50.0	2723867.00	1.501	100	5877951.00	1.512	200	8856943.00	1.100
4-Methyl-2-Pentanone	50.0	207388.000	0.06340	100	479206.000	0.06870	200	969893.000	0.06550
Acetone	50.0	148301.000	0.04540	100	319879.000	0.04590	200	649975.000	0.04390
Benzene	50.0	2337723.00	0.7149	100	4980178.00	0.7140	200	9348634.00	0.6313
Bromobenzene	50.0	929578.000	0.5124	100	2033242.00	0.5230	200	4171261.00	0.5180
Bromochloromethane	50.0	421833.000	0.1290	100	899325.000	0.1289	200	1844727.00	0.1246
Bromodichloromethane	50.0	968411.000	0.2962	100	2098453.00	0.3009	200	4298086.00	0.2903
Bromomethane	50.0	514734.000	0.1574	100	1184097.00	0.1698	NA	NA	NA
Carbon Disulfide	50.0	2079366.00	0.6359	100	4313427.00	0.6184	200	8679229.00	0.5861
Carbon Tetrachloride	50.0	1148444.00	0.3512	100	2424780.00	0.3477	200	5074276.00	0.3427

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Analyte	WG286204-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1,2-Tetrachloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA
2-Butanone	300	1484832.00	0.06610
2-Chloroethyl Vinyl Ether	NA	NA	NA
2-Chlorotoluene	NA	NA	NA
2-Hexanone	300	2419922.00	0.1288
4-Chlorotoluene	NA	NA	NA
4-Methyl-2-Pentanone	300	1517087.00	0.06760
Acetone	300	907068.000	0.04040
Benzene	NA	NA	NA
Bromobenzene	NA	NA	NA
Bromochloromethane	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA

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Analyte	WG286204-02			WG286204-03			WG286204-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	10346.0000	0.1815
Dibromochloromethane	NA	NA	NA	0.400	3657.00000	0.1935	1.00	11262.0000	0.2428
Dibromomethane	NA	NA	NA	0.400	1974.00000	0.08570	1.00	7022.00000	0.1232
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	16506.0000	0.2895
Hexachlorobutadiene	NA	NA	NA	0.400	2995.00000	0.2450	1.00	9981.00000	0.3331
Isopropylbenzene	NA	NA	NA	0.400	13479.0000	0.7132	1.00	56247.0000	1.212
Methylene Chloride	NA	NA	NA	0.400	11381.0000	0.4938	1.00	19399.0000	0.3403
Naphthalene	NA	NA	NA	0.400	10787.0000	0.8824	1.00	33139.0000	1.106
Styrene	NA	NA	NA	0.400	9213.00000	0.4875	1.00	33884.0000	0.7304
Tetrachloroethene	NA	NA	NA	0.400	3273.00000	0.1732	1.00	14532.0000	0.3132
Trichloroethene	NA	NA	NA	0.400	3187.00000	0.1383	1.00	12824.0000	0.2250
Trichlorofluoromethane	NA	NA	NA	0.400	5486.00000	0.2380	1.00	28860.0000	0.5063
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	3442.00000	0.1493	1.00	12275.0000	0.2153
cis-1,3-Dichloropropene	NA	NA	NA	0.400	5004.00000	0.2171	1.00	16070.0000	0.2819
m-,p-Xylene	NA	NA	NA	0.800	11751.0000	0.3109	2.00	46133.0000	0.4972
n-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	56276.0000	1.878
n-Propylbenzene	NA	NA	NA	0.400	18161.0000	1.486	1.00	71036.0000	2.371
o-Xylene	NA	NA	NA	0.400	5521.00000	0.2921	1.00	20062.0000	0.4324
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	1.00	56833.0000	1.897
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	62510.0000	2.086
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	11566.0000	0.3860
trans-1,2-Dichloroethene	NA	NA	NA	0.400	3372.00000	0.1463	1.00	12190.0000	0.2138
trans-1,3-Dichloropropene	NA	NA	NA	0.400	4211.00000	0.2228	1.00	14257.0000	0.3073

Login Number: L08100887
Analytical Method: 8260B

Instrument ID: HPMS6
Initial Calibration Date: 28-OCT-08 21:12
Column ID: F

Analyte	WG286204-05			WG286204-06			WG286204-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	2.00	18938.0000	0.1628	5.00	48409.0000	0.1657	20.0	217153.000	0.1756
Dibromochloromethane	2.00	21938.0000	0.2342	5.00	54846.0000	0.2321	20.0	255772.000	0.2530
Dibromomethane	2.00	13205.0000	0.1135	5.00	31644.0000	0.1083	20.0	140682.000	0.1138
Dichlorodifluoromethane	2.00	29065.0000	0.2498	5.00	68745.0000	0.2353	20.0	305342.000	0.2469
Hexachlorobutadiene	2.00	17693.0000	0.2915	5.00	41935.0000	0.2670	20.0	192603.000	0.2851
Isopropylbenzene	2.00	101679.000	1.085	5.00	276527.000	1.170	20.0	1285890.00	1.272
Methylene Chloride	2.00	27181.0000	0.2336	5.00	56461.0000	0.1933	20.0	232413.000	0.1880
Naphthalene	2.00	63413.0000	1.045	5.00	172270.000	1.097	20.0	820021.000	1.214
Styrene	2.00	65623.0000	0.7005	5.00	174660.000	0.7391	20.0	821342.000	0.8125
Tetrachloroethene	2.00	25147.0000	0.2684	5.00	61945.0000	0.2621	20.0	281337.000	0.2783
Trichloroethene	2.00	23539.0000	0.2023	5.00	57558.0000	0.1970	20.0	266066.000	0.2152
Trichlorofluoromethane	2.00	53371.0000	0.4587	5.00	125269.000	0.4288	20.0	577242.000	0.4668
Vinyl Acetate	NA	NA	NA	5.00	90738.0000	0.3106	20.0	376274.000	0.3043
cis-1,2-Dichloroethene	2.00	23129.0000	0.1988	5.00	59389.0000	0.2033	20.0	275246.000	0.2226
cis-1,3-Dichloropropene	2.00	30566.0000	0.2627	5.00	77447.0000	0.2651	20.0	366521.000	0.2964
m-,p-Xylene	4.00	81597.0000	0.4355	10.0	212318.000	0.4493	40.0	975622.000	0.4826
n-Butylbenzene	2.00	99504.0000	1.639	5.00	267876.000	1.705	20.0	1229301.00	1.820
n-Propylbenzene	2.00	137688.000	2.268	5.00	361044.000	2.298	20.0	1663802.00	2.463
o-Xylene	2.00	39883.0000	0.4257	5.00	103104.000	0.4363	20.0	471195.000	0.4661
p-Isopropyltoluene	2.00	106844.000	1.760	5.00	281461.000	1.792	20.0	1340306.00	1.984
sec-Butylbenzene	2.00	119155.000	1.963	5.00	309887.000	1.973	20.0	1444398.00	2.138
tert-Butylbenzene	2.00	22505.0000	0.3708	5.00	59021.0000	0.3757	20.0	262215.000	0.3881
trans-1,2-Dichloroethene	2.00	22264.0000	0.1913	5.00	54581.0000	0.1868	20.0	255557.000	0.2067
trans-1,3-Dichloropropene	2.00	29194.0000	0.3116	5.00	76102.0000	0.3221	20.0	358985.000	0.3551

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Analytical Method: 8260B

Instrument ID: HPMS6
Initial Calibration Date: 28-OCT-08 21:12
Column ID: F

Analyte	WG286204-08			WG286204-09			WG286204-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	50.0	586938.000	0.1795	100	1240986.00	0.1779	200	2502091.00	0.1690
Dibromochloromethane	50.0	711749.000	0.2664	100	1590702.00	0.2710	200	3305859.00	0.2584
Dibromomethane	50.0	374381.000	0.1145	100	814797.000	0.1168	200	1646886.00	0.1112
Dichlorodifluoromethane	50.0	724609.000	0.2216	100	1438486.00	0.2062	200	2779483.00	0.1877
Hexachlorobutadiene	50.0	489725.000	0.2699	100	1065653.00	0.2741	200	2189959.00	0.2720
Isopropylbenzene	50.0	3352348.00	1.255	100	6857511.00	1.168	200	11517538.0	0.9002
Methylene Chloride	50.0	631802.000	0.1932	100	1387265.00	0.1989	200	2885516.00	0.1949
Naphthalene	50.0	2250622.00	1.241	100	4727163.00	1.216	200	7987909.00	0.9920
Styrene	50.0	2217041.00	0.8298	100	4781846.00	0.8146	200	8815301.00	0.6890
Tetrachloroethene	50.0	702550.000	0.2629	100	1523749.00	0.2596	200	3149697.00	0.2462
Trichloroethene	50.0	696153.000	0.2129	100	1501475.00	0.2153	200	3133787.00	0.2116
Trichlorofluoromethane	50.0	1401902.00	0.4287	100	2961706.00	0.4246	200	5953892.00	0.4021
Vinyl Acetate	50.0	968633.000	0.2962	100	1977467.00	0.2835	200	3958079.00	0.2673
cis-1,2-Dichloroethene	50.0	731099.000	0.2236	100	1582237.00	0.2269	200	3237814.00	0.2187
cis-1,3-Dichloropropene	50.0	1003316.00	0.3068	100	2209915.00	0.3169	200	4532163.00	0.3061
m-,p-Xylene	100	2565240.00	0.4801	200	5352233.00	0.4559	400	9607876.00	0.3755
n-Butylbenzene	50.0	3195296.00	1.761	100	6399037.00	1.646	200	10332808.0	1.283
n-Propylbenzene	50.0	4289191.00	2.364	100	8210343.00	2.112	200	12625278.0	1.568
o-Xylene	50.0	1255300.00	0.4698	100	2714205.00	0.4623	200	5582450.00	0.4363
p-Isopropyltoluene	50.0	3524332.00	1.943	100	7129046.00	1.834	200	11422478.0	1.419
sec-Butylbenzene	50.0	3740798.00	2.062	100	7511711.00	1.932	200	12110563.0	1.504
tert-Butylbenzene	50.0	691803.000	0.3813	100	1491555.00	0.3836	200	3121538.00	0.3877
trans-1,2-Dichloroethene	50.0	669792.000	0.2048	100	1445699.00	0.2073	200	2988288.00	0.2018
trans-1,3-Dichloropropene	50.0	992468.000	0.3715	100	2168703.00	0.3694	200	4350150.00	0.3400

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Login Number: L08100887
Analytical Method: 8260B

Instrument ID: HPMS6
Initial Calibration Date: 28-OCT-08 21:12
Column ID: F

Analyte	WG286204-11		
	CONC	RESP	RF
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Dibromomethane	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA
Isopropylbenzene	NA	NA	NA
Methylene Chloride	NA	NA	NA
Naphthalene	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA
Vinyl Acetate	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-, p-Xylene	NA	NA	NA
n-Butylbenzene	NA	NA	NA
n-Propylbenzene	NA	NA	NA
o-Xylene	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA
sec-Butylbenzene	NA	NA	NA
tert-Butylbenzene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA

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Login Number: L08100887
Analytical Method: 8260BInstrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte	WG286725-03			WG286725-04			WG286725-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	0.400	4099.00000	0.3344	1.00	12917.00000	0.4198	2.00	25670.00000	0.4127
1,2-Dichloropropane	0.400	2925.00000	0.2386	1.00	7494.00000	0.2435	2.00	15782.00000	0.2537
Chloroform	0.400	6185.00000	0.5046	1.00	14857.00000	0.4828	2.00	28965.00000	0.4657
Ethylbenzene	0.400	3801.00000	0.4176	1.00	10989.00000	0.4789	2.00	22518.00000	0.4930
Toluene	0.400	10907.00000	1.198	1.00	30649.00000	1.336	2.00	62367.00000	1.365
Vinyl Chloride	0.400	2196.00000	0.1792	1.00	6051.00000	0.1966	2.00	12454.00000	0.2002
1,1,2,2-Tetrachloroethane	0.400	2041.00000	0.4126	1.00	5308.00000	0.4271	2.00	10894.00000	0.4387
1,1-Dichloroethane	0.400	5248.00000	0.4282	1.00	15219.00000	0.4946	2.00	30178.00000	0.4852
Bromoform	NA	NA	NA	1.00	3287.00000	0.1433	2.00	6394.00000	0.1400
Chlorobenzene	0.400	7418.00000	0.8149	1.00	20645.00000	0.8997	2.00	39446.00000	0.8636
Chloromethane	NA	NA	NA	1.00	9025.00000	0.2933	2.00	16201.00000	0.2605
1,1,1,2-Tetrachloroethane	0.400	2561.00000	0.2813	1.00	6551.00000	0.2855	2.00	12582.00000	0.2755
1,1,1-Trichloroethane	0.400	4483.00000	0.3658	1.00	13462.00000	0.4375	2.00	25215.00000	0.4054
1,1,2-Trichloroethane	0.400	1192.00000	0.1309	1.00	4824.00000	0.2102	2.00	9909.00000	0.2169
1,1-Dichloropropene	NA	NA	NA	1.00	11062.00000	0.3595	2.00	21955.00000	0.3530
1,2,3-Trichlorobenzene	0.400	3029.00000	0.6124	1.00	7389.00000	0.5945	2.00	13357.00000	0.5379
1,2,3-Trichloropropane	NA	NA	NA	1.00	1597.00000	0.1285	2.00	3198.00000	0.1288
1,2,4-Trichlorobenzene	0.400	3366.00000	0.6805	1.00	8911.00000	0.7170	2.00	18221.00000	0.7338
1,2,4-Trimethylbenzene	NA	NA	NA	1.00	27090.00000	2.180	2.00	54862.00000	2.209
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	2.00	1729.00000	0.06960
1,2-Dibromoethane	0.400	1621.00000	0.1781	1.00	4580.00000	0.1996	2.00	8669.00000	0.1898
1,2-Dichlorobenzene	0.400	4928.00000	0.9963	1.00	13796.00000	1.110	2.00	26434.00000	1.065
1,2-Dichloroethane	0.400	4190.00000	0.3419	1.00	10853.00000	0.3527	2.00	19752.00000	0.3175
1,3,5-Trimethylbenzene	0.400	8557.00000	1.730	1.00	24789.00000	1.995	2.00	51060.00000	2.056
1,3-Dichlorobenzene	0.400	5671.00000	1.147	1.00	15842.00000	1.275	2.00	31838.00000	1.282
1,3-Dichloropropane	0.400	3955.00000	0.4345	1.00	9545.00000	0.4160	2.00	18306.00000	0.4008
1,4-Dichlorobenzene	0.400	6349.00000	1.284	1.00	16230.00000	1.306	2.00	30868.00000	1.243
2,2-Dichloropropane	0.400	4598.00000	0.3751	1.00	13179.00000	0.4283	2.00	25903.00000	0.4164
2-Butanone	NA	NA	NA	1.00	1207.00000	0.03920	2.00	2975.00000	0.04780
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	2.00	4660.00000	0.07490
2-Chlorotoluene	0.400	9958.00000	2.013	1.00	29055.00000	2.338	2.00	57292.00000	2.307
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	0.400	9208.00000	1.862	1.00	23770.00000	1.913	2.00	49275.00000	1.984
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.400	12018.00000	0.9805	1.00	32188.00000	1.046	2.00	66478.00000	1.069
Bromobenzene	0.400	3131.00000	0.6330	1.00	7799.00000	0.6275	2.00	15755.00000	0.6345
Bromochloromethane	0.400	1228.00000	0.1002	1.00	3913.00000	0.1272	2.00	7192.00000	0.1156
Bromodichloromethane	0.400	4129.00000	0.3369	1.00	10386.00000	0.3375	2.00	19650.00000	0.3159
Bromomethane	NA	NA	NA	1.00	5377.00000	0.1747	2.00	10322.00000	0.1659
Carbon Disulfide	NA	NA	NA	1.00	24289.00000	0.7893	2.00	48564.00000	0.7807
Carbon Tetrachloride	0.400	3591.00000	0.2930	1.00	10623.00000	0.3452	2.00	21845.00000	0.3512

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Login Number: L08100887
Analytical Method: 8260BInstrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte	WG286725-06			WG286725-07			WG286725-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	5.00	59600.0000	0.3782	20.0	248615.000	0.3848	50.0	681402.000	0.3883
1,2-Dichloropropane	5.00	37206.0000	0.2361	20.0	158014.000	0.2445	50.0	426713.000	0.2431
Chloroform	5.00	70552.0000	0.4477	20.0	290859.000	0.4501	50.0	789421.000	0.4498
Ethylbenzene	5.00	54155.0000	0.4690	20.0	222823.000	0.4618	50.0	581694.000	0.4465
Toluene	5.00	149538.000	1.295	20.0	627617.000	1.301	50.0	1650134.00	1.267
Vinyl Chloride	5.00	27841.0000	0.1767	20.0	105679.000	0.1635	50.0	264298.000	0.1506
1,1,2,2-Tetrachloroethane	5.00	27883.0000	0.4414	20.0	105483.000	0.4058	50.0	310613.000	0.4197
1,1-Dichloroethane	5.00	72499.0000	0.4601	20.0	296811.000	0.4593	50.0	796859.000	0.4541
Bromoform	5.00	17181.0000	0.1488	20.0	78223.0000	0.1621	50.0	236033.000	0.1812
Chlorobenzene	5.00	94153.0000	0.8154	20.0	393814.000	0.8163	50.0	1024059.00	0.7860
Chloromethane	5.00	35218.0000	0.2235	20.0	130791.000	0.2024	50.0	321513.000	0.1832
1,1,1,2-Tetrachloroethane	5.00	30541.0000	0.2645	20.0	129338.000	0.2681	50.0	354060.000	0.2717
1,1,1-Trichloroethane	5.00	60996.0000	0.3871	20.0	251220.000	0.3888	50.0	694676.000	0.3958
1,1,2-Trichloroethane	5.00	23866.0000	0.2067	20.0	100627.000	0.2086	50.0	271496.000	0.2084
1,1-Dichloropropene	5.00	53053.0000	0.3367	20.0	224237.000	0.3470	50.0	602955.000	0.3436
1,2,3-Trichlorobenzene	5.00	32632.0000	0.5165	20.0	117144.000	0.4507	50.0	415938.000	0.5620
1,2,3-Trichloropropane	5.00	8261.00000	0.1308	20.0	33008.0000	0.1270	50.0	96277.0000	0.1301
1,2,4-Trichlorobenzene	5.00	39717.0000	0.6287	20.0	150521.000	0.5791	50.0	497867.000	0.6726
1,2,4-Trimethylbenzene	5.00	136941.000	2.168	20.0	570289.000	2.194	50.0	1602140.00	2.165
1,2-Dibromo-3-Chloropropane	5.00	4664.00000	0.07380	20.0	18121.0000	0.06970	50.0	59829.0000	0.08080
1,2-Dibromoethane	5.00	23529.0000	0.2038	20.0	99444.0000	0.2061	50.0	279753.000	0.2147
1,2-Dichlorobenzene	5.00	67889.0000	1.075	20.0	268948.000	1.035	50.0	769708.000	1.040
1,2-Dichloroethane	5.00	48395.0000	0.3071	20.0	202865.000	0.3139	50.0	554179.000	0.3158
1,3,5-Trimethylbenzene	5.00	128697.000	2.037	20.0	538208.000	2.071	50.0	1539912.00	2.081
1,3-Dichlorobenzene	5.00	76286.0000	1.208	20.0	303055.000	1.166	50.0	853881.000	1.154
1,3-Dichloropropane	5.00	46092.0000	0.3992	20.0	196502.000	0.4073	50.0	527825.000	0.4051
1,4-Dichlorobenzene	5.00	78103.0000	1.236	20.0	312931.000	1.204	50.0	865469.000	1.169
2,2-Dichloropropane	5.00	60569.0000	0.3844	20.0	253013.000	0.3916	50.0	700339.000	0.3991
2-Butanone	5.00	8553.00000	0.05430	20.0	36119.0000	0.05590	50.0	98683.0000	0.05620
2-Chloroethyl Vinyl Ether	5.00	13891.0000	0.08820	20.0	67074.0000	0.1038	50.0	189239.000	0.1078
2-Chlorotoluene	5.00	140790.000	2.229	20.0	573690.000	2.207	50.0	1618085.00	2.186
2-Hexanone	5.00	5416.00000	0.04690	20.0	26182.0000	0.05430	50.0	78789.0000	0.06050
4-Chlorotoluene	5.00	124362.000	1.969	20.0	514040.000	1.978	50.0	1389294.00	1.877
4-Methyl-2-Pentanone	5.00	6531.00000	0.04140	20.0	28852.0000	0.04470	50.0	84769.0000	0.04830
Acetone	5.00	5992.00000	0.03800	20.0	23830.0000	0.03690	50.0	66593.0000	0.03790
Benzene	5.00	159634.000	1.013	20.0	639757.000	0.9901	50.0	1694055.00	0.9653
Bromobenzene	5.00	38017.0000	0.6018	20.0	160560.000	0.6177	50.0	453762.000	0.6131
Bromochloromethane	5.00	18789.0000	0.1192	20.0	76720.0000	0.1187	50.0	212694.000	0.1212
Bromodichloromethane	5.00	49230.0000	0.3124	20.0	210712.000	0.3261	50.0	580485.000	0.3308
Bromomethane	5.00	25147.0000	0.1596	20.0	109148.000	0.1689	50.0	344966.000	0.1966
Carbon Disulfide	5.00	118143.000	0.7498	20.0	513452.000	0.7946	50.0	1403617.00	0.7998
Carbon Tetrachloride	5.00	49111.0000	0.3117	20.0	205385.000	0.3178	50.0	564845.000	0.3218

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Login Number: L08100887
Analytical Method: 8260BInstrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte	WG286725-09			WG286725-10			WG286725-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	100	1444857.00	0.3955	200	2740468.00	0.3680	NA	NA	NA
1,2-Dichloropropane	100	832830.000	0.2280	200	1551545.00	0.2083	NA	NA	NA
Chloroform	100	1640201.00	0.4490	200	3157794.00	0.4240	NA	NA	NA
Ethylbenzene	100	1123929.00	0.4030	200	2181647.00	0.3741	NA	NA	NA
Toluene	100	3195733.00	1.146	200	5805534.00	0.9956	NA	NA	NA
Vinyl Chloride	100	520737.000	0.1426	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	100	595655.000	0.3825	200	1190732.00	0.3556	NA	NA	NA
1,1-Dichloroethane	100	1638969.00	0.4487	200	3121092.00	0.4191	NA	NA	NA
Bromoform	100	495579.000	0.1777	200	1046431.00	0.1795	NA	NA	NA
Chlorobenzene	100	1991837.00	0.7142	200	3764138.00	0.6455	NA	NA	NA
Chloromethane	100	647616.000	0.1773	200	1421838.00	0.1909	NA	NA	NA
1,1,1,2-Tetrachloroethane	100	719017.000	0.2578	200	1378659.00	0.2364	NA	NA	NA
1,1,1-Trichloroethane	100	1514123.00	0.4145	200	2990511.00	0.4015	NA	NA	NA
1,1,2-Trichloroethane	100	542566.000	0.1945	200	1080428.00	0.1853	NA	NA	NA
1,1-Dichloropropene	100	1265253.00	0.3464	200	2418105.00	0.3247	NA	NA	NA
1,2,3-Trichlorobenzene	100	826235.000	0.5306	200	1646173.00	0.4916	NA	NA	NA
1,2,3-Trichloropropane	100	196445.000	0.1262	200	413521.000	0.1235	NA	NA	NA
1,2,4-Trichlorobenzene	100	996352.000	0.6398	200	1995457.00	0.5960	NA	NA	NA
1,2,4-Trimethylbenzene	100	3244668.00	2.084	200	6077530.00	1.815	NA	NA	NA
1,2-Dibromo-3-Chloropropane	100	123770.000	0.07950	200	269886.000	0.08060	NA	NA	NA
1,2-Dibromoethane	100	558847.000	0.2004	200	1134758.00	0.1946	NA	NA	NA
1,2-Dichlorobenzene	100	1502436.00	0.9648	200	2923975.00	0.8733	NA	NA	NA
1,2-Dichloroethane	100	1124635.00	0.3079	200	2244010.00	0.3013	NA	NA	NA
1,3,5-Trimethylbenzene	100	3133254.00	2.012	200	5930565.00	1.771	NA	NA	NA
1,3-Dichlorobenzene	100	1698447.00	1.091	200	3281716.00	0.9801	NA	NA	NA
1,3-Dichloropropane	100	1048611.00	0.3760	200	2067805.00	0.3546	NA	NA	NA
1,4-Dichlorobenzene	100	1699767.00	1.092	200	3311705.00	0.9891	NA	NA	NA
2,2-Dichloropropane	100	1504590.00	0.4119	200	2956367.00	0.3970	NA	NA	NA
2-Butanone	100	195313.000	0.05350	200	396539.000	0.05320	300	603618.000	0.05300
2-Chloroethyl Vinyl Ether	100	374251.000	0.1025	200	747647.000	0.1004	300	1078755.00	0.09480
2-Chlorotoluene	100	3100615.00	1.991	200	5481470.00	1.637	NA	NA	NA
2-Hexanone	100	161913.000	0.05810	200	340066.000	0.05830	300	492247.000	0.05660
4-Chlorotoluene	100	2826843.00	1.815	200	5421998.00	1.619	NA	NA	NA
4-Methyl-2-Pentanone	100	169997.000	0.04650	200	350470.000	0.04710	300	519701.000	0.04570
Acetone	100	134017.000	0.03670	200	286305.000	0.03840	300	404891.000	0.03560
Benzene	100	3328618.00	0.9112	200	5930513.00	0.7963	NA	NA	NA
Bromobenzene	100	905098.000	0.5812	200	1760211.00	0.5257	NA	NA	NA
Bromochloromethane	100	421706.000	0.1154	200	822999.000	0.1105	NA	NA	NA
Bromodichloromethane	100	1202181.00	0.3291	200	2402472.00	0.3226	NA	NA	NA
Bromomethane	100	695232.000	0.1903	200	1301323.00	0.1747	NA	NA	NA
Carbon Disulfide	100	2816790.00	0.7711	200	4993249.00	0.6705	NA	NA	NA
Carbon Tetrachloride	100	1235249.00	0.3382	200	2501703.00	0.3359	NA	NA	NA

INT_CAL - Modified 03/06/2008
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Report generated 11/26/2008 09:39

Login Number: L08100887
Analytical Method: 8260BInstrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte	WG286725-03			WG286725-04			WG286725-05		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	1.00	5022.00000	0.1632	2.00	11118.0000	0.1787
Dibromochloromethane	0.400	2037.00000	0.2238	1.00	5321.00000	0.2319	2.00	9748.00000	0.2134
Dibromomethane	0.400	1105.00000	0.09020	1.00	3563.00000	0.1158	2.00	6634.00000	0.1067
Dichlorodifluoromethane	NA	NA	NA	1.00	8910.00000	0.2895	2.00	18089.0000	0.2908
Hexachlorobutadiene	0.400	1711.00000	0.3459	1.00	4322.00000	0.3478	2.00	9766.00000	0.3933
Isopropylbenzene	0.400	10219.0000	1.123	1.00	29856.0000	1.301	2.00	62159.0000	1.361
Methylene Chloride	0.400	8138.00000	0.6640	1.00	13412.0000	0.4358	2.00	20606.0000	0.3313
Naphthalene	0.400	5015.00000	1.014	1.00	13972.0000	1.124	2.00	25199.0000	1.015
Styrene	0.400	6647.00000	0.7302	1.00	18319.0000	0.7984	2.00	38196.0000	0.8363
Tetrachloroethene	0.400	2127.00000	0.2337	1.00	5893.00000	0.2568	2.00	11760.0000	0.2575
Trichloroethene	0.400	2316.00000	0.1890	1.00	6566.00000	0.2134	2.00	13181.0000	0.2119
Trichlorofluoromethane	0.400	4688.00000	0.3825	1.00	15390.0000	0.5001	2.00	28239.0000	0.4540
Vinyl Acetate	NA	NA	NA	1.00	9531.00000	0.3097	2.00	19087.0000	0.3069
cis-1,2-Dichloroethene	0.400	2418.00000	0.1973	1.00	7419.00000	0.2411	2.00	16280.0000	0.2617
cis-1,3-Dichloropropene	0.400	4039.00000	0.3295	1.00	11033.0000	0.3585	2.00	20862.0000	0.3354
m-,p-Xylene	0.800	9896.00000	0.5436	2.00	26417.0000	0.5756	4.00	54050.0000	0.5917
n-Butylbenzene	0.400	8069.00000	1.631	1.00	23061.0000	1.856	2.00	46793.0000	1.885
n-Propylbenzene	0.400	13126.0000	2.654	1.00	37521.0000	3.019	2.00	78113.0000	3.146
o-Xylene	0.400	4405.00000	0.4839	1.00	12234.0000	0.5332	2.00	25398.0000	0.5561
p-Isopropyltoluene	NA	NA	NA	1.00	22016.0000	1.772	2.00	46389.0000	1.868
sec-Butylbenzene	NA	NA	NA	1.00	28672.0000	2.307	2.00	59344.0000	2.390
tert-Butylbenzene	NA	NA	NA	1.00	4614.00000	0.3713	2.00	9411.00000	0.3790
trans-1,2-Dichloroethene	0.400	4514.00000	0.3683	1.00	12053.0000	0.3917	2.00	24095.0000	0.3874
trans-1,3-Dichloropropene	NA	NA	NA	1.00	9394.00000	0.4094	2.00	18778.0000	0.4111

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Login Number: L08100887
Analytical Method: 8260B

Instrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte	WG286725-06			WG286725-07			WG286725-08		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	5.00	27821.0000	0.1766	20.0	114097.000	0.1766	50.0	320896.000	0.1828
Dibromochloromethane	5.00	25883.0000	0.2241	20.0	117325.000	0.2432	50.0	333706.000	0.2561
Dibromomethane	5.00	18181.0000	0.1154	20.0	73277.0000	0.1134	50.0	205673.000	0.1172
Dichlorodifluoromethane	5.00	40890.0000	0.2595	20.0	157492.000	0.2437	50.0	419425.000	0.2390
Hexachlorobutadiene	5.00	20477.0000	0.3241	20.0	75404.0000	0.2901	50.0	243550.000	0.3290
Isopropylbenzene	5.00	157190.000	1.361	20.0	655488.000	1.359	50.0	1780624.00	1.367
Methylene Chloride	5.00	41109.0000	0.2609	20.0	157358.000	0.2435	50.0	431678.000	0.2460
Naphthalene	5.00	63669.0000	1.008	20.0	252469.000	0.9713	50.0	849193.000	1.147
Styrene	5.00	103717.000	0.8982	20.0	452207.000	0.9373	50.0	1245826.00	0.9562
Tetrachloroethene	5.00	28002.0000	0.2425	20.0	117900.000	0.2444	50.0	317261.000	0.2435
Trichloroethene	5.00	32170.0000	0.2042	20.0	138756.000	0.2147	50.0	373614.000	0.2129
Trichlorofluoromethane	5.00	63614.0000	0.4037	20.0	252350.000	0.3905	50.0	711620.000	0.4055
Vinyl Acetate	5.00	48707.0000	0.3091	20.0	176603.000	0.2733	50.0	456015.000	0.2598
cis-1,2-Dichloroethene	5.00	39017.0000	0.2476	20.0	164938.000	0.2553	50.0	445151.000	0.2536
cis-1,3-Dichloropropene	5.00	54325.0000	0.3448	20.0	241867.000	0.3743	50.0	663456.000	0.3780
m-,p-Xylene	10.0	135703.000	0.5876	40.0	547511.000	0.5674	100	1444146.00	0.5542
n-Butylbenzene	5.00	116355.000	1.842	20.0	487040.000	1.874	50.0	1389813.00	1.878
n-Propylbenzene	5.00	198543.000	3.143	20.0	825550.000	3.176	50.0	2235848.00	3.021
o-Xylene	5.00	64961.0000	0.5626	20.0	274017.000	0.5679	50.0	746746.000	0.5731
p-Isopropyltoluene	5.00	118439.000	1.875	20.0	495593.000	1.907	50.0	1427004.00	1.928
sec-Butylbenzene	5.00	150646.000	2.385	20.0	623652.000	2.399	50.0	1741371.00	2.353
tert-Butylbenzene	5.00	24347.0000	0.3854	20.0	99456.0000	0.3826	50.0	284683.000	0.3846
trans-1,2-Dichloroethene	5.00	56377.0000	0.3578	20.0	240102.000	0.3716	50.0	642048.000	0.3658
trans-1,3-Dichloropropene	5.00	50128.0000	0.4341	20.0	217575.000	0.4510	50.0	598569.000	0.4594

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Login Number: L08100887
Analytical Method: 8260B

Instrument ID: HPMS8
Initial Calibration Date: 03-NOV-08 21:17
Column ID: F

Analyte	WG286725-09			WG286725-10			WG286725-11		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	100	652244.000	0.1786	200	1232297.00	0.1655	NA	NA	NA
Dibromochloromethane	100	701171.000	0.2514	200	1463345.00	0.2509	NA	NA	NA
Dibromomethane	100	408643.000	0.1119	200	816611.000	0.1096	NA	NA	NA
Dichlorodifluoromethane	100	851187.000	0.2330	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	100	526741.000	0.3383	200	1091674.00	0.3260	NA	NA	NA
Isopropylbenzene	100	3580037.00	1.284	200	6672937.00	1.144	NA	NA	NA
Methylene Chloride	100	836395.000	0.2290	200	1572070.00	0.2111	NA	NA	NA
Naphthalene	100	1626853.00	1.045	200	3192176.00	0.9534	NA	NA	NA
Styrene	100	2423939.00	0.8692	200	4567863.00	0.7833	NA	NA	NA
Tetrachloroethene	100	654980.000	0.2349	200	1270247.00	0.2178	NA	NA	NA
Trichloroethene	100	809687.000	0.2217	200	1535003.00	0.2061	NA	NA	NA
Trichlorofluoromethane	100	1633768.00	0.4472	200	3253236.00	0.4368	NA	NA	NA
Vinyl Acetate	100	434844.000	0.1190	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	100	901237.000	0.2467	200	1676625.00	0.2251	NA	NA	NA
cis-1,3-Dichloropropene	100	1341483.00	0.3672	200	2593504.00	0.3482	NA	NA	NA
m-,p-Xylene	200	2747636.00	0.4926	400	5156998.00	0.4422	NA	NA	NA
n-Butylbenzene	100	2817483.00	1.809	200	5319397.00	1.589	NA	NA	NA
n-Propylbenzene	100	4403419.00	2.828	200	7883049.00	2.354	NA	NA	NA
o-Xylene	100	1458830.00	0.5231	200	2790745.00	0.4786	NA	NA	NA
p-Isopropyltoluene	100	2941936.00	1.889	200	5669065.00	1.693	NA	NA	NA
sec-Butylbenzene	100	3520429.00	2.261	200	6638552.00	1.983	NA	NA	NA
tert-Butylbenzene	100	576721.000	0.3704	200	1126270.00	0.3364	NA	NA	NA
trans-1,2-Dichloroethene	100	1297066.00	0.3551	200	2469418.00	0.3316	NA	NA	NA
trans-1,3-Dichloropropene	100	1222638.00	0.4384	200	2460518.00	0.4219	NA	NA	NA

INT_CAL - Modified 03/06/2008
PDF File ID: 1261410
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Login Number: L08100887 Run Date: 10/11/2008 Sample ID: WG284610-12
Instrument ID: HPMS14 Run Time: 03:50 Method: 8260B
File ID: 14M08708 Analyst: MDA QC Key: STD
ICal Workgroup: WG284610 Cal ID: HPMS14 - 11-OCT-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	22.6	ug/L	0.413	13.1	30	
1,1-Dichloroethene	CCC	20.0	20.4	ug/L	0.321	2.20	30	
1,2-Dichloropropane	CCC	20.0	21.5	ug/L	0.210	7.40	30	
Ethylbenzene	CCC	20.0	22.7	ug/L	0.466	13.5	30	
Toluene	CCC	20.0	20.9	ug/L	1.21	4.60	30	
Vinyl Chloride	CCC	20.0	25.2	ug/L	0.160	26.1	30	
Bromoform	SPCC	20.0	21.8	ug/L	0.149	9.20	30	
Chlorobenzene	SPCC	20.0	21.9	ug/L	0.823	9.30	30	
Chloromethane	SPCC	20.0	17.2	ug/L	0.141	14.2	30	
1,1-Dichloroethane	SPCC	20.0	22.8	ug/L	0.398	14.2	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	22.2	ug/L	0.393	11.2	30	
Acetone		20.0	22.6	ug/L	0.0308	13.2	30	
Benzene		20.0	21.3	ug/L	0.820	6.40	30	
Bromobenzene		20.0	21.5	ug/L	0.732	7.40	30	
Bromochloromethane		20.0	23.8	ug/L	0.115	19.0	30	
Bromodichloromethane		20.0	23.2	ug/L	0.317	16.1	30	
Bromomethane		20.0	17.4	ug/L	0.0888	12.8	30	
2-Butanone		20.0	21.9	ug/L	0.0429	9.70	30	
n-Butylbenzene		20.0	23.1	ug/L	1.74	15.7	30	
sec-Butylbenzene		20.0	22.7	ug/L	2.90	13.6	30	
tert-Butylbenzene		20.0	22.3	ug/L	0.491	11.3	30	
Carbon Disulfide		20.0	18.9	ug/L	0.551	5.50	30	
Carbon Tetrachloride		20.0	21.2	ug/L	0.379	6.10	30	
Dibromochloromethane		20.0	22.8	ug/L	0.284	14.0	30	
Chloroethane		20.0	23.0	ug/L	0.129	15.0	30	
2-Chloroethyl Vinyl Ether		20.0	26.6	ug/L	0.0168	33.2	30	*
2-Chlorotoluene		20.0	22.9	ug/L	2.49	14.3	30	
4-Chlorotoluene		20.0	21.6	ug/L	1.85	8.10	30	
1,2-Dibromo-3-Chloropropane		20.0	21.8	ug/L	0.0756	8.90	30	
1,2-Dibromoethane		20.0	22.7	ug/L	0.191	13.7	30	
Dibromomethane		20.0	23.5	ug/L	0.104	17.4	30	
1,2-Dichlorobenzene		20.0	21.7	ug/L	1.17	8.70	30	
1,3-Dichlorobenzene		20.0	21.9	ug/L	1.35	9.40	30	
1,4-Dichlorobenzene		20.0	21.1	ug/L	1.31	5.40	30	
Dichlorodifluoromethane		20.0	25.3	ug/L	0.283	26.7	30	
1,2-Dichloroethane		20.0	23.4	ug/L	0.300	16.9	30	
cis-1,2-Dichloroethene		20.0	23.0	ug/L	0.222	14.8	30	
trans-1,2-Dichloroethene		20.0	22.8	ug/L	0.198	13.9	30	
1,3-Dichloropropane		20.0	22.5	ug/L	0.335	12.4	30	
2,2-Dichloropropane		20.0	21.3	ug/L	0.351	6.50	30	
cis-1,3-Dichloropropene		20.0	22.2	ug/L	0.312	10.9	30	
trans-1,3-Dichloropropene		20.0	21.0	ug/L	0.343	5.10	30	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1261411
Report generated 11/26/2008 09:39



Login Number: L08100887 Run Date: 10/11/2008 Sample ID: WG284610-12
Instrument ID: HPMS14 Run Time: 03:50 Method: 8260B
File ID: 14M08708 Analyst: MDA QC Key: STD
Ical Workgroup: WG284610 Cal ID: HPMS14 - 11-OCT-08

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	22.1	ug/L	0.311	10.7	30	
2-Hexanone	20.0	20.8	ug/L	0.0838	3.90	30	
Hexachlorobutadiene	20.0	23.3	ug/L	0.424	16.6	30	
Isopropylbenzene	20.0	19.9	ug/L	1.30	0.400	30	
p-Isopropyltoluene	20.0	22.2	ug/L	2.18	11.0	30	
4-Methyl-2-Pentanone	20.0	19.7	ug/L	0.0392	1.50	30	
Methylene Chloride	20.0	21.9	ug/L	0.185	9.40	30	
Naphthalene	20.0	22.9	ug/L	0.655	14.7	30	
n-Propylbenzene	20.0	22.6	ug/L	3.34	13.0	30	
Styrene	20.0	22.5	ug/L	0.860	12.3	30	
1,1,1,2-Tetrachloroethane	20.0	23.0	ug/L	0.321	14.9	30	
Tetrachloroethene	20.0	22.1	ug/L	0.343	10.6	30	
1,2,3-Trichlorobenzene	20.0	22.2	ug/L	0.442	10.8	30	
1,2,4-Trichlorobenzene	20.0	22.1	ug/L	0.529	10.4	30	
1,1,1-Trichloroethane	20.0	23.3	ug/L	0.425	16.7	30	
1,1,2-Trichloroethane	20.0	22.8	ug/L	0.188	14.1	30	
Trichloroethene	20.0	21.3	ug/L	0.241	6.40	30	
Trichlorofluoromethane	20.0	20.0	ug/L	0.426	0	30	
1,2,3-Trichloropropane	20.0	22.4	ug/L	0.142	11.8	30	
1,2,4-Trimethylbenzene	20.0	23.0	ug/L	1.90	15.0	30	
1,3,5-Trimethylbenzene	20.0	23.0	ug/L	2.02	14.8	30	
Vinyl Acetate	20.0	17.9	ug/L	0.151	10.7	40	
o-Xylene	20.0	22.5	ug/L	0.525	12.4	30	
m-,p-Xylene	40.0	45.6	ug/L	0.546	14.1	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 10/28/2008 Sample ID: WG286204-12
Instrument ID: HPMS6 Run Time: 22:51 Method: 8260B
File ID: 6M79255 Analyst: CAA QC Key: STD
Ical Workgroup: WG286204 Cal ID: HPMS6 - 28-OCT-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	21.0	ug/L	0.430	5.20	30	
1,1-Dichloroethene	CCC	20.0	20.6	ug/L	0.422	2.90	30	
1,2-Dichloropropane	CCC	20.0	20.7	ug/L	0.229	3.30	30	
Ethylbenzene	CCC	20.0	21.4	ug/L	0.375	7.10	30	
Toluene	CCC	20.0	21.9	ug/L	1.00	9.60	30	
Vinyl Chloride	CCC	20.0	24.6	ug/L	0.235	23.1	30	
Bromoform	SPCC	20.0	19.0	ug/L	0.146	5.00	30	
Chlorobenzene	SPCC	20.0	20.6	ug/L	0.736	2.90	30	
Chloromethane	SPCC	20.0	17.5	ug/L	0.228	12.4	30	
1,1-Dichloroethane	SPCC	20.0	20.7	ug/L	0.491	3.40	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.4	ug/L	0.312	2.20	30	
Acetone		20.0	21.8	ug/L	0.0490	8.90	30	
Benzene		20.0	21.0	ug/L	0.725	5.00	30	
Bromobenzene		20.0	20.9	ug/L	0.519	4.40	30	
Bromochloromethane		20.0	20.5	ug/L	0.128	2.60	30	
Bromodichloromethane		20.0	20.4	ug/L	0.287	1.90	30	
Bromomethane		20.0	18.7	ug/L	0.146	6.70	30	
2-Butanone		20.0	21.0	ug/L	0.0694	5.00	30	
n-Butylbenzene		20.0	21.4	ug/L	1.79	7.10	30	
sec-Butylbenzene		20.0	22.0	ug/L	2.15	10.1	30	
tert-Butylbenzene		20.0	20.4	ug/L	0.389	1.80	30	
Carbon Disulfide		20.0	18.7	ug/L	0.581	6.40	30	
Carbon Tetrachloride		20.0	19.2	ug/L	0.336	4.20	30	
Dibromochloromethane		20.0	20.0	ug/L	0.245	0.200	30	
Chloroethane		20.0	21.7	ug/L	0.188	8.30	30	
2-Chloroethyl Vinyl Ether		20.0	21.2	ug/L	0.105	6.10	30	
2-Chlorotoluene		20.0	22.9	ug/L	1.69	14.7	30	
4-Chlorotoluene		20.0	21.1	ug/L	1.53	5.70	30	
1,2-Dibromo-3-Chloropropane		20.0	20.1	ug/L	0.0668	0.600	30	
1,2-Dibromoethane		20.0	20.8	ug/L	0.179	4.20	30	
Dibromomethane		20.0	20.4	ug/L	0.113	2.20	30	
1,2-Dichlorobenzene		20.0	21.0	ug/L	1.01	4.90	30	
1,3-Dichlorobenzene		20.0	21.2	ug/L	1.10	5.90	30	
1,4-Dichlorobenzene		20.0	20.0	ug/L	1.13	0.100	30	
Dichlorodifluoromethane		20.0	26.7	ug/L	0.312	33.6	30	*
1,2-Dichloroethane		20.0	19.6	ug/L	0.363	2.00	30	
cis-1,2-Dichloroethene		20.0	22.0	ug/L	0.229	10.2	30	
trans-1,2-Dichloroethene		20.0	20.9	ug/L	0.204	4.50	30	
1,3-Dichloropropane		20.0	21.0	ug/L	0.306	5.00	30	
2,2-Dichloropropane		20.0	18.5	ug/L	0.307	7.70	30	
cis-1,3-Dichloropropene		20.0	20.2	ug/L	0.285	1.00	30	
trans-1,3-Dichloropropene		20.0	18.7	ug/L	0.304	6.60	30	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1261411
Report generated 11/26/2008 09:39



Login Number: L08100887 Run Date: 10/28/2008 Sample ID: WG286204-12
Instrument ID: HPMS6 Run Time: 22:51 Method: 8260B
File ID: 6M79255 Analyst: CAA QC Key: STD
Ical Workgroup: WG286204 Cal ID: HPMS6 - 28-OCT-08

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	19.5	ug/L	0.268	2.40	30	
2-Hexanone	20.0	19.8	ug/L	0.118	0.800	30	
Hexachlorobutadiene	20.0	19.3	ug/L	0.270	3.50	30	
Isopropylbenzene	20.0	16.8	ug/L	1.11	16.1	30	
p-Isopropyltoluene	20.0	21.3	ug/L	1.92	6.50	30	
4-Methyl-2-Pentanone	20.0	19.4	ug/L	0.0599	2.90	30	
Methylene Chloride	20.0	20.0	ug/L	0.198	0	30	
Naphthalene	20.0	23.2	ug/L	1.27	15.8	30	
n-Propylbenzene	20.0	19.7	ug/L	2.47	1.60	30	
Styrene	20.0	18.8	ug/L	0.814	5.90	30	
1,1,1,2-Tetrachloroethane	20.0	20.7	ug/L	0.279	3.70	30	
Tetrachloroethene	20.0	20.0	ug/L	0.263	0.200	30	
1,2,3-Trichlorobenzene	20.0	21.0	ug/L	0.609	5.20	30	
1,2,4-Trichlorobenzene	20.0	21.0	ug/L	0.692	5.20	30	
1,1,1-Trichloroethane	20.0	19.9	ug/L	0.372	0.600	30	
1,1,2-Trichloroethane	20.0	20.3	ug/L	0.173	1.50	30	
Trichloroethene	20.0	20.7	ug/L	0.210	3.70	30	
Trichlorofluoromethane	20.0	20.2	ug/L	0.435	0.900	30	
1,2,3-Trichloropropane	20.0	19.9	ug/L	0.106	0.400	30	
1,2,4-Trimethylbenzene	20.0	21.9	ug/L	1.87	9.60	30	
1,3,5-Trimethylbenzene	20.0	19.5	ug/L	1.76	2.70	30	
Vinyl Acetate	20.0	18.2	ug/L	0.266	9.10	40	
o-Xylene	20.0	22.1	ug/L	0.472	10.4	30	
m-,p-Xylene	40.0	44.7	ug/L	0.487	11.7	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/03/2008 Sample ID: WG286725-12
Instrument ID: HPMS8 Run Time: 22:52 Method: 8260B
File ID: 8M349436 Analyst: CAA QC Key: STD
Ical Workgroup: WG286725 Cal ID: HPMS8 - 03-NOV-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	22.1	ug/L	0.515	10.3	30	
1,1-Dichloroethene	CCC	20.0	20.7	ug/L	0.399	3.60	30	
1,2-Dichloropropane	CCC	20.0	19.5	ug/L	0.231	2.50	30	
Ethylbenzene	CCC	20.0	21.3	ug/L	0.473	6.70	30	
Toluene	CCC	20.0	20.5	ug/L	1.27	2.70	30	
Vinyl Chloride	CCC	20.0	24.5	ug/L	0.212	22.5	30	
Bromoform	SPCC	20.0	20.5	ug/L	0.166	2.70	30	
Chlorobenzene	SPCC	20.0	20.8	ug/L	0.828	4.20	30	
Chloromethane	SPCC	20.0	20.7	ug/L	0.194	3.30	30	
1,1-Dichloroethane	SPCC	20.0	20.8	ug/L	0.474	4.00	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	19.1	ug/L	0.393	4.30	30	
Acetone		20.0	21.7	ug/L	0.0404	8.40	30	
Benzene		20.0	20.2	ug/L	0.981	1.00	30	
Bromobenzene		20.0	21.4	ug/L	0.638	6.90	30	
Bromochloromethane		20.0	21.1	ug/L	0.123	5.70	30	
Bromodichloromethane		20.0	22.1	ug/L	0.362	10.7	30	
Bromomethane		20.0	22.2	ug/L	0.195	11.1	30	
2-Butanone		20.0	18.7	ug/L	0.0482	6.70	30	
n-Butylbenzene		20.0	21.0	ug/L	1.88	4.80	30	
sec-Butylbenzene		20.0	21.5	ug/L	2.46	7.30	30	
tert-Butylbenzene		20.0	21.8	ug/L	0.406	8.80	30	
Carbon Disulfide		20.0	20.1	ug/L	0.769	0.500	30	
Carbon Tetrachloride		20.0	23.4	ug/L	0.382	16.8	30	
Dibromochloromethane		20.0	21.8	ug/L	0.258	8.80	30	
Chloroethane		20.0	21.0	ug/L	0.183	4.80	30	
2-Chloroethyl Vinyl Ether		20.0	20.4	ug/L	0.0980	2.10	30	
2-Chlorotoluene		20.0	21.8	ug/L	2.30	8.90	30	
4-Chlorotoluene		20.0	21.7	ug/L	2.03	8.30	30	
1,2-Dibromo-3-Chloropropane		20.0	19.9	ug/L	0.0753	0.500	30	
1,2-Dibromoethane		20.0	20.9	ug/L	0.208	4.60	30	
Dibromomethane		20.0	21.7	ug/L	0.119	8.30	30	
1,2-Dichlorobenzene		20.0	20.7	ug/L	1.06	3.60	30	
1,3-Dichlorobenzene		20.0	20.8	ug/L	1.21	4.20	30	
1,4-Dichlorobenzene		20.0	20.0	ug/L	1.22	0	30	
Dichlorodifluoromethane		20.0	27.5	ug/L	0.357	37.5	30	*
1,2-Dichloroethane		20.0	21.4	ug/L	0.343	7.20	30	
cis-1,2-Dichloroethene		20.0	22.1	ug/L	0.267	10.5	30	
trans-1,2-Dichloroethene		20.0	20.4	ug/L	0.374	2.10	30	
1,3-Dichloropropane		20.0	20.3	ug/L	0.405	1.40	30	
2,2-Dichloropropane		20.0	21.0	ug/L	0.420	4.90	30	
cis-1,3-Dichloropropene		20.0	21.1	ug/L	0.374	5.60	30	
trans-1,3-Dichloropropene		20.0	19.2	ug/L	0.414	4.20	30	

ALT - Modified 09/06/2007
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Login Number: L08100887 Run Date: 11/03/2008 Sample ID: WG286725-12
Instrument ID: HPMS8 Run Time: 22:52 Method: 8260B
File ID: 8M349436 Analyst: CAA QC Key: STD
Ical Workgroup: WG286725 Cal ID: HPMS8 - 03-NOV-08

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	21.3	ug/L	0.367	6.40	30	
2-Hexanone	20.0	18.7	ug/L	0.0522	6.40	30	
Hexachlorobutadiene	20.0	19.8	ug/L	0.333	1.20	30	
Isopropylbenzene	20.0	19.8	ug/L	1.27	1.00	30	
p-Isopropyltoluene	20.0	21.4	ug/L	1.98	7.20	30	
4-Methyl-2-Pentanone	20.0	18.3	ug/L	0.0418	8.40	30	
Methylene Chloride	20.0	19.3	ug/L	0.243	3.50	30	
Naphthalene	20.0	19.4	ug/L	1.00	3.20	30	
n-Propylbenzene	20.0	22.1	ug/L	3.22	10.3	30	
Styrene	20.0	22.4	ug/L	0.953	11.9	30	
1,1,1,2-Tetrachloroethane	20.0	21.2	ug/L	0.283	5.80	30	
Tetrachloroethene	20.0	20.9	ug/L	0.252	4.40	30	
1,2,3-Trichlorobenzene	20.0	17.6	ug/L	0.483	12.2	30	
1,2,4-Trichlorobenzene	20.0	18.3	ug/L	0.599	8.70	30	
1,1,1-Trichloroethane	20.0	22.8	ug/L	0.455	13.9	30	
1,1,2-Trichloroethane	20.0	21.2	ug/L	0.207	5.80	30	
Trichloroethene	20.0	21.2	ug/L	0.222	6.20	30	
Trichlorofluoromethane	20.0	24.0	ug/L	0.513	19.9	30	
1,2,3-Trichloropropane	20.0	20.7	ug/L	0.132	3.50	30	
1,2,4-Trimethylbenzene	20.0	21.9	ug/L	2.31	9.40	30	
1,3,5-Trimethylbenzene	20.0	22.5	ug/L	2.22	12.6	30	
Vinyl Acetate	20.0	23.5	ug/L	0.309	17.3	40	
o-Xylene	20.0	21.8	ug/L	0.583	8.90	30	
m-,p-Xylene	40.0	43.2	ug/L	0.587	7.90	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/08/2008 Sample ID: WG287337-02
Instrument ID: HPMS6 Run Time: 17:55 Method: 8260B
File ID: 6M79577 Analyst: MDA QC Key: STD
Workgroup (AAB#): WG287338 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	50.0	ug/L	0.409	0.0468	20	
1,1-Dichloroethene	CCC	50.0	46.2	ug/L	0.379	7.57	20	
1,2-Dichloropropane	CCC	50.0	49.0	ug/L	0.217	2.07	20	
Ethylbenzene	CCC	50.0	51.8	ug/L	0.363	3.53	20	
Toluene	CCC	50.0	48.5	ug/L	0.885	3.08	20	
Vinyl Chloride	CCC	50.0	50.0	ug/L	0.190	0.0398	20	
Bromoform	SPCC	50.0	54.7	ug/L	0.168	9.34	40	
Chlorobenzene	SPCC	50.0	50.8	ug/L	0.727	1.65	40	
Chloromethane	SPCC	50.0	52.9	ug/L	0.275	5.76	40	
1,1-Dichloroethane	SPCC	50.0	47.3	ug/L	0.449	5.46	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.5	ug/L	0.302	0.927	40	
Acetone		50.0	51.8	ug/L	0.0466	3.66	40	
Benzene		50.0	48.1	ug/L	0.665	3.73	40	
Bromobenzene		50.0	49.8	ug/L	0.495	0.317	40	
Bromochloromethane		50.0	59.3	ug/L	0.148	18.7	40	
Bromodichloromethane		50.0	63.0	ug/L	0.355	26.0	40	
Bromomethane		50.0	40.5	ug/L	0.125	19.0	40	
2-Butanone		50.0	46.1	ug/L	0.0609	7.83	40	
n-Butylbenzene		50.0	52.7	ug/L	1.77	5.38	40	
sec-Butylbenzene		50.0	51.6	ug/L	2.01	3.18	40	
tert-Butylbenzene		50.0	48.8	ug/L	0.373	2.39	40	
Carbon Disulfide		50.0	54.7	ug/L	0.678	9.32	40	
Carbon Tetrachloride		50.0	43.3	ug/L	0.305	13.3	40	
Dibromochloromethane		50.0	53.7	ug/L	0.262	7.45	40	
Chloroethane		50.0	65.4	ug/L	0.226	30.8	40	
2-Chloroethyl Vinyl Ether		50.0	55.9	ug/L	0.111	11.8	40	
2-Chlorotoluene		50.0	52.9	ug/L	1.56	5.82	40	
4-Chlorotoluene		50.0	50.6	ug/L	1.46	1.13	40	
1,2-Dibromo-3-Chloropropane		50.0	47.9	ug/L	0.0636	4.12	40	
1,2-Dibromoethane		50.0	52.7	ug/L	0.181	5.47	40	
Dibromomethane		50.0	62.8	ug/L	0.139	25.7	40	
1,2-Dichlorobenzene		50.0	51.5	ug/L	0.993	3.09	40	
1,3-Dichlorobenzene		50.0	52.6	ug/L	1.09	5.13	40	
1,4-Dichlorobenzene		50.0	50.0	ug/L	1.13	0.00240	40	
Dichlorodifluoromethane		50.0	54.4	ug/L	0.255	8.81	40	
1,2-Dichloroethane		50.0	48.5	ug/L	0.360	2.97	40	
cis-1,2-Dichloroethene		50.0	52.3	ug/L	0.217	4.51	40	
trans-1,2-Dichloroethene		50.0	47.6	ug/L	0.186	4.83	40	
1,3-Dichloropropane		50.0	47.1	ug/L	0.275	5.84	40	
2,2-Dichloropropane		50.0	45.8	ug/L	0.305	8.32	40	
cis-1,3-Dichloropropene		50.0	60.7	ug/L	0.342	21.4	40	
trans-1,3-Dichloropropene		50.0	50.3	ug/L	0.327	0.613	40	

CCV - Modified 03/05/2008
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Login Number: L08100887 Run Date: 11/08/2008 Sample ID: WG287337-02
Instrument ID: HPMS6 Run Time: 17:55 Method: 8260B
File ID: 6M79577 Analyst: MDA QC Key: STD
Workgroup (AAB#): WG287338 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	42.3	ug/L	0.232	15.4	40	
2-Hexanone	50.0	41.7	ug/L	0.0991	16.6	40	
Hexachlorobutadiene	50.0	50.3	ug/L	0.281	0.582	40	
Isopropylbenzene	50.0	49.2	ug/L	1.26	1.52	40	
p-Isopropyltoluene	50.0	53.7	ug/L	1.94	7.34	40	
4-Methyl-2-Pentanone	50.0	57.8	ug/L	0.0713	15.6	40	
Methylene Chloride	50.0	58.3	ug/L	0.229	16.5	40	
Naphthalene	50.0	43.9	ug/L	0.964	12.2	40	
n-Propylbenzene	50.0	48.3	ug/L	2.30	3.31	40	
Styrene	50.0	48.2	ug/L	0.823	3.70	40	
1,1,1,2-Tetrachloroethane	50.0	52.4	ug/L	0.282	4.88	40	
Tetrachloroethene	50.0	46.3	ug/L	0.246	7.44	40	
1,2,3-Trichlorobenzene	50.0	38.1	ug/L	0.442	23.7	40	
1,2,4-Trichlorobenzene	50.0	46.2	ug/L	0.608	7.60	40	
1,1,1-Trichloroethane	50.0	45.7	ug/L	0.342	8.70	40	
1,1,2-Trichloroethane	50.0	49.0	ug/L	0.167	2.00	40	
Trichloroethene	50.0	51.1	ug/L	0.207	2.26	40	
Trichlorofluoromethane	50.0	47.5	ug/L	0.414	5.00	40	
1,2,3-Trichloropropane	50.0	49.5	ug/L	0.105	0.975	40	
1,2,4-Trimethylbenzene	50.0	53.2	ug/L	1.81	6.39	40	
1,3,5-Trimethylbenzene	50.0	48.5	ug/L	1.70	3.08	40	
Vinyl Acetate	50.0	31.4	ug/L	0.184	37.1	40	
o-Xylene	50.0	54.9	ug/L	0.470	9.79	40	
m-,p-Xylene	100	110	ug/L	0.478	9.65	40	
1,2-Dichloroethene	100	99.8	ug/L	0.201	0.159	40	
Xylenes	150	165	ug/L	0.474	9.70	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/08/2008 Sample ID: WG287339-02
Instrument ID: HPMS14 Run Time: 18:20 Method: 8260B
File ID: 14M09703 Analyst: MDA QC Key: STD
Workgroup (AAB#): WG287340 Cal ID: HPMS14 - 11-OCT-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	55.3	ug/L	0.404	10.5	20	
1,1-Dichloroethene	CCC	50.0	49.9	ug/L	0.317	0.116	20	
1,2-Dichloropropane	CCC	50.0	50.2	ug/L	0.196	0.388	20	
Ethylbenzene	CCC	50.0	53.3	ug/L	0.438	6.64	20	
Toluene	CCC	50.0	50.2	ug/L	1.16	0.326	20	
Vinyl Chloride	CCC	50.0	46.7	ug/L	0.118	6.64	20	
Bromoform	SPCC	50.0	53.6	ug/L	0.147	7.28	40	
Chlorobenzene	SPCC	50.0	52.5	ug/L	0.791	5.09	40	
Chloromethane	SPCC	50.0	46.4	ug/L	0.152	7.30	40	
1,1-Dichloroethane	SPCC	50.0	55.4	ug/L	0.387	10.9	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.6	ug/L	0.337	4.82	40	
Acetone		50.0	51.6	ug/L	0.0280	3.17	40	
Benzene		50.0	49.9	ug/L	0.769	0.200	40	
Bromobenzene		50.0	47.8	ug/L	0.652	4.31	40	
Bromochloromethane		50.0	52.8	ug/L	0.102	5.51	40	
Bromodichloromethane		50.0	54.8	ug/L	0.299	9.69	40	
Bromomethane		50.0	57.3	ug/L	0.131	14.7	40	
2-Butanone		50.0	42.4	ug/L	0.0332	15.1	40	
n-Butylbenzene		50.0	58.0	ug/L	1.75	16.0	40	
sec-Butylbenzene		50.0	54.4	ug/L	2.77	8.82	40	
tert-Butylbenzene		50.0	53.0	ug/L	0.467	5.96	40	
Carbon Disulfide		50.0	47.7	ug/L	0.556	4.55	40	
Carbon Tetrachloride		50.0	52.9	ug/L	0.373	5.86	40	
Dibromochloromethane		50.0	54.0	ug/L	0.269	7.93	40	
Chloroethane		50.0	47.4	ug/L	0.107	5.18	40	
2-Chloroethyl Vinyl Ether		50.0	125	ug/L	0.0464	150	40	*
2-Chlorotoluene		50.0	50.9	ug/L	2.22	1.74	40	
4-Chlorotoluene		50.0	55.4	ug/L	1.89	10.9	40	
1,2-Dibromo-3-Chloropropane		50.0	49.1	ug/L	0.0681	1.82	40	
1,2-Dibromoethane		50.0	50.5	ug/L	0.170	0.994	40	
Dibromomethane		50.0	47.9	ug/L	0.0845	4.30	40	
1,2-Dichlorobenzene		50.0	50.5	ug/L	1.08	1.01	40	
1,3-Dichlorobenzene		50.0	51.9	ug/L	1.28	3.84	40	
1,4-Dichlorobenzene		50.0	50.6	ug/L	1.26	1.15	40	
Dichlorodifluoromethane		50.0	45.0	ug/L	0.201	9.97	40	
1,2-Dichloroethane		50.0	54.1	ug/L	0.278	8.19	40	
cis-1,2-Dichloroethene		50.0	54.1	ug/L	0.209	8.23	40	
trans-1,2-Dichloroethene		50.0	56.5	ug/L	0.197	13.1	40	
1,3-Dichloropropane		50.0	49.6	ug/L	0.295	0.880	40	
2,2-Dichloropropane		50.0	57.0	ug/L	0.376	14.0	40	
cis-1,3-Dichloropropene		50.0	51.8	ug/L	0.292	3.53	40	
trans-1,3-Dichloropropene		50.0	53.1	ug/L	0.346	6.17	40	

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Login Number: L08100887 Run Date: 11/08/2008 Sample ID: WG287339-02
Instrument ID: HPMS14 Run Time: 18:20 Method: 8260B
File ID: 14M09703 Analyst: MDA QC Key: STD
Workgroup (AAB#): WG287340 Cal ID: HPMS14 - 11-OCT-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	53.6	ug/L	0.302	7.28	40	
2-Hexanone	50.0	44.3	ug/L	0.0714	11.5	40	
Hexachlorobutadiene	50.0	57.8	ug/L	0.420	15.7	40	
Isopropylbenzene	50.0	54.2	ug/L	1.41	8.38	40	
p-Isopropyltoluene	50.0	56.3	ug/L	2.22	12.7	40	
4-Methyl-2-Pentanone	50.0	46.0	ug/L	0.0365	8.10	40	
Methylene Chloride	50.0	47.9	ug/L	0.159	4.17	40	
Naphthalene	50.0	60.3	ug/L	0.689	20.6	40	
n-Propylbenzene	50.0	54.2	ug/L	3.21	8.42	40	
Styrene	50.0	54.1	ug/L	0.828	8.13	40	
1,1,1,2-Tetrachloroethane	50.0	55.0	ug/L	0.307	9.93	40	
Tetrachloroethene	50.0	54.3	ug/L	0.337	8.64	40	
1,2,3-Trichlorobenzene	50.0	56.2	ug/L	0.448	12.4	40	
1,2,4-Trichlorobenzene	50.0	58.0	ug/L	0.555	16.0	40	
1,1,1-Trichloroethane	50.0	57.3	ug/L	0.418	14.6	40	
1,1,2-Trichloroethane	50.0	50.4	ug/L	0.166	0.890	40	
Trichloroethene	50.0	51.9	ug/L	0.235	3.74	40	
Trichlorofluoromethane	50.0	47.3	ug/L	0.404	5.40	40	
1,2,3-Trichloropropane	50.0	47.9	ug/L	0.122	4.13	40	
1,2,4-Trimethylbenzene	50.0	56.1	ug/L	1.86	12.2	40	
1,3,5-Trimethylbenzene	50.0	57.1	ug/L	2.00	14.2	40	
Vinyl Acetate	50.0	57.2	ug/L	0.181	14.4	40	
o-Xylene	50.0	54.6	ug/L	0.510	9.19	40	
m-,p-Xylene	100	110	ug/L	0.528	10.4	40	
1,2-Dichloroethene	100	111	ug/L	0.203	10.7	40	
Xylenes	150	165	ug/L	0.519	9.99	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/09/2008 Sample ID: WG287348-02
Instrument ID: HPMS6 Run Time: 14:12 Method: 8260B
File ID: 6M79609 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287349 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	48.7	ug/L	0.399	2.61	20	
1,1-Dichloroethene	CCC	50.0	47.4	ug/L	0.389	5.26	20	
1,2-Dichloropropane	CCC	50.0	51.4	ug/L	0.228	2.77	20	
Ethylbenzene	CCC	50.0	52.5	ug/L	0.367	4.93	20	
Toluene	CCC	50.0	48.1	ug/L	0.878	3.81	20	
Vinyl Chloride	CCC	50.0	54.3	ug/L	0.204	8.57	20	
Bromoform	SPCC	50.0	55.6	ug/L	0.171	11.1	40	
Chlorobenzene	SPCC	50.0	52.0	ug/L	0.744	3.98	40	
Chloromethane	SPCC	50.0	52.9	ug/L	0.275	5.71	40	
1,1-Dichloroethane	SPCC	50.0	45.8	ug/L	0.435	8.48	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	52.7	ug/L	0.322	5.45	40	
Acetone		50.0	47.6	ug/L	0.0429	4.74	40	
Benzene		50.0	49.3	ug/L	0.681	1.46	40	
Bromobenzene		50.0	51.3	ug/L	0.509	2.52	40	
Bromochloromethane		50.0	58.8	ug/L	0.147	17.6	40	
Bromodichloromethane		50.0	62.9	ug/L	0.354	25.9	40	
Bromomethane		50.0	47.1	ug/L	0.147	5.77	40	
2-Butanone		50.0	45.0	ug/L	0.0595	9.94	40	
n-Butylbenzene		50.0	54.2	ug/L	1.82	8.43	40	
sec-Butylbenzene		50.0	53.0	ug/L	2.07	6.03	40	
tert-Butylbenzene		50.0	50.0	ug/L	0.382	0.0346	40	
Carbon Disulfide		50.0	54.2	ug/L	0.672	8.40	40	
Carbon Tetrachloride		50.0	40.6	ug/L	0.286	18.7	40	
Dibromochloromethane		50.0	53.3	ug/L	0.260	6.60	40	
Chloroethane		50.0	65.6	ug/L	0.227	31.1	40	
2-Chloroethyl Vinyl Ether		50.0	57.1	ug/L	0.113	14.2	40	
2-Chlorotoluene		50.0	53.6	ug/L	1.58	7.16	40	
4-Chlorotoluene		50.0	50.1	ug/L	1.45	0.299	40	
1,2-Dibromo-3-Chloropropane		50.0	50.5	ug/L	0.0670	0.991	40	
1,2-Dibromoethane		50.0	54.2	ug/L	0.186	8.30	40	
Dibromomethane		50.0	65.0	ug/L	0.144	29.9	40	
1,2-Dichlorobenzene		50.0	53.5	ug/L	1.03	7.05	40	
1,3-Dichlorobenzene		50.0	53.2	ug/L	1.10	6.50	40	
1,4-Dichlorobenzene		50.0	51.0	ug/L	1.15	2.05	40	
Dichlorodifluoromethane		50.0	45.8	ug/L	0.214	8.44	40	
1,2-Dichloroethane		50.0	47.7	ug/L	0.354	4.62	40	
cis-1,2-Dichloroethene		50.0	51.4	ug/L	0.213	2.73	40	
trans-1,2-Dichloroethene		50.0	44.3	ug/L	0.173	11.5	40	
1,3-Dichloropropane		50.0	48.2	ug/L	0.281	3.57	40	
2,2-Dichloropropane		50.0	42.1	ug/L	0.280	15.9	40	
cis-1,3-Dichloropropene		50.0	61.8	ug/L	0.348	23.6	40	
trans-1,3-Dichloropropene		50.0	49.2	ug/L	0.320	1.61	40	

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Login Number: L08100887 Run Date: 11/09/2008 Sample ID: WG287348-02
Instrument ID: HPMS6 Run Time: 14:12 Method: 8260B
File ID: 6M79609 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287349 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	43.4	ug/L	0.239	13.1	40	
2-Hexanone	50.0	44.3	ug/L	0.105	11.4	40	
Hexachlorobutadiene	50.0	50.4	ug/L	0.282	0.751	40	
Isopropylbenzene	50.0	50.0	ug/L	1.28	0.0932	40	
p-Isopropyltoluene	50.0	54.4	ug/L	1.96	8.75	40	
4-Methyl-2-Pentanone	50.0	62.9	ug/L	0.0776	25.9	40	
Methylene Chloride	50.0	61.1	ug/L	0.239	22.1	40	
Naphthalene	50.0	49.1	ug/L	1.08	1.71	40	
n-Propylbenzene	50.0	49.2	ug/L	2.33	1.66	40	
Styrene	50.0	49.2	ug/L	0.840	1.55	40	
1,1,1,2-Tetrachloroethane	50.0	51.3	ug/L	0.276	2.51	40	
Tetrachloroethene	50.0	47.3	ug/L	0.252	5.32	40	
1,2,3-Trichlorobenzene	50.0	42.4	ug/L	0.491	15.2	40	
1,2,4-Trichlorobenzene	50.0	49.0	ug/L	0.645	1.93	40	
1,1,1-Trichloroethane	50.0	44.1	ug/L	0.330	11.8	40	
1,1,2-Trichloroethane	50.0	49.9	ug/L	0.170	0.218	40	
Trichloroethene	50.0	52.9	ug/L	0.214	5.88	40	
Trichlorofluoromethane	50.0	43.3	ug/L	0.378	13.5	40	
1,2,3-Trichloropropane	50.0	51.0	ug/L	0.108	1.92	40	
1,2,4-Trimethylbenzene	50.0	53.0	ug/L	1.81	6.01	40	
1,3,5-Trimethylbenzene	50.0	48.7	ug/L	1.71	2.59	40	
Vinyl Acetate	50.0	29.9	ug/L	0.175	40.2	40	*
o-Xylene	50.0	56.1	ug/L	0.480	12.1	40	
m-,p-Xylene	100	111	ug/L	0.482	10.7	40	
1,2-Dichloroethene	100	95.6	ug/L	0.193	4.36	40	
Xylenes	150	167	ug/L	0.481	11.2	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/10/2008 Sample ID: WG287382-02
Instrument ID: HPMS6 Run Time: 07:54 Method: 8260B
File ID: 6M79637 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287385 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	54.4	ug/L	0.445	8.72	20	
1,1-Dichloroethene	CCC	50.0	53.8	ug/L	0.441	7.60	20	
1,2-Dichloropropane	CCC	50.0	51.0	ug/L	0.226	1.91	20	
Ethylbenzene	CCC	50.0	52.8	ug/L	0.370	5.69	20	
Toluene	CCC	50.0	52.0	ug/L	0.950	4.07	20	
Vinyl Chloride	CCC	50.0	56.5	ug/L	0.211	12.9	20	
Bromoform	SPCC	50.0	56.4	ug/L	0.174	12.9	40	
Chlorobenzene	SPCC	50.0	52.5	ug/L	0.751	5.03	40	
Chloromethane	SPCC	50.0	54.9	ug/L	0.286	9.87	40	
1,1-Dichloroethane	SPCC	50.0	51.6	ug/L	0.490	3.10	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.7	ug/L	0.303	0.684	40	
Acetone		50.0	50.9	ug/L	0.0458	1.78	40	
Benzene		50.0	50.3	ug/L	0.695	0.560	40	
Bromobenzene		50.0	51.5	ug/L	0.511	2.93	40	
Bromochloromethane		50.0	59.8	ug/L	0.149	19.6	40	
Bromodichloromethane		50.0	64.1	ug/L	0.361	28.1	40	
Bromomethane		50.0	50.1	ug/L	0.157	0.220	40	
2-Butanone		50.0	44.6	ug/L	0.0590	10.8	40	
n-Butylbenzene		50.0	54.6	ug/L	1.83	9.16	40	
sec-Butylbenzene		50.0	52.7	ug/L	2.06	5.37	40	
tert-Butylbenzene		50.0	50.1	ug/L	0.383	0.223	40	
Carbon Disulfide		50.0	54.3	ug/L	0.674	8.67	40	
Carbon Tetrachloride		50.0	50.3	ug/L	0.353	0.540	40	
Dibromochloromethane		50.0	54.7	ug/L	0.267	9.33	40	
Chloroethane		50.0	59.9	ug/L	0.208	19.8	40	
2-Chloroethyl Vinyl Ether		50.0	50.6	ug/L	0.100	1.29	40	
2-Chlorotoluene		50.0	54.2	ug/L	1.60	8.36	40	
4-Chlorotoluene		50.0	52.1	ug/L	1.51	4.25	40	
1,2-Dibromo-3-Chloropropane		50.0	50.0	ug/L	0.0664	0.0186	40	
1,2-Dibromoethane		50.0	53.8	ug/L	0.185	7.62	40	
Dibromomethane		50.0	62.5	ug/L	0.139	24.9	40	
1,2-Dichlorobenzene		50.0	52.6	ug/L	1.01	5.15	40	
1,3-Dichlorobenzene		50.0	53.2	ug/L	1.10	6.35	40	
1,4-Dichlorobenzene		50.0	51.0	ug/L	1.15	1.97	40	
Dichlorodifluoromethane		50.0	48.6	ug/L	0.227	2.86	40	
1,2-Dichloroethane		50.0	53.1	ug/L	0.393	6.11	40	
cis-1,2-Dichloroethene		50.0	53.1	ug/L	0.220	6.25	40	
trans-1,2-Dichloroethene		50.0	49.2	ug/L	0.192	1.56	40	
1,3-Dichloropropane		50.0	49.8	ug/L	0.290	0.491	40	
2,2-Dichloropropane		50.0	50.3	ug/L	0.335	0.618	40	
cis-1,3-Dichloropropene		50.0	60.9	ug/L	0.343	21.7	40	
trans-1,3-Dichloropropene		50.0	53.7	ug/L	0.349	7.36	40	

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Login Number: L08100887 Run Date: 11/10/2008 Sample ID: WG287382-02
Instrument ID: HPMS6 Run Time: 07:54 Method: 8260B
File ID: 6M79637 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287385 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	47.2	ug/L	0.259	5.56	40	
2-Hexanone	50.0	45.3	ug/L	0.108	9.36	40	
Hexachlorobutadiene	50.0	52.4	ug/L	0.293	4.86	40	
Isopropylbenzene	50.0	50.1	ug/L	1.28	0.171	40	
p-Isopropyltoluene	50.0	54.5	ug/L	1.97	9.03	40	
4-Methyl-2-Pentanone	50.0	52.3	ug/L	0.0645	4.56	40	
Methylene Chloride	50.0	56.6	ug/L	0.222	13.2	40	
Naphthalene	50.0	44.1	ug/L	0.968	11.9	40	
n-Propylbenzene	50.0	49.7	ug/L	2.36	0.649	40	
Styrene	50.0	49.1	ug/L	0.838	1.85	40	
1,1,1,2-Tetrachloroethane	50.0	53.9	ug/L	0.290	7.74	40	
Tetrachloroethene	50.0	49.5	ug/L	0.263	0.905	40	
1,2,3-Trichlorobenzene	50.0	38.9	ug/L	0.450	22.3	40	
1,2,4-Trichlorobenzene	50.0	46.4	ug/L	0.611	7.16	40	
1,1,1-Trichloroethane	50.0	51.3	ug/L	0.384	2.63	40	
1,1,2-Trichloroethane	50.0	51.9	ug/L	0.177	3.83	40	
Trichloroethene	50.0	54.6	ug/L	0.221	9.12	40	
Trichlorofluoromethane	50.0	51.4	ug/L	0.447	2.77	40	
1,2,3-Trichloropropane	50.0	50.0	ug/L	0.106	0.00120	40	
1,2,4-Trimethylbenzene	50.0	54.4	ug/L	1.86	8.89	40	
1,3,5-Trimethylbenzene	50.0	49.3	ug/L	1.73	1.30	40	
Vinyl Acetate	50.0	31.3	ug/L	0.183	37.3	40	
o-Xylene	50.0	55.1	ug/L	0.471	10.1	40	
m-,p-Xylene	100	114	ug/L	0.496	13.8	40	
1,2-Dichloroethene	100	102	ug/L	0.206	2.35	40	
Xylenes	150	169	ug/L	0.483	12.5	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/10/2008 Sample ID: WG287400-02
Instrument ID: HPMS8 Run Time: 09:19 Method: 8260B
File ID: 8M349597 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287402 Cal ID: HPMS8 - 03-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	51.7	ug/L	0.483	3.42	20	
1,1-Dichloroethene	CCC	50.0	51.1	ug/L	0.394	2.17	20	
1,2-Dichloropropane	CCC	50.0	45.1	ug/L	0.214	9.80	20	
Ethylbenzene	CCC	50.0	47.8	ug/L	0.424	4.34	20	
Toluene	CCC	50.0	46.3	ug/L	1.15	7.30	20	
Vinyl Chloride	CCC	50.0	46.6	ug/L	0.161	6.78	20	
Bromoform	SPCC	50.0	51.0	ug/L	0.165	2.09	40	
Chlorobenzene	SPCC	50.0	46.6	ug/L	0.740	6.83	40	
Chloromethane	SPCC	50.0	48.4	ug/L	0.182	3.15	40	
1,1-Dichloroethane	SPCC	50.0	49.3	ug/L	0.450	1.46	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	38.1	ug/L	0.313	23.7	40	
Acetone		50.0	34.7	ug/L	0.0259	30.5	40	
Benzene		50.0	46.6	ug/L	0.904	6.90	40	
Bromobenzene		50.0	46.9	ug/L	0.560	6.21	40	
Bromochloromethane		50.0	51.1	ug/L	0.119	2.27	40	
Bromodichloromethane		50.0	52.8	ug/L	0.345	5.68	40	
Bromomethane		50.0	43.7	ug/L	0.154	12.7	40	
2-Butanone		50.0	38.5	ug/L	0.0397	23.1	40	
n-Butylbenzene		50.0	44.3	ug/L	1.59	11.4	40	
sec-Butylbenzene		50.0	45.1	ug/L	2.07	9.88	40	
tert-Butylbenzene		50.0	46.2	ug/L	0.345	7.60	40	
Carbon Disulfide		50.0	42.5	ug/L	0.651	14.9	40	
Carbon Tetrachloride		50.0	59.4	ug/L	0.389	18.9	40	
Dibromochloromethane		50.0	52.8	ug/L	0.250	5.54	40	
Chloroethane		50.0	42.7	ug/L	0.149	14.6	40	
2-Chloroethyl Vinyl Ether		50.0	45.9	ug/L	0.0882	8.20	40	
2-Chlorotoluene		50.0	44.4	ug/L	1.88	11.1	40	
4-Chlorotoluene		50.0	49.6	ug/L	1.86	0.801	40	
1,2-Dibromo-3-Chloropropane		50.0	42.1	ug/L	0.0638	15.7	40	
1,2-Dibromoethane		50.0	47.6	ug/L	0.189	4.84	40	
Dibromomethane		50.0	50.3	ug/L	0.111	0.583	40	
1,2-Dichlorobenzene		50.0	43.2	ug/L	0.886	13.7	40	
1,3-Dichlorobenzene		50.0	45.0	ug/L	1.05	9.91	40	
1,4-Dichlorobenzene		50.0	43.6	ug/L	1.06	12.8	40	
Dichlorodifluoromethane		50.0	39.5	ug/L	0.205	20.9	40	
1,2-Dichloroethane		50.0	52.7	ug/L	0.337	5.32	40	
cis-1,2-Dichloroethene		50.0	50.7	ug/L	0.244	1.40	40	
trans-1,2-Dichloroethene		50.0	48.8	ug/L	0.357	2.41	40	
1,3-Dichloropropane		50.0	43.3	ug/L	0.346	13.3	40	
2,2-Dichloropropane		50.0	59.0	ug/L	0.473	18.1	40	
cis-1,3-Dichloropropene		50.0	51.6	ug/L	0.366	3.14	40	
trans-1,3-Dichloropropene		50.0	49.0	ug/L	0.424	1.99	40	

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Login Number: L08100887	Run Date: 11/10/2008	Sample ID: WG287400-02
Instrument ID: HPMS8	Run Time: 09:19	Method: 8260B
File ID: 8M349597	Analyst: CAA	QC Key: STD
Workgroup (AAB#): WG287402	Cal ID: HPMS8 - 03-NOV-08	
Matrix: WATER		

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	51.5	ug/L	0.355	3.07	40	
2-Hexanone		50.0	41.1	ug/L	0.0458	17.9	40	
Hexachlorobutadiene		50.0	46.0	ug/L	0.310	8.00	40	
Isopropylbenzene		50.0	49.7	ug/L	1.28	0.647	40	
p-Isopropyltoluene		50.0	48.5	ug/L	1.79	3.05	40	
4-Methyl-2-Pentanone		50.0	43.2	ug/L	0.0394	13.7	40	
Methylene Chloride		50.0	44.9	ug/L	0.217	10.3	40	
Naphthalene		50.0	39.4	ug/L	0.815	21.3	40	
n-Propylbenzene		50.0	46.5	ug/L	2.71	7.09	40	
Styrene		50.0	50.4	ug/L	0.859	0.880	40	
1,1,1,2-Tetrachloroethane		50.0	50.6	ug/L	0.271	1.12	40	
Tetrachloroethene		50.0	50.0	ug/L	0.241	0.0644	40	
1,2,3-Trichlorobenzene		50.0	38.8	ug/L	0.427	22.4	40	
1,2,4-Trichlorobenzene		50.0	41.9	ug/L	0.550	16.2	40	
1,1,1-Trichloroethane		50.0	57.6	ug/L	0.460	15.2	40	
1,1,2-Trichloroethane		50.0	45.2	ug/L	0.176	9.62	40	
Trichloroethene		50.0	52.6	ug/L	0.220	5.29	40	
Trichlorofluoromethane		50.0	54.8	ug/L	0.468	9.54	40	
1,2,3-Trichloropropane		50.0	44.9	ug/L	0.115	10.2	40	
1,2,4-Trimethylbenzene		50.0	47.7	ug/L	2.02	4.67	40	
1,3,5-Trimethylbenzene		50.0	49.7	ug/L	1.96	0.605	40	
Vinyl Acetate		50.0	40.8	ug/L	0.215	18.4	40	
o-Xylene		50.0	49.3	ug/L	0.527	1.47	40	
m-,p-Xylene		100	96.7	ug/L	0.526	3.31	40	
1,2-Dichloroethene		100	99.5	ug/L	0.301	0.506	40	
Xylenes		150	146	ug/L	0.527	2.70	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287485-02
Instrument ID: HPMS6 Run Time: 08:26 Method: 8260B
File ID: 6M79666 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287486 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	54.0	ug/L	0.442	7.98	20	
1,1-Dichloroethene	CCC	50.0	55.3	ug/L	0.454	10.6	20	
1,2-Dichloropropane	CCC	50.0	52.5	ug/L	0.233	4.97	20	
Ethylbenzene	CCC	50.0	53.8	ug/L	0.377	7.53	20	
Toluene	CCC	50.0	49.4	ug/L	0.902	1.19	20	
Vinyl Chloride	CCC	50.0	56.8	ug/L	0.212	13.7	20	
Bromoform	SPCC	50.0	58.3	ug/L	0.179	16.7	40	
Chlorobenzene	SPCC	50.0	53.0	ug/L	0.758	5.94	40	
Chloromethane	SPCC	50.0	50.4	ug/L	0.263	0.843	40	
1,1-Dichloroethane	SPCC	50.0	49.9	ug/L	0.474	0.198	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.6	ug/L	0.309	1.23	40	
Acetone		50.0	49.4	ug/L	0.0445	1.12	40	
Benzene		50.0	51.0	ug/L	0.705	2.05	40	
Bromobenzene		50.0	52.3	ug/L	0.520	4.69	40	
Bromochloromethane		50.0	59.4	ug/L	0.148	18.9	40	
Bromodichloromethane		50.0	66.1	ug/L	0.372	32.2	40	
Bromomethane		50.0	49.8	ug/L	0.156	0.348	40	
2-Butanone		50.0	42.2	ug/L	0.0558	15.5	40	
n-Butylbenzene		50.0	55.7	ug/L	1.87	11.4	40	
sec-Butylbenzene		50.0	54.9	ug/L	2.14	9.81	40	
tert-Butylbenzene		50.0	50.9	ug/L	0.389	1.73	40	
Carbon Disulfide		50.0	53.7	ug/L	0.665	7.33	40	
Carbon Tetrachloride		50.0	51.3	ug/L	0.361	2.66	40	
Dibromochloromethane		50.0	56.2	ug/L	0.274	12.5	40	
Chloroethane		50.0	55.2	ug/L	0.191	10.3	40	
2-Chloroethyl Vinyl Ether		50.0	51.4	ug/L	0.102	2.82	40	
2-Chlorotoluene		50.0	52.0	ug/L	1.53	4.07	40	
4-Chlorotoluene		50.0	57.4	ug/L	1.66	14.8	40	
1,2-Dibromo-3-Chloropropane		50.0	50.8	ug/L	0.0675	1.70	40	
1,2-Dibromoethane		50.0	53.8	ug/L	0.185	7.61	40	
Dibromomethane		50.0	63.3	ug/L	0.140	26.6	40	
1,2-Dichlorobenzene		50.0	53.9	ug/L	1.04	7.88	40	
1,3-Dichlorobenzene		50.0	54.1	ug/L	1.12	8.11	40	
1,4-Dichlorobenzene		50.0	51.7	ug/L	1.16	3.43	40	
Dichlorodifluoromethane		50.0	42.2	ug/L	0.197	15.6	40	
1,2-Dichloroethane		50.0	53.3	ug/L	0.395	6.64	40	
cis-1,2-Dichloroethene		50.0	53.9	ug/L	0.224	7.85	40	
trans-1,2-Dichloroethene		50.0	48.8	ug/L	0.190	2.39	40	
1,3-Dichloropropane		50.0	49.3	ug/L	0.288	1.41	40	
2,2-Dichloropropane		50.0	51.4	ug/L	0.342	2.77	40	
cis-1,3-Dichloropropene		50.0	62.2	ug/L	0.351	24.5	40	
trans-1,3-Dichloropropene		50.0	52.7	ug/L	0.343	5.41	40	

CCV - Modified 03/05/2008
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Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287485-02
Instrument ID: HPMS6 Run Time: 08:26 Method: 8260B
File ID: 6M79666 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287486 Cal ID: HPMS6 - 28-OCT-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	48.5	ug/L	0.266	3.09	40	
2-Hexanone		50.0	44.2	ug/L	0.105	11.5	40	
Hexachlorobutadiene		50.0	51.9	ug/L	0.290	3.75	40	
Isopropylbenzene		50.0	51.9	ug/L	1.32	3.73	40	
p-Isopropyltoluene		50.0	56.6	ug/L	2.04	13.2	40	
4-Methyl-2-Pentanone		50.0	54.0	ug/L	0.0665	7.94	40	
Methylene Chloride		50.0	56.2	ug/L	0.221	12.5	40	
Naphthalene		50.0	44.5	ug/L	0.979	10.9	40	
n-Propylbenzene		50.0	51.5	ug/L	2.43	3.07	40	
Styrene		50.0	50.2	ug/L	0.856	0.384	40	
1,1,1,2-Tetrachloroethane		50.0	54.0	ug/L	0.290	7.91	40	
Tetrachloroethene		50.0	49.2	ug/L	0.262	1.59	40	
1,2,3-Trichlorobenzene		50.0	40.1	ug/L	0.464	19.8	40	
1,2,4-Trichlorobenzene		50.0	47.7	ug/L	0.628	4.57	40	
1,1,1-Trichloroethane		50.0	52.2	ug/L	0.390	4.32	40	
1,1,2-Trichloroethane		50.0	51.4	ug/L	0.175	2.82	40	
Trichloroethene		50.0	56.4	ug/L	0.228	12.9	40	
Trichlorofluoromethane		50.0	50.8	ug/L	0.442	1.61	40	
1,2,3-Trichloropropane		50.0	52.2	ug/L	0.111	4.31	40	
1,2,4-Trimethylbenzene		50.0	55.2	ug/L	1.88	10.5	40	
1,3,5-Trimethylbenzene		50.0	50.9	ug/L	1.78	1.79	40	
Vinyl Acetate		50.0	29.5	ug/L	0.173	41.0	40	*
o-Xylene		50.0	56.8	ug/L	0.486	13.7	40	
m-,p-Xylene		100	114	ug/L	0.499	14.4	40	
1,2-Dichloroethene		100	103	ug/L	0.207	2.73	40	
Xylenes		150	171	ug/L	0.492	14.2	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287487-02
Instrument ID: HPMS8 Run Time: 08:02 Method: 8260B
File ID: 8M349622 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287488 Cal ID: HPMS8 - 03-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	54.5	ug/L	0.509	9.05	20	
1,1-Dichloroethene	CCC	50.0	55.7	ug/L	0.429	11.4	20	
1,2-Dichloropropane	CCC	50.0	46.0	ug/L	0.218	8.05	20	
Ethylbenzene	CCC	50.0	48.8	ug/L	0.432	2.46	20	
Toluene	CCC	50.0	47.6	ug/L	1.18	4.85	20	
Vinyl Chloride	CCC	50.0	53.7	ug/L	0.186	7.38	20	
Bromoform	SPCC	50.0	52.8	ug/L	0.171	5.63	40	
Chlorobenzene	SPCC	50.0	47.3	ug/L	0.752	5.32	40	
Chloromethane	SPCC	50.0	55.8	ug/L	0.210	11.6	40	
1,1-Dichloroethane	SPCC	50.0	52.4	ug/L	0.478	4.72	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	38.7	ug/L	0.318	22.5	40	
Acetone		50.0	47.9	ug/L	0.0357	4.23	40	
Benzene		50.0	47.9	ug/L	0.931	4.21	40	
Bromobenzene		50.0	48.8	ug/L	0.582	2.47	40	
Bromochloromethane		50.0	51.5	ug/L	0.119	2.91	40	
Bromodichloromethane		50.0	55.8	ug/L	0.364	11.5	40	
Bromomethane		50.0	46.4	ug/L	0.163	7.29	40	
2-Butanone		50.0	43.0	ug/L	0.0444	14.0	40	
n-Butylbenzene		50.0	47.1	ug/L	1.69	5.85	40	
sec-Butylbenzene		50.0	46.9	ug/L	2.15	6.23	40	
tert-Butylbenzene		50.0	47.8	ug/L	0.357	4.30	40	
Carbon Disulfide		50.0	46.3	ug/L	0.708	7.49	40	
Carbon Tetrachloride		50.0	66.3	ug/L	0.434	32.7	40	
Dibromochloromethane		50.0	53.7	ug/L	0.255	7.44	40	
Chloroethane		50.0	44.7	ug/L	0.156	10.6	40	
2-Chloroethyl Vinyl Ether		50.0	45.6	ug/L	0.0877	8.70	40	
2-Chlorotoluene		50.0	50.3	ug/L	2.13	0.563	40	
4-Chlorotoluene		50.0	48.0	ug/L	1.80	4.06	40	
1,2-Dibromo-3-Chloropropane		50.0	43.2	ug/L	0.0654	13.5	40	
1,2-Dibromoethane		50.0	47.7	ug/L	0.189	4.62	40	
Dibromomethane		50.0	51.4	ug/L	0.113	2.85	40	
1,2-Dichlorobenzene		50.0	44.1	ug/L	0.906	11.8	40	
1,3-Dichlorobenzene		50.0	46.3	ug/L	1.08	7.33	40	
1,4-Dichlorobenzene		50.0	44.7	ug/L	1.09	10.5	40	
Dichlorodifluoromethane		50.0	43.9	ug/L	0.228	12.2	40	
1,2-Dichloroethane		50.0	56.1	ug/L	0.359	12.3	40	
cis-1,2-Dichloroethene		50.0	52.3	ug/L	0.252	4.61	40	
trans-1,2-Dichloroethene		50.0	52.5	ug/L	0.385	5.04	40	
1,3-Dichloropropane		50.0	44.2	ug/L	0.353	11.6	40	
2,2-Dichloropropane		50.0	64.7	ug/L	0.518	29.4	40	
cis-1,3-Dichloropropene		50.0	53.6	ug/L	0.380	7.25	40	
trans-1,3-Dichloropropene		50.0	51.7	ug/L	0.447	3.35	40	

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Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287487-02
Instrument ID: HPMS8 Run Time: 08:02 Method: 8260B
File ID: 8M349622 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG287488 Cal ID: HPMS8 - 03-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	54.7	ug/L	0.377	9.39	40	
2-Hexanone		50.0	38.3	ug/L	0.0427	23.4	40	
Hexachlorobutadiene		50.0	45.3	ug/L	0.305	9.37	40	
Isopropylbenzene		50.0	51.7	ug/L	1.33	3.42	40	
p-Isopropyltoluene		50.0	50.9	ug/L	1.88	1.86	40	
4-Methyl-2-Pentanone		50.0	41.7	ug/L	0.0381	16.5	40	
Methylene Chloride		50.0	46.4	ug/L	0.225	7.15	40	
Naphthalene		50.0	39.4	ug/L	0.816	21.2	40	
n-Propylbenzene		50.0	48.7	ug/L	2.84	2.62	40	
Styrene		50.0	51.7	ug/L	0.881	3.45	40	
1,1,1,2-Tetrachloroethane		50.0	52.8	ug/L	0.283	5.58	40	
Tetrachloroethene		50.0	52.9	ug/L	0.256	5.87	40	
1,2,3-Trichlorobenzene		50.0	40.0	ug/L	0.440	20.1	40	
1,2,4-Trichlorobenzene		50.0	43.0	ug/L	0.565	13.9	40	
1,1,1-Trichloroethane		50.0	63.2	ug/L	0.505	26.5	40	
1,1,2-Trichloroethane		50.0	46.4	ug/L	0.181	7.20	40	
Trichloroethene		50.0	53.8	ug/L	0.225	7.65	40	
Trichlorofluoromethane		50.0	61.1	ug/L	0.523	22.3	40	
1,2,3-Trichloropropane		50.0	44.7	ug/L	0.114	10.5	40	
1,2,4-Trimethylbenzene		50.0	50.1	ug/L	2.12	0.202	40	
1,3,5-Trimethylbenzene		50.0	52.7	ug/L	2.08	5.41	40	
Vinyl Acetate		50.0	40.2	ug/L	0.211	19.6	40	
o-Xylene		50.0	50.2	ug/L	0.537	0.329	40	
m-,p-Xylene		100	98.4	ug/L	0.536	1.57	40	
1,2-Dichloroethene		100	105	ug/L	0.318	4.82	40	
Xylenes		150	149	ug/L	0.536	0.938	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287498-02
Instrument ID: HPMS14 Run Time: 09:23 Method: 8260B
File ID: 14M09754 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG287499 Cal ID: HPMS14 - 11-OCT-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	57.3	ug/L	0.418	14.6	20	
1,1-Dichloroethene	CCC	50.0	52.5	ug/L	0.333	4.92	20	
1,2-Dichloropropane	CCC	50.0	52.5	ug/L	0.205	4.91	20	
Ethylbenzene	CCC	50.0	54.4	ug/L	0.447	8.83	20	
Toluene	CCC	50.0	49.9	ug/L	1.15	0.107	20	
Vinyl Chloride	CCC	50.0	54.8	ug/L	0.139	9.66	20	
Bromoform	SPCC	50.0	53.7	ug/L	0.147	7.39	40	
Chlorobenzene	SPCC	50.0	52.2	ug/L	0.785	4.32	40	
Chloromethane	SPCC	50.0	51.7	ug/L	0.170	3.42	40	
1,1-Dichloroethane	SPCC	50.0	58.9	ug/L	0.411	17.7	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.0	ug/L	0.347	2.00	40	
Acetone		50.0	45.7	ug/L	0.0249	8.52	40	
Benzene		50.0	51.3	ug/L	0.791	2.69	40	
Bromobenzene		50.0	48.0	ug/L	0.653	4.09	40	
Bromochloromethane		50.0	50.5	ug/L	0.0972	0.928	40	
Bromodichloromethane		50.0	58.3	ug/L	0.318	16.6	40	
Bromomethane		50.0	60.4	ug/L	0.138	20.9	40	
2-Butanone		50.0	43.3	ug/L	0.0338	13.5	40	
n-Butylbenzene		50.0	59.1	ug/L	1.78	18.1	40	
sec-Butylbenzene		50.0	54.8	ug/L	2.79	9.59	40	
tert-Butylbenzene		50.0	52.9	ug/L	0.467	5.85	40	
Carbon Disulfide		50.0	31.1	ug/L	0.363	37.7	40	
Carbon Tetrachloride		50.0	57.6	ug/L	0.405	15.2	40	
Dibromochloromethane		50.0	55.2	ug/L	0.275	10.4	40	
Chloroethane		50.0	50.0	ug/L	0.112	0.0920	40	
2-Chloroethyl Vinyl Ether		50.0	75.5	ug/L	0.0265	51.1	40	*
2-Chlorotoluene		50.0	54.8	ug/L	2.39	9.57	40	
4-Chlorotoluene		50.0	54.1	ug/L	1.85	8.24	40	
1,2-Dibromo-3-Chloropropane		50.0	51.3	ug/L	0.0712	2.69	40	
1,2-Dibromoethane		50.0	51.4	ug/L	0.173	2.74	40	
Dibromomethane		50.0	49.5	ug/L	0.0874	1.06	40	
1,2-Dichlorobenzene		50.0	50.4	ug/L	1.08	0.824	40	
1,3-Dichlorobenzene		50.0	51.9	ug/L	1.28	3.76	40	
1,4-Dichlorobenzene		50.0	50.9	ug/L	1.26	1.73	40	
Dichlorodifluoromethane		50.0	51.9	ug/L	0.232	3.81	40	
1,2-Dichloroethane		50.0	58.8	ug/L	0.302	17.6	40	
cis-1,2-Dichloroethene		50.0	53.5	ug/L	0.207	6.97	40	
trans-1,2-Dichloroethene		50.0	55.2	ug/L	0.192	10.3	40	
1,3-Dichloropropane		50.0	51.5	ug/L	0.307	2.91	40	
2,2-Dichloropropane		50.0	56.9	ug/L	0.375	13.8	40	
cis-1,3-Dichloropropene		50.0	54.1	ug/L	0.305	8.17	40	
trans-1,3-Dichloropropene		50.0	56.2	ug/L	0.366	12.4	40	

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Login Number: L08100887 Run Date: 11/11/2008 Sample ID: WG287498-02
Instrument ID: HPMS14 Run Time: 09:23 Method: 8260B
File ID: 14M09754 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG287499 Cal ID: HPMS14 - 11-OCT-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	55.4	ug/L	0.312	10.9	40	
2-Hexanone	50.0	47.9	ug/L	0.0772	4.26	40	
Hexachlorobutadiene	50.0	54.5	ug/L	0.396	8.92	40	
Isopropylbenzene	50.0	54.5	ug/L	1.42	8.98	40	
p-Isopropyltoluene	50.0	56.3	ug/L	2.22	12.6	40	
4-Methyl-2-Pentanone	50.0	44.6	ug/L	0.0354	10.9	40	
Methylene Chloride	50.0	45.8	ug/L	0.152	8.49	40	
Naphthalene	50.0	59.7	ug/L	0.682	19.3	40	
n-Propylbenzene	50.0	55.2	ug/L	3.27	10.4	40	
Styrene	50.0	53.3	ug/L	0.816	6.56	40	
1,1,1,2-Tetrachloroethane	50.0	57.1	ug/L	0.319	14.1	40	
Tetrachloroethene	50.0	52.9	ug/L	0.328	5.72	40	
1,2,3-Trichlorobenzene	50.0	55.0	ug/L	0.439	10.0	40	
1,2,4-Trichlorobenzene	50.0	56.6	ug/L	0.542	13.2	40	
1,1,1-Trichloroethane	50.0	60.4	ug/L	0.441	20.9	40	
1,1,2-Trichloroethane	50.0	50.9	ug/L	0.168	1.87	40	
Trichloroethene	50.0	51.5	ug/L	0.233	2.99	40	
Trichlorofluoromethane	50.0	54.7	ug/L	0.465	9.34	40	
1,2,3-Trichloropropane	50.0	49.0	ug/L	0.125	1.92	40	
1,2,4-Trimethylbenzene	50.0	57.0	ug/L	1.89	14.1	40	
1,3,5-Trimethylbenzene	50.0	57.7	ug/L	2.02	15.3	40	
Vinyl Acetate	50.0	52.3	ug/L	0.167	4.69	40	
o-Xylene	50.0	54.2	ug/L	0.506	8.41	40	
m-,p-Xylene	100	111	ug/L	0.530	10.8	40	
1,2-Dichloroethene	100	109	ug/L	0.199	8.64	40	
Xylenes	150	165	ug/L	0.518	10.0	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287338

CCV Number: WG287337-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287337-02	NA	NA	948096	1356595	1148694
Upper Limit	NA	NA	1896192	2713190	2297388
Lower Limit	NA	NA	474048	678298	574347
L08100887-05	100	DL01	586926	872254	832081
L08100887-06	100	DL01	502264	738128	680805
L08100887-10	5.00	DL01	569147	833902	720611
L08100887-12	50.0	DL01	555493	804776	735892
L08100887-13	1.00	01	674823	1014454	1014570
L08100887-14	10000	DL01	518848	759553	694065
L08100887-15	10000	DL01	510284	748548	689725
L08100887-17	50.0	DL01	495186	722261	664179
WG287338-01	1.00	01	745380	1117304	1055094
WG287338-02	1.00	01	787093	1117312	1076530
WG287338-03	1.00	01	772250	1117672	980888

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS14
Workgroup (AAB#): WG287340

CCV Number: WG287339-02
CAL ID: HPMS14 - 11-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287339-02	NA	NA	229937	470946	611319
Upper Limit	NA	NA	459874	941892	1222638
Lower Limit	NA	NA	114969	235473	305660
<u>L08100887-02</u>	<u>10000</u>	<u>DL01</u>	<u>117251</u>	<u>261775</u>	<u>361055</u>
<u>L08100887-03</u>	<u>10000</u>	<u>DL01</u>	<u>115992</u>	<u>257140</u>	<u>350778</u>
WG287340-01	1.00	01	174386	393894	536805
WG287340-02	1.00	01	200304	417225	567581
WG287340-03	1.00	01	206886	429388	588329

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287349

CCV Number: WG287348-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287348-02	NA	NA	867065	1229843	984713
Upper Limit	NA	NA	1734130	2459686	1969426
Lower Limit	NA	NA	433533	614922	492357
L08100887-04	25.0	DL02	546991	806534	662931
L08100887-07	250	DL02	591093	871950	764621
L08100887-08	2500	DL02	563543	833767	694634
L08100887-10	1.00	01	627525	945859	853176
L08100887-12	250	DL02	601600	892915	805535
L08100887-13	100	DL01	504193	732391	654239
L08100887-19	100	DL01	523476	777193	708149
L08100887-22	500	DL01	513058	746248	625212
WG287349-01	1.00	01	718635	1070795	999819
WG287349-02	1.00	01	777015	1101308	967098
WG287349-03	1.00	01	778562	1116176	991801
WG287349-04	1.00	01	448583	675567	586007

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287385

CCV Number: WG287382-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287382-02	NA	NA	870884	1223314	1128660
Upper Limit	NA	NA	1741768	2446628	2257320
Lower Limit	NA	NA	435442	611657	564330
<u>L08100887-13</u>	<u>500</u>	<u>DL02</u>	<u>649354</u>	<u>979070</u>	<u>915102</u>
L08100887-18	1.00	01	575127	827864	747256
WG287385-01	1.00	01	665158	989899	908172
WG287385-02	1.00	01	739403	1016457	896259
WG287385-03	1.00	01	752761	1029965	981431
WG287385-04	1.00	01	481973	687426	587887

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS8
Workgroup (AAB#): WG287402

CCV Number: WG287400-02
CAL ID: HPMS8 - 03-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287400-02	NA	NA	356851	635046	792353
Upper Limit	NA	NA	713702	1270092	1584706
Lower Limit	NA	NA	178426	317523	396177
<u>L08100887-09</u>	<u>1.00</u>	<u>01</u>	<u>237176</u>	<u>431965</u>	<u>553990</u>
L08100887-11	1.00	01	281058	513123	651376
L08100887-16	1.00	01	231151	430448	555216
L08100887-20	250	DL01	253250	450750	578469
L08100887-21	250	DL01	251956	449964	577411
L08100887-23	500	DL01	251201	443172	574763
L08100887-28	1.00	01	289271	531686	671777
WG287402-01	1.00	01	328911	574668	731233
WG287402-02	1.00	01	330816	579153	725653
WG287402-03	1.00	01	325878	581402	725197

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287486

CCV Number: WG287485-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287485-02	NA	NA	923863	1301976	1142136
Upper Limit	NA	NA	1847726	2603952	2284272
Lower Limit	NA	NA	461932	650988	571068
<u>L08100887-23</u>	<u>50.0</u>	<u>DL02</u>	<u>718932</u>	<u>1083172</u>	<u>983767</u>
L08100887-24	1.00	01	806172	1192589	1080386
L08100887-25	5.00	DL02	721532	1070122	981395
L08100887-26	2.50	DL02	835325	1255906	1177050
L08100887-27	1.00	01	758281	1123658	1009762
WG287486-01	1.00	01	752000	1138249	1052586
WG287486-02	1.00	01	825852	1166645	1054967
WG287486-03	1.00	01	813096	1161667	995469
WG287486-04	1.00	01	888799	1252414	1092562
WG287486-05	1.00	01	944213	1322038	1119967

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS8
Workgroup (AAB#): WG287488

CCV Number: WG287487-02
CAL ID: HPMS8 - 03-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287487-02	NA	NA	410049	735643	922615
Upper Limit	NA	NA	820098	1471286	1845230
Lower Limit	NA	NA	205025	367822	461308
<u>L08100887-20</u>	<u>2000</u>	<u>DL02</u>	<u>369099</u>	<u>645706</u>	<u>810377</u>
L08100887-21	2000	DL02	349912	613235	773945
WG287488-01	1.00	01	375629	654351	819903
WG287488-02	1.00	01	376018	659578	814588
WG287488-03	1.00	01	334477	589051	720981
WG287488-04	1.00	01	365771	624938	776276
WG287488-05	1.00	01	360518	636962	799731

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS14
Workgroup (AAB#): WG287499

CCV Number: WG287498-02
CAL ID: HPMS14 - 11-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287498-02	NA	NA	192762	401667	529077
Upper Limit	NA	NA	385524	803334	1058154
Lower Limit	NA	NA	96381	200834	264539
<u>L08100887-01</u>	<u>1.00</u>	<u>01</u>	<u>103181</u>	<u>233679</u>	<u>319320</u>
WG287499-01	1.00	01	145936	330614	453658
WG287499-02	1.00	01	180743	366338	475143
WG287499-03	1.00	01	193466	389747	520810
WG287499-04	1.00	02	171477	383859	516978
WG287499-05	1.00	02	167646	373383	499556

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287338

CCV Number: WG287337-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287337-02	NA	NA	18.86	15.31	10.83
Upper Limit	NA	NA	19.36	15.81	11.33
Lower Limit	NA	NA	18.36	14.81	10.33
L08100887-05	100	DL01	18.86	15.3	10.83
L08100887-06	100	DL01	18.85	15.3	10.82
L08100887-10	5.00	DL01	18.85	15.3	10.82
L08100887-12	50.0	DL01	18.86	15.3	10.83
L08100887-13	1.00	01	18.85	15.3	10.83
L08100887-14	10000	DL01	18.86	15.3	10.83
L08100887-15	10000	DL01	18.86	15.3	10.83
L08100887-17	50.0	DL01	18.86	15.3	10.83
WG287338-01	1.00	01	18.85	15.3	10.82
WG287338-02	1.00	01	18.86	15.3	10.82
WG287338-03	1.00	01	18.85	15.3	10.82

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS14
Workgroup (AAB#): WG287340

CCV Number: WG287339-02
CAL ID: HPMS14 - 11-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287339-02	NA	NA	17.15	14.35	10.74
Upper Limit	NA	NA	17.65	14.85	11.24
Lower Limit	NA	NA	16.65	13.85	10.24
L08100887-02	10000	DL01	17.149	14.35	10.743
L08100887-03	10000	DL01	17.149	14.35	10.743
WG287340-01	1.00	01	17.149	14.35	10.743
WG287340-02	1.00	01	17.149	14.35	10.743
WG287340-03	1.00	01	17.149	14.35	10.743

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287349

CCV Number: WG287348-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287348-02	NA	NA	18.86	15.3	10.83
Upper Limit	NA	NA	19.36	15.8	11.33
Lower Limit	NA	NA	18.36	14.8	10.33
L08100887-04	25.0	DL02	18.86	15.3	10.83
L08100887-07	250	DL02	18.86	15.3	10.83
L08100887-08	2500	DL02	18.86	15.3	10.82
L08100887-10	1.00	01	18.86	15.3	10.83
L08100887-12	250	DL02	18.86	15.3	10.83
L08100887-13	100	DL01	18.86	15.3	10.83
L08100887-19	100	DL01	18.86	15.3	10.83
L08100887-22	500	DL01	18.86	15.3	10.83
WG287349-01	1.00	01	18.86	15.29	10.83
WG287349-02	1.00	01	18.85	15.3	10.82
WG287349-03	1.00	01	18.86	15.3	10.83
WG287349-04	1.00	01	18.86	15.3	10.83

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287385

CCV Number: WG287382-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287382-02	NA	NA	18.86	15.3	10.83
Upper Limit	NA	NA	19.36	15.8	11.33
Lower Limit	NA	NA	18.36	14.8	10.33
<u>L08100887-13</u>	<u>500</u>	<u>DL02</u>	<u>18.86</u>	<u>15.3</u>	<u>10.83</u>
L08100887-18	1.00	01	18.86	15.3	10.83
WG287385-01	1.00	01	18.86	15.29	10.83
WG287385-02	1.00	01	18.86	15.29	10.82
WG287385-03	1.00	01	18.86	15.29	10.82
WG287385-04	1.00	01	18.86	15.3	10.83

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS8
Workgroup (AAB#): WG287402

CCV Number: WG287400-02
CAL ID: HPMS8 - 03-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287400-02	NA	NA	17.87	14.86	10.98
Upper Limit	NA	NA	18.37	15.36	11.48
Lower Limit	NA	NA	17.37	14.36	10.48
<u>L08100887-09</u>	<u>1.00</u>	<u>01</u>	<u>17.88</u>	<u>14.85</u>	<u>10.98</u>
L08100887-11	1.00	01	17.87	14.85	10.98
L08100887-16	1.00	01	17.87	14.85	10.98
L08100887-20	250	DL01	17.87	14.85	10.98
L08100887-21	250	DL01	17.88	14.86	10.98
L08100887-23	500	DL01	17.88	14.86	10.98
L08100887-28	1.00	01	17.87	14.86	10.98
WG287402-01	1.00	01	17.87	14.86	10.98
WG287402-02	1.00	01	17.88	14.85	10.98
WG287402-03	1.00	01	17.87	14.85	10.98

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS6
Workgroup (AAB#): WG287486

CCV Number: WG287485-02
CAL ID: HPMS6 - 28-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287485-02	NA	NA	18.86	15.3	10.83
Upper Limit	NA	NA	19.36	15.8	11.33
Lower Limit	NA	NA	18.36	14.8	10.33
L08100887-23	50.0	DL02	18.86	15.3	10.83
L08100887-24	1.00	01	18.86	15.3	10.83
L08100887-25	5.00	DL02	18.86	15.3	10.83
L08100887-26	2.50	DL02	18.86	15.3	10.83
L08100887-27	1.00	01	18.85	15.3	10.82
WG287486-01	1.00	01	18.86	15.3	10.83
WG287486-02	1.00	01	18.85	15.3	10.82
WG287486-03	1.00	01	18.85	15.3	10.83
WG287486-04	1.00	01	18.85	15.3	10.82
WG287486-05	1.00	01	18.86	15.3	10.83

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS8
Workgroup (AAB#): WG287488

CCV Number: WG287487-02
CAL ID: HPMS8 - 03-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287487-02	NA	NA	17.87	14.85	10.98
Upper Limit	NA	NA	18.37	15.35	11.48
Lower Limit	NA	NA	17.37	14.35	10.48
L08100887-20	2000	DL02	17.88	14.85	10.98
L08100887-21	2000	DL02	17.88	14.85	10.98
WG287488-01	1.00	01	17.87	14.85	10.98
WG287488-02	1.00	01	17.88	14.86	10.98
WG287488-03	1.00	01	17.88	14.86	10.98
WG287488-04	1.00	01	17.87	14.85	10.98
WG287488-05	1.00	01	17.88	14.85	10.98

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08100887
Instrument ID: HPMS14
Workgroup (AAB#): WG287499

CCV Number: WG287498-02
CAL ID: HPMS14 - 11-OCT-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG287498-02	NA	NA	17.14	14.35	10.73
Upper Limit	NA	NA	17.64	14.85	11.23
Lower Limit	NA	NA	16.64	13.85	10.23
<u>L08100887-01</u>	<u>1.00</u>	<u>01</u>	<u>17.149</u>	<u>14.35</u>	<u>10.733</u>
WG287499-01	1.00	01	17.149	14.35	10.743
WG287499-02	1.00	01	17.138	14.35	10.733
WG287499-03	1.00	01	17.138	14.35	10.743
WG287499-04	1.00	02	17.138	14.35	10.733
WG287499-05	1.00	02	17.149	14.35	10.733

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

2.2 General Chemistry Data

2.2.1 Chloride Data

2.2.1.1 Summary Data

LABORATORY REPORT

00086681

L08100887

11/26/08 11:34

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: QUARTERLY EFFLUENT SAMPLES

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
EXT1-102908	L08100887-19	325.2	20	31-OCT-08
EXT2-102908	L08100887-20	325.2	10	31-OCT-08
EXT2-102908-FD	L08100887-21	325.2	10	31-OCT-08
EXT3-102908	L08100887-22	325.2	10	31-OCT-08
EXT4-102908	L08100887-23	325.2	10	31-OCT-08
EXT5-102908	L08100887-24	325.2	10	31-OCT-08
EXT6-102908	L08100887-25	325.2	10	31-OCT-08
EXT7-102908	L08100887-26	325.2	10	31-OCT-08
EXT8-102908	L08100887-27	325.2	3	31-OCT-08



Sample Number: **L08100887-19**
Client ID: **EXT1-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 12:15**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **20**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:41**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:41**
File ID: **SC081105001.016**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	810		40.0	20.0

Sample Number: **L08100887-20**
Client ID: **EXT2-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 12:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **10**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:42**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:42**
File ID: **SC081105001.017**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	660		20.0	10.0

Sample Number: **L08100887-21**
Client ID: **EXT2-102908-FD**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 12:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **10**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:43**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:43**
File ID: **SC081105001.018**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	661		20.0	10.0

Report Number: **L08100887**Report Date : **November 26, 2008****00086685**

Sample Number: **L08100887-22**
Client ID: **EXT3-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 12:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **10**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:44**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:44**
File ID: **SC081105001.021**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	648		20.0	10.0

Sample Number: **L08100887-23**
Client ID: **EXT4-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 13:05**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **10**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:45**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:45**
File ID: **SC081105001.022**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	629		20.0	10.0

Sample Number: **L08100887-24**
Client ID: **EXT5-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 12:20**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **10**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:45**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:45**
File ID: **SC081105001.023**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	230		20.0	10.0

Sample Number: **L08100887-25**
Client ID: **EXT6-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 12:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **10**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:46**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:46**
File ID: **SC081105001.024**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	772		20.0	10.0

Sample Number: **L08100887-26**
Client ID: **EXT7-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 12:55**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **10**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 09:47**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 09:47**
File ID: **SC081105001.025**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	779		20.0	10.0

Sample Number: **L08100887-27**
Client ID: **EXT8-102908**
Matrix: **Water**
Workgroup Number: **WG286940**
Collect Date: **10/29/2008 13:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **325.2**
Analytical Method: **325.2**
Analyst: **DIH**
Dilution: **3**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **11/05/2008 10:03**
Cal Date: **11/05/2008 09:37**
Run Date: **11/05/2008 10:03**
File ID: **SC081105001.053**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chloride	16887-00-6	124		6.00	3.00

2.2.1.2 QC Summary Data

Example Chloride Calculations

$$(\text{absorbance} - \text{intercept}) / (\text{slope} * \text{dilution}) = \text{mg/L}$$

where:

absorbance = reading from the spectrophotometer

intercept = calculated from calibration standard absorbencies

slope = calculated from calibration standard absorbencies

dilution = dilution of the distillate in decimal form (ex. 1/5 dilution = 0.2)

00086693

Microbac Laboratories Inc.

Data Checklist

Date: 05-NOV-2008

Analyst: DIH

Analyst: NA

Method: CL

Instrument: SC

Curve Workgroup: NA

Runlog ID: _____

Analytical Workgroups: WG286941 WG286940

Calibration/Linearity	11/5/2008
Second Source Check	X
ICV/CCV (std)	X
ICB/CCB	X
Blank	X
LCS/LCS Dup	X
MS/MSD	X
Duplicate	X
Upload Results	X
Client Forms	X
QC Violation Sheet	X
Case Narratives	X
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	DIH
Secondary Reviewer	
Comments	

Primary Reviewer:
10-NOV-2008

Secondary Reviewer:



Analytical Method: 325.2

AAB#: WG286940

Login Number: L08100887

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
EXT2-102908-FD	10/29/08	10/31/08	11/05/08	28	6.88	11/05/08	28	6.88	
EXT4-102908	10/29/08	10/31/08	11/05/08	28	6.86	11/05/08	28	6.86	
EXT6-102908	10/29/08	10/31/08	11/05/08	28	6.88	11/05/08	28	6.88	
EXT7-102908	10/29/08	10/31/08	11/05/08	28	6.87	11/05/08	28	6.87	
EXT5-102908	10/29/08	10/31/08	11/05/08	28	6.89	11/05/08	28	6.89	
EXT8-102908	10/29/08	10/31/08	11/05/08	28	6.87	11/05/08	28	6.87	
EXT1-102908	10/29/08	10/31/08	11/05/08	28	6.89	11/05/08	28	6.89	
EXT2-102908	10/29/08	10/31/08	11/05/08	28	6.88	11/05/08	28	6.88	
EXT3-102908	10/29/08	10/31/08	11/05/08	28	6.87	11/05/08	28	6.87	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

METHOD BLANK SUMMARY

Login Number: L08100887
 Blank File ID: SC081105001.010
 Prep Date: 11/05/08 09:38
 Analyzed Date: 11/05/08 09:38
 Analyst: DIH

Work Group: WG286940
 Blank Sample ID: WG286940-01
 Instrument ID: SMARTCHEM
 Method: 325.2

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG286940-02	SC081105001.011	11/05/08 09:38	01
LCS2	WG286940-03	SC081105001.012	11/05/08 09:39	01
EXT1-102908	L08100887-19	SC081105001.016	11/05/08 09:41	DL01
EXT2-102908	L08100887-20	SC081105001.017	11/05/08 09:42	DL01
EXT2-102908-FD	L08100887-21	SC081105001.018	11/05/08 09:43	DL01
EXT3-102908	L08100887-22	SC081105001.021	11/05/08 09:44	DL01
EXT4-102908	L08100887-23	SC081105001.022	11/05/08 09:45	DL01
EXT5-102908	L08100887-24	SC081105001.023	11/05/08 09:45	DL01
EXT6-102908	L08100887-25	SC081105001.024	11/05/08 09:46	DL01
EXT7-102908	L08100887-26	SC081105001.025	11/05/08 09:47	DL01
DUP	WG286940-05	SC081105001.034	11/05/08 09:52	01
EXT8-102908	L08100887-27	SC081105001.053	11/05/08 10:03	DL01

Report Name: BLANK_SUMMARY
 PDF File ID: 1245637
 Report generated 11/10/2008 14:58



Login Number: L08100887 Prep Date: 11/05/08 09:38 Sample ID: WG286940-01
Instrument ID: SMARTCHEM Run Date: 11/05/08 09:38 Prep Method: 325.2
File ID: SC081105001.010 Analyst: DIH Method: 325.2
Workgroup (AAB#): WG286940 Matrix: Water Units: mg/L
Contract #: DACA56-94-D-0020 Cal ID: SMARTC - 05-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Chloride	1.00	2.00	1.00	1	U

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1245638
10-NOV-2008 14:58



Login Number: L08100887 Analyst: DIH Prep Method: 325.2
Instrument ID: SMARTCHEM Matrix: Water Method: 325.2
Workgroup (AAB#): WG286940 Units: mg/L
QC Key: STD Lot #: STD28859
Sample ID: WG286940-02 LCS File ID: SC081105001.011 Run Date: 11/05/2008 09:38
Sample ID: WG286940-03 LCS2 File ID: SC081105001.012 Run Date: 11/05/2008 09:39

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Chloride	50.0	50.6	101	50.0	46.8	93.5	7.90	90 - 110	10	

* FAILS %REC LIMIT
FAILS RPD LIMIT

SAMPLE_MS - Modified 06/27/2008
PDF File ID: 1245640
Report generated: 11/10/2008 14:58



2.2.1.3 Raw Data

WORKGROUP: WG286940

wg286941

SMARTCHEM RUN LOG

Daily Check

- ☒ Lamp On
☒ Probe Rinse Full
☒ DI Water > 1/2 Full
☒ Wash Solution > 1/2 Full
☐ NO3 Reagent bottle connected / purged
☐ NO3 pH adj to pH 5-9
- ☒ WBL Run
☒ Reagents Full
☒ Dilution H₂O Full
☒ Waste Container Check

- 1) Workgroup _____
 Plan # 20081105001
- 2) Workgroup _____
 Plan # _____
- 3) Workgroup _____
 Plan # _____

Analyte	1	2	3
User Prepared Curve	CL		
SC Prepared Curve			
Position			
1-1	ICV 70		
1-2	BLK		
1-3	LCS 50		
1-4	LCS DUP		
1-5	10-871-01		
1-6	03		
1-7	10-872-01	1/5	
1-8	10-887-19	1/20	
1-9	20	1/10	
1-10	21		
1-11	22		
1-12	23		
1-13	24		
1-14	25		
1-15	26		
1-16	27		
1-17	10-890-01		
1-18	03		
1-19	05		
1-20	07		
1-21	09		
1-22	DUP		
2-1	MS		
2-2	BLK		
2-3	LCS		

Position	Analyte	1	2	3
2-4	LCS DUP			
2-5	10-890-11			
2-6	13			
2-7	10-891-01	1/3		
2-8	11-039-01	1/500		
2-9	11-034-01	1/10		
2-10	DUP 01			
2-11	MS 10			
2-12	MSD 12			
2-13	03			
2-14	05			
2-15	07			
2-16	14			
2-17	R 10-887-27	1/3		
2-18				
2-19				
2-20				
2-21				
2-22				
2-23				
2-24				
2-25				
2-26				
3-1				
3-2				

NOTES:

- * Run NO2 std on NO3 runs
- * LCS/LCS Dup all parameters
- * MS/MSD (NO3, TKN, NH3)

DCN#77323



Heanna Roberts

Approved: November 15, 2008

WORKGROUP: WG286940

SMARTCHEM RUN LOG

Analyte	1	2	3
Position			
3-3			
3-4			
3-5			
3-6			
3-7			
3-8			
3-9			
3-10			
3-11			
3-12			
3-13			
3-14			
3-15			

Analyte	1	2	3
Position			
3-16			
3-17			
3-18			
3-19			
3-20			
3-21			
3-22			
3-23			
3-24			
3-25			
3-26			
3-27			
3-28			

☒ Chloride EPA 325.2/SM 4500-Cl⁻ E
☐ Sulfate EPA 375.4
☐ Alkalinity EPA 310.2
☐ Nitrate-Nitrite EPA 353.2/SM 4500-NO₃ F

☐ Ammonia EPA 350.1/SM 4500-NH₃ B
☐ TKN EPA 351.2
☐ Phos EPA 365.4

Analyte			
SOP & Revision	CL		
Curve Stock (SC made)	K 3252		
Curve ID (user made)	std 29477		
ICV	std 29478		
CCV	std 29479		
LCS	std 29480		
MS	std 26433		
	Dilution 0.12/10(1000)=20		

Comments: _____

Analyst: _____

Date: 11/5/08

DCN#77323



Approved: November 15, 2008

MICROBAC (OVD)

SMARTCHEM REPORT

UNITS: MG/L

Method : WCLA -Unit [mg/L] - EPA 325.2 Chloride

Smp#[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
DIL-1	RBL	0.00	0.3174	0.00	R	9:31:09 AM
DIL-1	RBL	0.00	0.3208	0.00	R	9:31:27 AM
DIL-1	RBL	0.00	0.3164	0.00	R	9:32:21 AM
DIL-1	Std-1	0.00	-0.0086	0.00	INV	9:32:39 AM
SR5-1	Std-2	2.00	0.0132	0.00		9:33:33 AM
SR5-2	Std-3	10.00	0.0802	0.00		9:33:51 AM
SR5-3	Std-4	20.00	0.1676	0.00		9:34:45 AM
SR5-4	Std-5	40.00	0.3305	0.00		9:35:03 AM
SR5-5	Std-6	60.00	0.4968	0.00		9:35:57 AM
SR5-6	Std-7	80.00	0.6331	0.00		9:36:15 AM
ST-1	Std-8	100.00	0.8005	0.00		9:37:10 AM
1	ICV 70	71.89	0.5828	0.00		9:37:27 AM
2	WG286940-01 BLANK	0.93	0.0025	0.00		9:38:21 AM
3	WG286940-02 LCS	50.62	0.4157	0.00		9:38:39 AM
4	WG286940-03 LCSDUP	46.77	0.3849	0.00		9:39:33 AM
5	L08100871-01	7.41	0.0584	0.00		9:39:51 AM
6	L08100871-02 O3	40.97	0.3381	0.00		9:40:45 AM
7	L08100872-01 (5)	82.96	0.6677	0.00		9:41:03 AM
8	L08100887-19 (20)	40.50	0.3343	0.00		9:41:57 AM
9	L08100887-20 (10)	65.97	0.5368	0.00		9:42:15 AM
10	L08100887-21 (10)	66.14	0.5381	0.00		9:43:10 AM
ST-2	CCV (50 mg/L)	48.73	0.4006	97.46		9:43:28 AM
ST-3	CCB (0 mg/L)	0.50	-0.0012	0.00	INV	9:44:22 AM
11	L08100887-22 (10)	64.80	0.5277	0.00		9:44:40 AM
12	L08100887-23 (10)	62.90	0.5128	0.00		9:45:34 AM
13	L08100887-24 (10)	22.98	0.1902	0.00		9:45:52 AM
14	L08100887-25 (10)	77.23	0.6239	0.00		9:46:46 AM
15	L08100887-26 (10)	77.95	0.6294	0.00		9:47:04 AM
16	L08100887-27 (10)	10.71X	0.0867	0.00		9:47:58 AM
17	L08100890-01	39.95	0.3298	0.00		9:48:16 AM
18	L08100890-03	3.94	0.0286	0.00		9:49:10 AM
19	L08100890-05	18.37	0.1515	0.00		9:49:28 AM

Report Date : 11/05/2008

Run Date : 11/5/2008

Operator : WESTCO

Plan # : 20081105001

Plan Description : CL-A-DIH/11/5/2008

Heanna Roberts

Approved: November 15, 2008

MICROBAC (OVD)
SMARTCHEM REPORT
 UNITS: MG/L

Method : WCLA -Unit [mg/L] - EPA 325.2 Chloride

Smp#[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
20	L08100890-07	2.46	0.0158	0.00		9:50:22 AM
ST-2	CCV (50 mg/L)	47.58	0.3914	95.16		9:50:40 AM
ST-3	CCB (0 mg/L)	-0.33	-0.0084	0.00	INV,LL	9:51:34 AM
21	L08100890-09	33.83	0.2799	0.00		9:51:52 AM
22	WG286940-05 DUP	31.73	0.2627	0.00		9:52:46 AM
23	WG286940-06 MS	54.12	0.4436	0.00		9:53:04 AM
24	WG286941-01 BLANK	0.32	-0.0028	0.00	INV	9:53:58 AM
25	WG286941-02 LCS	49.18	0.4042	0.00		9:54:16 AM
26	WG286941-03 LCSDUP	49.15	0.4040	0.00		9:55:10 AM
27	L08100890-11	61.00	0.4979	0.00		9:55:28 AM
28	L08100890-13	62.85	0.5124	0.00		9:56:22 AM
29	L08100891-01 (3)	92.90	0.7428	0.00		9:56:40 AM
30	L08110039-01 (500)	92.41	0.7391	0.00		9:57:34 AM
ST-2	CCV (50 mg/L)	49.72	0.4085	99.43		9:57:52 AM
ST-3	CCB (0 mg/L)	-0.05	-0.0060	0.00	INV,LL	9:58:46 AM
31	L08110034-01 (10)	37.61	0.3108	0.00		9:59:04 AM
32	WG286941-05 (5) DUP	37.02	0.3060	0.00		9:59:58 AM
33	L08110034-10 (5) MS	40.92	0.3377	0.00		10:00:16 AM
34	L08110034-12 (10) MS	41.62	0.3434	0.00		10:01:10 AM
35	L081100034-03	26.26	0.2175	0.00		10:01:28 AM
36	L081100034-05	14.91	0.1223	0.00		10:02:22 AM
37	L081100034-07	11.61	0.0943	0.00		10:02:40 AM
38	L081100034-14	13.81	0.1130	0.00		10:03:34 AM
39	L08100887-27 (3)	41.22	0.3401	0.00		10:03:52 AM
40	ID 40	0.28	-0.0031	0.00	INV	10:04:46 AM
ST-2	CCV (50 mg/L)	50.91	0.4180	101.81		10:05:04 AM
ST-3	CCB (0 mg/L)	0.03	-0.0053	0.00	INV	10:05:58 AM

Report Date : 11/05/2008 Run Date : 11/5/2008 Operator : WESTCO Plan # : 20081105001
 Plan Description : CL-A-DIH/11/5/2008

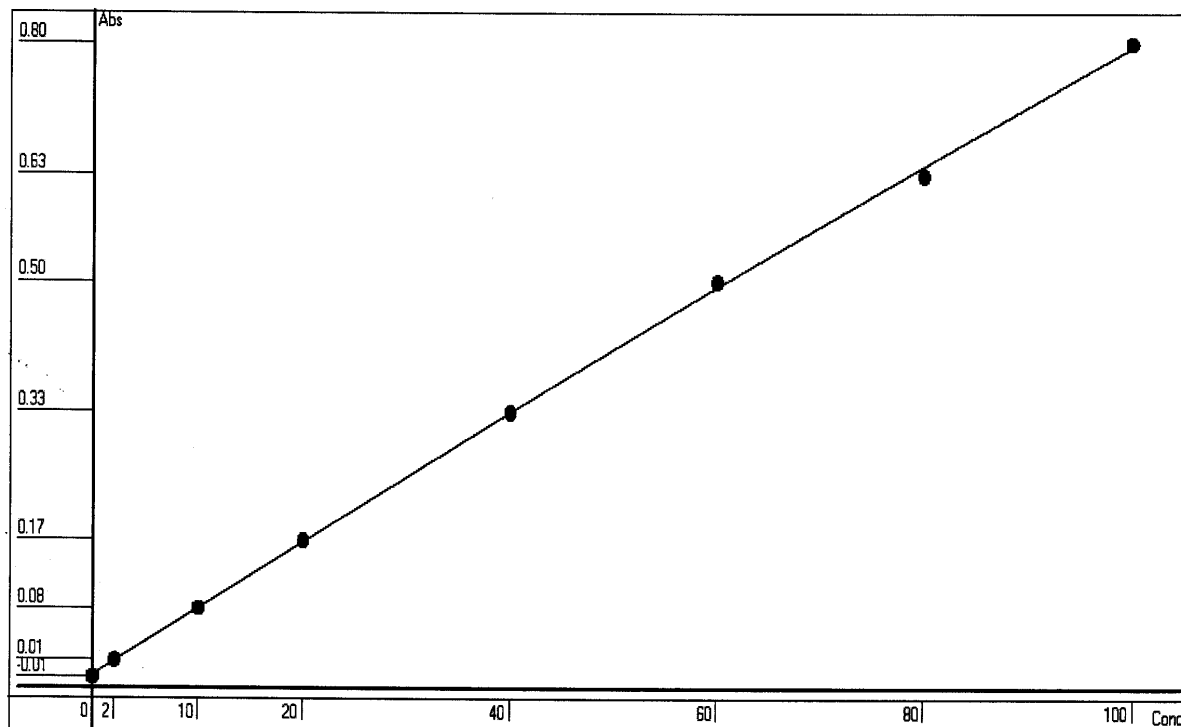
Heanna Roberts

Approved: November 15, 2008

Calibrant Report - WCLA -

Calib Lot #:010104 Exp Date:1/1/2010 User:Westco Scientific

Plan #: 20081105001 Description : [CL-A-DIH/11/5/2008] Unit



Point	OD	Conc	Recalc Conc	% Error
1	-0.0086	0	-0.3521	-35.21
2	0.0132	2	2.1600	8.00
3	0.0802	10	9.9530	-0.47
4	0.1676	20	20.2829	1.41
5	0.3305	40	40.0324	0.08
6	0.4968	60	60.8600	1.43
7	0.6331	80	78.4321	-1.96
8	0.8005	100	100.6322	0.63

Conc= +12.1647*Abso^2 +115.1774*Abso +0.6375 R²=0.9996

RBL
0.3169
0

Report Date 11/5/2008 Run Date 11/5/2008

Heanna Roberts

Approved: November 15, 2008

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
November 26, 2008

ADC - ANTHONY D. CANTER	AJF - AMANDA J. FICKIESEN	ALB - ANNIE L. BROWN
AM - ALISON J. MILLER	AML - ANTHONY M. LONG	BRG - BRENDA R. GREGORY
CAA - CASSIE A. AUGENSTEIN	CAF - CHERYL A. FLOWERS	CAH - CHARLES A. HALL
CEB - CHAD E. BARNES	CLC - CHRYS L. CRAWFORD	CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEPHENS	CPD - CHAD P. DAVIS	CSH - CHRIS S. HILL
CTB - CHRIS T. BUCINA	DDE - DEBRA D. ELLIOTT	DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG	DGB - DOUGLAS G. BUTCHER	DIH - DEANNA I. HESSON
DLB - DAVID L. BUMGARNER	DLP - DOROTHY L. PAYNE	DLR - DIANNA L. RAUCH
DR - DEANNA ROBERTS	DSF - DEBRA S. FREDERICK	EAB - EDDIE A. BYERS
ECL - ERIC C. LAWSON	ED - EMILY E. DECKER	EDA - ERIN D. AGEES
EDH - ETHAN D. MORRIS	ERP - ERIN R. PORTER	FJB - FRANCES J. BOLDEN
HAV - HEMA VILASAGAR	HJR - HOLLY J. REED	JBK - JEREMY B. KINNEY
JC - JOHN L. CONLEY	JDH - JUSTIN D. HESSON	JKP - JACQUELINE K. PARSONS
JKT - JANE K. THOMPSON	JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES
JYH - JI Y. HU	KEB - KATHRYN E. BARNES	KHR - KIM H. RHODES
KJW - KATIE J. WIEFERICH	KRA - KATHY R. ALBERTSON	LHT - LANCE H. THOMPSON
LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA	MDA - MIKE D. ALBERTSON
MDC - MICHAEL D. COCHRAN	MES - MARY E. SCHILLING	MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON	NPM - NATHANIEL P. MILLER
PDM - PIERCE D. MORRIS	RAH - ROY A. HALSTEAD	RB - ROBERT BUCHANAN
REK - ROBERT E. KYER	RLK - ROBIN L. KLINGER	RWC - RODNEY W. CAMPBELL
SAV - SARAH A. VANDENBERG	SDH - SHANA D. HINYARD	SDL - SHELLY D. LENT
SLM - STEPHANIE L. MOSSBURG	SLP - SHERI L. PFALZGRAF	SMH - SHAUNA M. HYDE
TDH - TRICIA D. HUCK	TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS	VC - VICKI COLLIER	WTD - WADE T. DELONG

List of Valid Qualifiers

November 26, 2008

Qualifier: STD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B3	Target analyte detected in calibration blank at or above the method reporting limit
C	Confirmed by GC/MS
CG	Confluent growth
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
E1	Concentration estimated. Analyte exceeded calibration range. Insufficient sample for reanalysis.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to matrix.
E3	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration is disproportionate to the spike level.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria fail. See narrative.
Q1	Sample integrity was not maintained. See report narrative.
QNS	Quantity of sample not sufficient to perform analysis
R1	Duplicate RPD/RSD exceeded the method acceptance limit.
R2	Duplicate RPD/RSD exceeded the laboratory acceptance limit.
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Undetected; the concentration is below the reported MDL.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	CCV recovery was above method acceptance limits. Insufficient volume for sample reanalysis.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

***Special Notes for Organic Analytes



Qualkey: STD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.





Shaw® Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Chain of Custody

Laboratory Name: MICROBAC		Address: 158 Starlite Dr MARIETTA, OH		Contact: Stephanie Mossburg													
Project Name: LHAAP		Project Location: KARNACK, TX		Analysis and Method Desired (Indicate separate containers)													
Project No.: 117591.00053002		Project Contact: Jennifer Hoang		Project Telephone No.: 713-996-4408													
Point of Contact: Scott Beesinger		Project Manager/Supervisor: Praveen Srivastava		Telephone No.: 903-679-3448													
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	NOA	Peachlorate							
1	ICT14A-102908	10/24/08	8:42		✓	W	site 18/24	3	2	1							
2	ICT14B-102908	10/24/08	8:47		✓	W	site 18/24	3	2	1							
3	ICT14C-102908	10/24/08	8:51		✓	W	site 18/24	3	2	1							
4	ICT14D-102908	10/24/08	8:55		✓	W	site 18/24	3	2	1							
5	EW01-102908	10/24/08	8:22		✓	W	site 18/24	3	2	1							
6	EW01-102908-FD	10/24/08	8:22		✓	W	site 18/24	3	2	1							
7	18WW17-102908	10/24/08	9:05		✓	W	site 18/24	3	2	1							
8	ICT4-102908	10/24/08	9:50		✓	W	site 18/24	3	2	1							
9	TRIP BLANK	10/24/08			✓	W											
10																	
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions									
<i>Scott Beesinger</i>		10/30/08 8:00						STANDARD TAT									
								FedEx Airbill No.:									
				Laboratory <i>Env Probi</i>		10-31-08 0918		Sampler's Signature <i>Scott Beesinger</i>									
TAT: _____ Standard _____ Rush Date _____		Seals Intact? _____ Y _____ N _____		Received Good Condition _____ Y _____ N _____ Cold _____													



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Houston, TX 77042
(713) 996-4400

Chain of Custody

Laboratory Name: MICROBAC				Address: 158, STARLITE DR. MARIETTA, OH.				Contact: STEPHANIE MOSSBURG								
Project Name: LHAAP				Project Location: KARNACK, TX.				Analysis and Method Desired (Indicate separate containers)				Remarks				
Project No.: 117591.0005B002				Project Contact: JENNIFER HOANG		Project Telephone No.: 713-996-4408		Number of Containers	VOA	PERC+LOCATE						
Point of Contact: Scott Beesinger				Project Manager/Supervisor: Praveen Srivastava												
Telephone No.: 903-679-3448																
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location									
1	~~ICT 1-102908~~	~~10/24/08~~			~~✓~~	~~W~~	~~Site 18/24~~	~~3~~	~~2~~	~~1~~						
2	ICT 7-102908	10/24/08	8:18		✓	W	Site 18/24	3	2	1						
3	ICT 8-102908	10/24/08	8:30		✓	W	Site 18/24	3	2	1						
4	ICT 8-102908-FD	10/24/08	8:30		✓	W	Site 18/24	3	2	1						
5	ICT 11-102908	10/24/08	8:10		✓	W	Site 18/24	3	2	1						
6	ICT 12B-102908	10/24/08	9:40		✓	W	Site 18/24	3	2	1						
7	ICT 12C-102908	10/24/08	9:35		✓	W	Site 18/24	3	2	1						
8	ICT 12D-102908	10/24/08	9:30		✓	W	Site 18/24	3	2	1						
9	ICT 12E-102908	10/24/08	9:25		✓	W	Site 18/24	3	2	1						
10	ICT 13F-102908	10/24/08	9:12		✓	W	Site 18/24	3	2	1						
Transfers Relinquished By (signature)				Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions						
<i>Scott Beesinger</i>				10/30/08 8:00						STANDARD TAT						
										FedEx Airbill No.:						
						Laboratory <i>Env Pollu</i>		10-3108		Sampler's Signature <i>Scott Beesinger</i>						
TAT: ☐ Standard ☐ Rush Date				Seals Intact? ☐ Y ☐ N		Received Good Condition ☐ Y ☐ N ☐ Cold										



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Chain of Custody

Laboratory Name: Microbac		Address: 158 Starlite Dr. Marietta, OH		Contact: Stephanie Mossburg													
Project Name: LHAAP		Project Location: Karnack, TX		Analysis and Method Desired (Indicate separate containers)													
Project No.: 117591.0005B002		Project Contact: Jennifer Huang		Project Telephone No.: 713-996-4408													
Point of Contact: Scott Beesinger		Project Manager/Supervisor: Praveen Srivastava															
Telephone No.: 903-679-3448																	
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	Vol	CHLORIDE	PERCHLORATE						
1	EXT 1 - 102908	10/24/08	12:15		✓	W	site 1b	4	2	1	1						
2	EXT 2 - 102908	10/24/08	12:30		✓	W	site 1b	4	2	1	1						
3	EXT 2 - 102908 - FD	10/24/08	12:30		✓	W	site 1b	4	2	1	1						
4	EXT 3 - 102908	10/24/08	12:50		✓	W	site 1b	4	2	1	1						
5	EXT 4 - 102908	10/24/08	1:05		✓	W	site 1b	4	2	1	1						
6	EXT 5 - 102908	10/24/08	12:20		✓	W	site 1b	4	2	1	1						
7	EXT 6 - 102908	10/24/08	12:35		✓	W	site 1b	4	2	1	1						
8	EXT 7 - 102908	10/24/08	12:55		✓	W	site 1b	4	2	1	1						
9	EXT 8 - 102908	10/24/08	1:10		✓	W	site 1b	4	2	1	1						
10	TRIP Blank	10/24/08			✓	W		2	2								
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions									
<i>Scott Beesinger</i>		10/30/08 8:00						Standard TAT									
								FedEx Airbill No.:									
				Laboratory: <i>Env Power</i>		10-31-08 09/18		Sampler's Signature: <i>Scott Beesinger</i>									
TAT: ☐ Standard ☐ Rush Date		Seals Intact? ☐ Y ☐ N		Received Good Condition ☐ Y ☐ N ☐ Cold													

Client: <u>SHAW Longhorn</u>			
Workorder Number: <u>B</u>			
Date Received: <u>10-31-08</u>			
Delivered by: ☐ Fedx ☒ UPS ☐ Client ☐ Courier Time: <u>0918</u>			
Opened by: <u>ERP</u>			
IR Temp Gun: ☐ D ☒ G			
Logged by: <u>RLK</u> L <u>08100887</u>			

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
150	2	1266V7250199697807	5717/5718	
2233	3	1266V7250195764812	5719	

Inspection Checklist

	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	☒	☒		
Were custody seals intact?	☒			
Were cooler temperatures in range of 0 - 6?	☒			
Was ice present?	☒			
Were COC's received/ information complete/signed and dated?	☒			
Were sample containers and labels intact and match COC?	☒			
Were the correct containers and volumes received?	☒			
Were correct preservatives used? (water only)			☒	
Were pH ranges acceptable? (voa's excluded)			☒	
Were VOA samples free of headspace (< 6mm)?			☒	
Were samples received within EPA hold times?	☒			

Discrepancy/Comments/Other Problems

Distribution

Name of Microbac representative:
Client/Company:
Person Contacted:
Date contacted:

Resolution/other comments:

Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-13	518605	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-23	518625	CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:02	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-11	518603	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

Samplenum **Container ID** **Products**
L08100887-18 518610 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-21 518613 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-22 518614 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

Samplenum **Container ID** **Products**
L08100887-19 518621 CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:02	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

Samplenum **Container ID** **Products**
L08100887-22 518624 CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:02	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

Samplenum **Container ID** **Products**
L08100887-10 518602 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

Samplenum **Container ID** **Products**
L08100887-14 518606 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-23 518615 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-26 518618 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-28	518620	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-20	518622	CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:02	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-25	518627	CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:03	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-07	518599	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-15	518607	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-27	518619	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

Samplenum **Container ID** **Products**
L08100887-21 518623 CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:02	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

Samplenum **Container ID** **Products**
L08100887-27 518629 CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:03	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

Samplenum **Container ID** **Products**
L08100887-01 518593 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:30	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:30	JKT	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-03	518595	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:30	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:30	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-17	518609	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-19	518611	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

Samplenum **Container ID** **Products**
L08100887-05 518597 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-09 518601 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-24 518626 CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:02	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-26	518628	CL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	31-OCT-2008 15:04	RLK	
2	ANALYZ	W1	WET	05-NOV-2008 08:03	DIH	RLK
3	STORE	WET	A1	06-NOV-2008 07:55	JKT	DIH

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-04	518596	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-06	518598	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-08	518600	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-16	518608	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-24	518616	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887

Account: 2773

Project: 2773.025

Samples: 28

Due Date: 11-NOV-2008

Samplenum **Container ID** **Products**
L08100887-25 518617 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:35	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:32	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-02 518594 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:30	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:33	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:30	JKT	MRT

Samplenum **Container ID** **Products**
L08100887-12 518604 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08100887**Account:** 2773**Project:** 2773.025**Samples:** 28**Due Date:** 11-NOV-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08100887-20	518612	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	31-OCT-2008 14:55	RLK	
2	ANALYZ	V1	ORG4	31-OCT-2008 16:34	AM	RLK
3	STORE	ORG4	A1	13-NOV-2008 12:31	JKT	MRT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Quick Facts



Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

Franklin Corporate Center

2000 Corporate Drive, Suite 350

Wexford, PA 15090

Phone: (724) 934-5030

FAX: (724) 934-5088

www.microbac.com

President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate -Wide: 18 Divisions, 28 locations across 15 states



Microbac Laboratories Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800-373-4071
Fax: 740-373-4835
Email: OVL@microbac.com



Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.), in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.



158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • <http://www.microbac.com>

Laboratory Report Number: L08120101

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	<i>Team Chemist/Data Specialist</i>	kalbertson@microbac.com
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Jacqueline Parsons	<i>Team Assistant</i>	jparsons@microbac.com

This report was reviewed on December 15, 2008.

A handwritten signature in cursive script that reads "Stephanie Mossburg".

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. 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. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on December 15, 2008.

A handwritten signature in cursive script that reads "David E. Vandenberg".

David Vandenberg - Managing Director

State of origin: Texas

Accrediting authority: Texas Commission on Environmental Quality ID:T104704252-07-TX

QAPP: Microbac (OVD) LQAP

This report contains a total of 358 pages.

Look closer. Go further. Do more.



Microbac REPORT L08120101
PREPARED FOR Shaw E I, Inc.
WORK ID:

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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08120101

CHAIN OF CUSTODY: The chain of custody numbers were 5741, 5742 and 5743

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 3 degrees C.

SAMPLE MANAGEMENT: All samples received were intact. No additional bottle was received for ID 49WW07-120208FD. The lab will use volume from the parent per the client. Sample ID 49WW08-120308 was received but was not listed on the COC. The sample was logged per the client.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Approved: 05-DEC-08
<i>Stephanie Mossburg</i>

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) Cleanup methods, and
- e) If required for the project, tentatively identified compounds (TICs)

R4 Surrogate recovery data including:

- a) Calculated recovery (%R) for each analyte, and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms FOR laboratory control samples (LCSs) including:

- a) LCS spiking amount,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %R and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;

R10 Other problems or anomalies.

The exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, If applicable: ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

MAREN M. BEERY



Metals Supervisor

December 11, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120101
 Project Name: 798-LONGHORN
 Method: 6010
 Prep Batch Number(s): WG289708
 Reviewer Name: MAREN M. BEERY
 LRC Date: December 11, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?			✓		ER1
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?			✓		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <RL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?			✓		
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?			✓		
Were MS/MSD analyzed at the appropriate frequency?			✓		
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?			✓		
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			✓		
Were analytical duplicates analyzed at the appropriate frequency?			✓		
Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
ICAL					
Were response factors and/or relative response factors for each analyte within QC limits?			✓		
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?	✓				
Was the absolute value of the analyte concentration in the inorganic CCB <RL?	✓				
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?			✓		
Were ion abundance data within the method-required QC limits?			✓		
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?			✓		
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?			✓		
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?	✓				
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	✓				
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NA(2)	NA(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name:	Microbac Laboratories Inc.
Laboratory Log Number:	L08120101
Project Name:	798-LONGHORN
Method:	6010
Prep Batch Number(s):	WG289708
Reviewer Name:	MAREN M. BEERY
LRC Date:	December 11, 2008

EXCEPTIONS REPORT

ER#1 -Dilution analysis was required for samples 08, 09, 10, 11, 13, 14 and 15 in order to obtain results for sodium within the linear range. Additionally, sample 09 required dilution analysis in order to obtain a result for calcium within the linear range.

Footnotes:

- (1) NA = Not applicable to method or project**
- (2) NR = Not reviewed**
- (3) ER# = Exception report number**

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) Cleanup methods, and
- e) If required for the project, tentatively identified compounds (TICs)

R4 Surrogate recovery data including:

- a) Calculated recovery (%R) for each analyte, and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms FOR laboratory control samples (LCSs) including:

- a) LCS spiking amount,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %R and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;

R10 Other problems or anomalies.

The exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

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MAREN M. BEERY



Metals Supervisor

December 10, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120101
 Project Name: 798-LONGHORN
 Method: 6020
 Prep Batch Number(s): WG289666
 Reviewer Name: MAREN M. BEERY
 LRC Date: December 10, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				ER1
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?			✓		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <RL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?			✓		
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?			✓		
Were MS/MSD analyzed at the appropriate frequency?			✓		
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?			✓		
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			✓		
Were analytical duplicates analyzed at the appropriate frequency?			✓		
Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
ICAL					
Were response factors and/or relative response factors for each analyte within QC limits?			✓		
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?	✓				
Was the absolute value of the analyte concentration in the inorganic CCB <RL?	✓				
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?			✓		
Were ion abundance data within the method-required QC limits?			✓		
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?			✓		
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?			✓		
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?	✓				
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	✓				
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NA(2)	OR(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name:	Microbac Laboratories Inc.
Laboratory Log Number:	L08120101
Project Name:	798-LONGHORN
Method:	6020
Prep Batch Number(s):	WG289666
Reviewer Name:	MAREN M. BEERY
LRC Date:	December 10, 2008

EXCEPTIONS REPORT

ER#1 -WG289904(6020) - Client sample 15 required dilution analysis in order to obtain a result for chromium within the linear range. Client samples 13, 14 and 15 required dilution analyses in order to obtain results for nickel within the linear range. Client samples 08 through 11 and 15 required dilution analyses in order to obtain results for manganese within the linear range.

Footnotes:

- (1) NA = Not applicable to method or project**
- (2) NR = Not reviewed**
- (3) ER# = Exception report number**

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- ✓R1 Field chain-of-custody documentation;
- ✓R2 sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - b) dilution factors,
 - c) preparation methods,
 - d) Cleanup methods, and
 - e) If required for the project, tentatively identified compounds (TICs)
- ✓R4 Surrogate recovery data including:
 - a) Calculated recovery (%R) for each analyte, and
 - b) The laboratory's surrogate QC limits.
- ✓R5 Test reports/summary forms for blank samples;
- ✓R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amount,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- ✓R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %R and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- ✓R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- ✓R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ✓R10 Other problems or anomalies.
- ✓The exception Report for every "No" or "Not Reviewed (NR)" item IN laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

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MIKE D. ALBERTSON



Volatiles Lab Supervisor

December 11, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120101
 Project Name: 798-LONGHORN
 Method: 8260B
 Prep Batch Number(s): WG289676, WG289819, WG289859, WG289946
 Reviewer Name: MIKE D. ALBERTSON
 LRC Date: December 11, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?	✓				
Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <MQL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		✓			2
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?		✓			1
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?	✓				
Were MS/MSD analyzed at the appropriate frequency?	✓				
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			4

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?	✓				
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			✓		
Were analytical duplicates analyzed at the appropriate frequency?			✓		
Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
ICAL					
Were response factors and/or relative response factors for each analyte within QC limits?	✓				
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?		✓			5
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?		✓			3
Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			✓		
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?	✓				
Were ion abundance data within the method-required QC limits?	✓				
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?	✓				
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?	✓				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NR(2)	ER(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

EXCEPTIONS REPORT

ER# - Description

- 1) 2,2-Dichloropropane exceeded the upper advisory limit in the LCS/LCSD analyzed 12/09/08 on HPMS-11.
- 2) Vinyl chloride exceeded the upper advisory limit in the LCS/LCSD analyzed 12/09/08 on HPMS-11 and LCS analyzed 12/08/08 on HPMS-8. Dichlorodifluoromethane exceeded the upper advisory limit in the LCS analyzed 12/05/08 on HPMS-11.
- 3) Acetone, bromomethane, and dichlorodifluoromethane exceeded the upper control limits in the ICV performed 11/25/08 on HPMS-11. Acetone exceeded the upper control limit in the ICV performed 11/14/08 on HPMS-8.
- 4) 2-Chloroethylvinyl ether was not detected.
- 5) Dichlorodifluoromethane was below the lower control limit in the CCV performed 12/08/08 on HPMS-8.

Footnotes:

- (1) NA = Not applicable to method or project
- (2) NR = Not reviewed
- (3) ER# = Exception report number

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) Cleanup methods, and
- e) If required for the project, tentatively identified compounds (TICs)

R4 Surrogate recovery data including:

- a) Calculated recovery (%R) for each analyte, and
- b) The laboratory's surrogate QC limits.

✓ R5 Test reports/summary forms for blank samples;

✓ R6 Test reports/summary forms for laboratory control samples (LCSs) including:

- a) LCS spiking amount,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %R and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;

R10 Other problems or anomalies.

The exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, If applicable: ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

DEANNA I. HESSON



Conventional Lab Supervisor

December 10, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120101
 Project Name: 798-LONGHORN
 Method: NITRATE-NITRITE
 Prep Batch Number(s): WG289920
 Reviewer Name: DEANNA I. HESSON
 LRC Date: December 10, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?			✓		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <MQL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?	✓				
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?	✓				
Were MS/MSD analyzed at the appropriate frequency?	✓				
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120101
 Project Name: 798-LONGHORN
 Method: NITRATE-NITRITE
 Prep Batch Number(s): WG289920
 Reviewer Name: DEANNA I. HESSON
 LRC Date: December 10, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?	✓				
Were analytical duplicates analyzed at the appropriate frequency?	✓				
Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
Were response factors and/or relative response factors for each analyte within QC limits?	✓				
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?	✓				
Was the absolute value of the analyte concentration in the inorganic CCB <MDL?	✓				
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?			✓		
Were ion abundance data within the method-required QC limits?			✓		
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?			✓		
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?			✓		

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120101
 Project Name: 798-LONGHORN
 Method: NITRATE-NITRITE
 Prep Batch Number(s): WG289920
 Reviewer Name: DEANNA I. HESSON
 LRC Date: December 10, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?			✓		
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name:	Microbac Laboratories Inc.
Laboratory Log Number:	L08120101
Project Name:	798-LONGHORN
Method:	NITRATE-NITRITE
Prep Batch Number(s):	WG289920
Reviewer Name:	DEANNA I. HESSON
LRC Date:	December 10, 2008

EXCEPTIONS REPORT

ER# - Description

Footnotes:

- (1) NA = Not applicable to method or project
- (2) NR = Not reviewed
- (3) ER# = Exception report number

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:

- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) Cleanup methods, and
- e) If required for the project, tentatively identified compounds (TICs)

R4 Surrogate recovery data including:

- a) Calculated recovery (%R) for each analyte, and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms FOR laboratory control samples (LCSs) including:

- a) LCS spiking amount,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %R and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

R8 Laboratory analytical duplicate (if applicable) recovery and precision:

- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;

R10 Other problems or anomalies.

The exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, If applicable: ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

MAREN M. BEERY



Metals Supervisor

December 8, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120101
 Project Name: 798-LONGHORN
 Method: 7471
 Prep Batch Number(s): WG289713
 Reviewer Name: MAREN M. BEERY
 LRC Date: December 08, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?			✓		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <RL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?			✓		
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?			✓		
Were MS/MSD analyzed at the appropriate frequency?			✓		
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		

Description	Yes	No	NA(1)	NA(2)	NA(3)
Were MS/MSD RPDs within laboratory QC limits?			✓		
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			✓		
Were analytical duplicates analyzed at the appropriate frequency?			✓		
Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
ICAL					
Were response factors and/or relative response factors for each analyte within QC limits?			✓		
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?	✓				
Was the absolute value of the analyte concentration in the inorganic CCB <RL?	✓				
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?			✓		
Were ion abundance data within the method-required QC limits?			✓		
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?			✓		
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?			✓		
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	✓				
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NA(2)	NA(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name:	Microbac Laboratories Inc.
Laboratory Log Number:	L08120101
Project Name:	798-LONGHORN
Method:	7471
Prep Batch Number(s):	WG289713
Reviewer Name:	MAREN M. BEERY
LRC Date:	December 08, 2008

EXCEPTIONS REPORT

ER# - Description

Footnotes:

- (1) NA = Not applicable to method or project
- (2) NR = Not reviewed
- (3) ER# = Exception report number

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

LABORATORY REPORT

00086759

L08120101

12/15/08 11:05

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: LONGHORN AAP KARNACK TX

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
16WW46-120108	L08120101-01	8260B	1	04-DEC-08
16WW42-120108	L08120101-02	8260B	25	04-DEC-08
16WW43-120108	L08120101-03	8260B	1	04-DEC-08
16WW45-120208	L08120101-04	8260B	1	04-DEC-08
16WW45-120208-FD	L08120101-05	8260B	1	04-DEC-08
16WW45-120208-MS	L08120101-06	8260B	1	04-DEC-08
16WW45-120208-MSD	L08120101-07	8260B	1	04-DEC-08
03WW01-112408	L08120101-08	8260B	20	04-DEC-08
35AWW06-120308	L08120101-09	8260B	1	04-DEC-08
35AWW08-112408	L08120101-11	8260B	100	04-DEC-08
35AWW07-112408	L08120101-12	8260B	1	04-DEC-08
35AWW02-112608	L08120101-13	8260B	1	04-DEC-08
35AWW02-112608-FD	L08120101-14	8260B	1	04-DEC-08
LHSMW04-112508	L08120101-15	8260B	1	04-DEC-08
16WW44-120108	L08120101-19	8260B	1	04-DEC-08
16WW41-120208	L08120101-20	8260B	10	04-DEC-08
TRIP BLANK	L08120101-22	8260B	1	04-DEC-08



Sample Number: **L08120101-01**
Client ID: **16WW46-120108**
Matrix: **Water**
Workgroup Number: **WG289859**
Collect Date: **12/01/2008 13:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/08/2008 15:16**
Cal Date: **11/25/2008 21:08**
Run Date: **12/08/2008 15:16**
File ID: **11M55862**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.317	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	3.50		1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	6.88		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120101-01**
 Client ID: **16WW46-120108**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/01/2008 13:40**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 15:16**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 15:16**
 File ID: **11M55862**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	95.9	86	118		
1,2-Dichloroethane-d4	93.2	80	120		
Toluene-d8	92.8	88	110		
4-Bromofluorobenzene	94.1	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-02**
 Client ID: **16WW42-120108**
 Matrix: **Water**
 Workgroup Number: **WG289946**
 Collect Date: **12/01/2008 11:45**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **25**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/09/2008 13:39**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/09/2008 13:39**
 File ID: **11M55892**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	250	62.5
Benzene	71-43-2		U	25.0	3.13
Bromobenzene	108-86-1		U	25.0	3.13
Bromochloromethane	74-97-5		U	25.0	5.00
Bromodichloromethane	75-27-4		U	25.0	6.25
Bromoform	75-25-2		U	25.0	12.5
Bromomethane	74-83-9	37.0		25.0	12.5
2-Butanone	78-93-3		U	250	62.5
n-Butylbenzene	104-51-8		U	25.0	6.25
sec-Butylbenzene	135-98-8		U	25.0	6.25
tert-Butylbenzene	98-06-6		U	25.0	6.25
Carbon disulfide	75-15-0		U	25.0	12.5
Carbon tetrachloride	56-23-5		U	25.0	6.25
Chlorobenzene	108-90-7		U	25.0	3.13
Chlorodibromomethane	124-48-1		U	25.0	6.25
Chloroethane	75-00-3		U	25.0	12.5
2-Chloroethyl vinyl ether	110-75-8		U	250	50.0
Chloroform	67-66-3		U	25.0	3.13
Chloromethane	74-87-3		U	25.0	6.25
2-Chlorotoluene	95-49-8		U	25.0	3.13
4-Chlorotoluene	106-43-4		U	25.0	6.25
1,2-Dibromo-3-chloropropane	96-12-8		U	125	25.0
1,2-Dibromoethane	106-93-4		U	25.0	6.25
Dibromomethane	74-95-3		U	25.0	6.25
1,2-Dichlorobenzene	95-50-1		U	25.0	3.13
1,3-Dichlorobenzene	541-73-1		U	25.0	6.25
1,4-Dichlorobenzene	106-46-7		U	25.0	3.13
Dichlorodifluoromethane	75-71-8		U	25.0	6.25
1,1-Dichloroethane	75-34-3		U	25.0	3.13
1,2-Dichloroethane	107-06-2		U	25.0	6.25
1,1-Dichloroethene	75-35-4		U	25.0	12.5
cis-1,2-Dichloroethene	156-59-2	1270		25.0	6.25
trans-1,2-Dichloroethene	156-60-5		U	25.0	6.25
1,2-Dichloropropane	78-87-5		U	25.0	5.00
1,3-Dichloropropane	142-28-9		U	25.0	5.00
2,2-Dichloropropane	594-20-7		U	25.0	6.25
cis-1,3-Dichloropropene	10061-01-5		U	25.0	6.25
trans-1,3-Dichloropropene	10061-02-6		U	25.0	12.5
1,1-Dichloropropene	563-58-6		U	25.0	6.25
Ethylbenzene	100-41-4		U	25.0	6.25
2-Hexanone	591-78-6		U	250	62.5
Hexachlorobutadiene	87-68-3		U	25.0	6.25
Isopropylbenzene	98-82-8		U	25.0	6.25
p-Isopropyltoluene	99-87-6		U	25.0	6.25
4-Methyl-2-pentanone	108-10-1		U	250	62.5
Methylene chloride	75-09-2	21.8	J	125	6.25
Naphthalene	91-20-3		U	25.0	5.00
n-Propylbenzene	103-65-1		U	25.0	3.13
Styrene	100-42-5		U	25.0	3.13
1,1,1,2-Tetrachloroethane	630-20-6		U	25.0	6.25
1,1,2,2-Tetrachloroethane	79-34-5		U	25.0	3.13
Tetrachloroethene	127-18-4		U	25.0	6.25
Toluene	108-88-3		U	25.0	6.25
1,2,3-Trichlorobenzene	87-61-6		U	25.0	3.75
1,2,4-Trichlorobenzene	120-82-1		U	25.0	5.00
1,1,1-Trichloroethane	71-55-6		U	25.0	6.25
1,1,2-Trichloroethane	79-00-5		U	25.0	6.25
Trichloroethene	79-01-6	3280		25.0	6.25
Trichlorofluoromethane	75-69-4		U	25.0	6.25

Sample Number: **L08120101-02**
 Client ID: **16WW42-120108**
 Matrix: **Water**
 Workgroup Number: **WG289946**
 Collect Date: **12/01/2008 11:45**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **25**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/09/2008 13:39**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/09/2008 13:39**
 File ID: **11M55892**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	25.0	12.5
1,2,4-Trimethylbenzene	95-63-6		U	25.0	6.25
1,3,5-Trimethylbenzene	108-67-8		U	25.0	6.25
Vinyl acetate	108-05-4		U	250	62.5
Vinyl chloride	75-01-4		U	25.0	6.25
o-Xylene	95-47-6		U	25.0	6.25
m-,p-Xylene	136777-61-2		U	25.0	12.5
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	94.5	86	118		
1,2-Dichloroethane-d4	99.2	80	120		
Toluene-d8	92.5	88	110		
4-Bromofluorobenzene	95.3	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-03**
Client ID: **16WW43-120108**
Matrix: **Water**
Workgroup Number: **WG289859**
Collect Date: **12/01/2008 10:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/08/2008 15:48**
Cal Date: **11/25/2008 21:08**
Run Date: **12/08/2008 15:48**
File ID: **11M55863**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.422	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120101-03**
 Client ID: **16WW43-120108**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/01/2008 10:40**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 15:48**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 15:48**
 File ID: **11M55863**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	97.2	86	118		
1,2-Dichloroethane-d4	94.6	80	120		
Toluene-d8	92.6	88	110		
4-Bromofluorobenzene	94.8	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-04**
 Client ID: **16WW45-120208**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **12/02/2008 10:15**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 12:54**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 12:54**
 File ID: **11M55832**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.600	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120101-04**
 Client ID: **16WW45-120208**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **12/02/2008 10:15**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 12:54**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 12:54**
 File ID: **11M55832**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	97.6	86	118		
1,2-Dichloroethane-d4	104	80	120		
Toluene-d8	92.7	88	110		
4-Bromofluorobenzene	95.1	86	115		

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-05**
 Client ID: **16WW45-120208-FD**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **12/02/2008 10:15**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 15:18**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 15:18**
 File ID: **11M55836**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.660	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Report Number: **L08120101**

00086769

Report Date : **December 15, 2008**

Sample Number: **L08120101-05**
 Client ID: **16WW45-120208-FD**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **12/02/2008 10:15**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 15:18**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 15:18**
 File ID: **11M55836**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	98.5	86	118		
1,2-Dichloroethane-d4	101	80	120		
Toluene-d8	92.9	88	110		
4-Bromofluorobenzene	96.2	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-06**
Client ID: **16WW45-120208-MS**
Matrix: **Water**
Workgroup Number: **WG289676**
Collect Date: **12/02/2008 10:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/05/2008 13:26**
Cal Date: **11/25/2008 21:08**
Run Date: **12/05/2008 13:26**
File ID: **11M55833**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	25.6		10.0	2.50
Benzene	71-43-2	19.8		1.00	0.125
Bromobenzene	108-86-1	19.7		1.00	0.125
Bromochloromethane	74-97-5	21.6		1.00	0.200
Bromodichloromethane	75-27-4	23.4		1.00	0.250
Bromoform	75-25-2	18.7		1.00	0.500
Bromomethane	74-83-9	19.9		1.00	0.500
2-Butanone	78-93-3	26.6		10.0	2.50
n-Butylbenzene	104-51-8	18.7		1.00	0.250
sec-Butylbenzene	135-98-8	18.7		1.00	0.250
tert-Butylbenzene	98-06-6	18.8		1.00	0.250
Carbon disulfide	75-15-0	19.4		1.00	0.500
Carbon tetrachloride	56-23-5	24.0		1.00	0.250
Chlorobenzene	108-90-7	19.5		1.00	0.125
Chlorodibromomethane	124-48-1	21.4		1.00	0.250
Chloroethane	75-00-3	20.1		1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	23.8		1.00	0.125
Chloromethane	74-87-3	16.5		1.00	0.250
2-Chlorotoluene	95-49-8	20.3		1.00	0.125
4-Chlorotoluene	106-43-4	19.4		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	18.8		5.00	1.00
1,2-Dibromoethane	106-93-4	19.4		1.00	0.250
Dibromomethane	74-95-3	21.7		1.00	0.250
1,2-Dichlorobenzene	95-50-1	19.1		1.00	0.125
1,3-Dichlorobenzene	541-73-1	19.0		1.00	0.250
1,4-Dichlorobenzene	106-46-7	18.5		1.00	0.125
Dichlorodifluoromethane	75-71-8	23.8		1.00	0.250
1,1-Dichloroethane	75-34-3	21.9		1.00	0.125
1,2-Dichloroethane	107-06-2	22.7		1.00	0.250
1,1-Dichloroethene	75-35-4	21.9		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	20.4		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	20.2		1.00	0.250
1,2-Dichloropropane	78-87-5	20.4		1.00	0.200
1,3-Dichloropropane	142-28-9	19.8		1.00	0.200
2,2-Dichloropropane	594-20-7	23.2		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	21.0		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.7		1.00	0.500
1,1-Dichloropropene	563-58-6	20.4		1.00	0.250
Ethylbenzene	100-41-4	19.4		1.00	0.250
2-Hexanone	591-78-6	23.1		10.0	2.50
Hexachlorobutadiene	87-68-3	17.7		1.00	0.250
Isopropylbenzene	98-82-8	17.1		1.00	0.250
p-Isopropyltoluene	99-87-6	18.2		1.00	0.250
4-Methyl-2-pentanone	108-10-1	20.1		10.0	2.50
Methylene chloride	75-09-2	19.2		5.00	0.250
Naphthalene	91-20-3	18.0		1.00	0.200
n-Propylbenzene	103-65-1	19.6		1.00	0.125
Styrene	100-42-5	19.7		1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	21.5		1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5	20.3		1.00	0.125
Tetrachloroethene	127-18-4	18.5		1.00	0.250
Toluene	108-88-3	19.0		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	18.0		1.00	0.150
1,2,4-Trichlorobenzene	120-82-1	18.1		1.00	0.200
1,1,1-Trichloroethane	71-55-6	21.4		1.00	0.250
1,1,2-Trichloroethane	79-00-5	19.9		1.00	0.250
Trichloroethene	79-01-6	18.6		1.00	0.250
Trichlorofluoromethane	75-69-4	21.9		1.00	0.250

Sample Number: **L08120101-06**
 Client ID: **16WW45-120208-MS**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **12/02/2008 10:15**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 13:26**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 13:26**
 File ID: **11M55833**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4	19.2		1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	19.7		1.00	0.250
1,3,5-Trimethylbenzene	108-67-8	19.3		1.00	0.250
Vinyl acetate	108-05-4	28.7		10.0	2.50
Vinyl chloride	75-01-4	27.8		1.00	0.250
o-Xylene	95-47-6	19.6		1.00	0.250
m-,p-Xylene	136777-61-2	39.9		1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	102	86	118		
1,2-Dichloroethane-d4	105	80	120		
Toluene-d8	91.8	88	110		
4-Bromofluorobenzene	94.9	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-07**
Client ID: **16WW45-120208-MSD**
Matrix: **Water**
Workgroup Number: **WG289676**
Collect Date: **12/02/2008 10:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/05/2008 14:15**
Cal Date: **11/25/2008 21:08**
Run Date: **12/05/2008 14:15**
File ID: **11M55834**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	24.1		10.0	2.50
Benzene	71-43-2	19.9		1.00	0.125
Bromobenzene	108-86-1	20.2		1.00	0.125
Bromochloromethane	74-97-5	21.0		1.00	0.200
Bromodichloromethane	75-27-4	22.4		1.00	0.250
Bromoform	75-25-2	18.1		1.00	0.500
Bromomethane	74-83-9	21.9		1.00	0.500
2-Butanone	78-93-3	24.5		10.0	2.50
n-Butylbenzene	104-51-8	18.9		1.00	0.250
sec-Butylbenzene	135-98-8	19.2		1.00	0.250
tert-Butylbenzene	98-06-6	19.3		1.00	0.250
Carbon disulfide	75-15-0	19.6		1.00	0.500
Carbon tetrachloride	56-23-5	23.3		1.00	0.250
Chlorobenzene	108-90-7	19.8		1.00	0.125
Chlorodibromomethane	124-48-1	21.0		1.00	0.250
Chloroethane	75-00-3	20.5		1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	23.4		1.00	0.125
Chloromethane	74-87-3	17.0		1.00	0.250
2-Chlorotoluene	95-49-8	21.0		1.00	0.125
4-Chlorotoluene	106-43-4	20.1		1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	17.8		5.00	1.00
1,2-Dibromoethane	106-93-4	18.8		1.00	0.250
Dibromomethane	74-95-3	20.3		1.00	0.250
1,2-Dichlorobenzene	95-50-1	19.1		1.00	0.125
1,3-Dichlorobenzene	541-73-1	19.5		1.00	0.250
1,4-Dichlorobenzene	106-46-7	18.7		1.00	0.125
Dichlorodifluoromethane	75-71-8	23.3		1.00	0.250
1,1-Dichloroethane	75-34-3	22.0		1.00	0.125
1,2-Dichloroethane	107-06-2	21.2		1.00	0.250
1,1-Dichloroethene	75-35-4	21.3		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	20.5		1.00	0.250
trans-1,2-Dichloroethene	156-60-5	20.2		1.00	0.250
1,2-Dichloropropane	78-87-5	20.4		1.00	0.200
1,3-Dichloropropane	142-28-9	19.1		1.00	0.200
2,2-Dichloropropane	594-20-7	25.5		1.00	0.250
cis-1,3-Dichloropropene	10061-01-5	20.4		1.00	0.250
trans-1,3-Dichloropropene	10061-02-6	18.5		1.00	0.500
1,1-Dichloropropene	563-58-6	20.3		1.00	0.250
Ethylbenzene	100-41-4	20.0		1.00	0.250
2-Hexanone	591-78-6	21.5		10.0	2.50
Hexachlorobutadiene	87-68-3	18.0		1.00	0.250
Isopropylbenzene	98-82-8	17.4		1.00	0.250
p-Isopropyltoluene	99-87-6	18.6		1.00	0.250
4-Methyl-2-pentanone	108-10-1	18.5		10.0	2.50
Methylene chloride	75-09-2	19.8		5.00	0.250
Naphthalene	91-20-3	17.0		1.00	0.200
n-Propylbenzene	103-65-1	20.2		1.00	0.125
Styrene	100-42-5	19.9		1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	21.3		1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5	19.7		1.00	0.125
Tetrachloroethene	127-18-4	18.2		1.00	0.250
Toluene	108-88-3	19.4		1.00	0.250
1,2,3-Trichlorobenzene	87-61-6	17.0		1.00	0.150
1,2,4-Trichlorobenzene	120-82-1	17.6		1.00	0.200
1,1,1-Trichloroethane	71-55-6	20.9		1.00	0.250
1,1,2-Trichloroethane	79-00-5	19.4		1.00	0.250
Trichloroethene	79-01-6	18.6		1.00	0.250
Trichlorofluoromethane	75-69-4	21.0		1.00	0.250

Sample Number: **L08120101-07**
 Client ID: **16WW45-120208-MSD**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **12/02/2008 10:15**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 14:15**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 14:15**
 File ID: **11M55834**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4	19.7		1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	20.1		1.00	0.250
1,3,5-Trimethylbenzene	108-67-8	19.9		1.00	0.250
Vinyl acetate	108-05-4	28.8		10.0	2.50
Vinyl chloride	75-01-4	27.1		1.00	0.250
o-Xylene	95-47-6	20.1		1.00	0.250
m-,p-Xylene	136777-61-2	40.4		1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	99.3	86	118		
1,2-Dichloroethane-d4	95.9	80	120		
Toluene-d8	91.2	88	110		
4-Bromofluorobenzene	96.0	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-08**
 Client ID: **03WW01-112408**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **11/24/2008 17:05**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **20**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 19:02**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 19:02**
 File ID: **11M55843**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	200	50.0
Benzene	71-43-2		U	20.0	2.50
Bromobenzene	108-86-1		U	20.0	2.50
Bromochloromethane	74-97-5		U	20.0	4.00
Bromodichloromethane	75-27-4		U	20.0	5.00
Bromoform	75-25-2		U	20.0	10.0
Bromomethane	74-83-9		U	20.0	10.0
2-Butanone	78-93-3		U	200	50.0
n-Butylbenzene	104-51-8		U	20.0	5.00
sec-Butylbenzene	135-98-8		U	20.0	5.00
tert-Butylbenzene	98-06-6		U	20.0	5.00
Carbon disulfide	75-15-0		U	20.0	10.0
Carbon tetrachloride	56-23-5		U	20.0	5.00
Chlorobenzene	108-90-7		U	20.0	2.50
Chlorodibromomethane	124-48-1		U	20.0	5.00
Chloroethane	75-00-3		U	20.0	10.0
2-Chloroethyl vinyl ether	110-75-8		U	200	40.0
Chloroform	67-66-3		U	20.0	2.50
Chloromethane	74-87-3	13.2	J	20.0	5.00
2-Chlorotoluene	95-49-8		U	20.0	2.50
4-Chlorotoluene	106-43-4		U	20.0	5.00
1,2-Dibromo-3-chloropropane	96-12-8		U	100	20.0
1,2-Dibromoethane	106-93-4		U	20.0	5.00
Dibromomethane	74-95-3		U	20.0	5.00
1,2-Dichlorobenzene	95-50-1		U	20.0	2.50
1,3-Dichlorobenzene	541-73-1		U	20.0	5.00
1,4-Dichlorobenzene	106-46-7		U	20.0	2.50
Dichlorodifluoromethane	75-71-8		U	20.0	5.00
1,1-Dichloroethane	75-34-3		U	20.0	2.50
1,2-Dichloroethane	107-06-2		U	20.0	5.00
1,1-Dichloroethene	75-35-4		U	20.0	10.0
cis-1,2-Dichloroethene	156-59-2		U	20.0	5.00
trans-1,2-Dichloroethene	156-60-5		U	20.0	5.00
1,2-Dichloropropane	78-87-5		U	20.0	4.00
1,3-Dichloropropane	142-28-9		U	20.0	4.00
2,2-Dichloropropane	594-20-7		U	20.0	5.00
cis-1,3-Dichloropropene	10061-01-5		U	20.0	5.00
trans-1,3-Dichloropropene	10061-02-6		U	20.0	10.0
1,1-Dichloropropene	563-58-6		U	20.0	5.00
Ethylbenzene	100-41-4		U	20.0	5.00
2-Hexanone	591-78-6		U	200	50.0
Hexachlorobutadiene	87-68-3		U	20.0	5.00
Isopropylbenzene	98-82-8		U	20.0	5.00
p-Isopropyltoluene	99-87-6		U	20.0	5.00
4-Methyl-2-pentanone	108-10-1		U	200	50.0
Methylene chloride	75-09-2		U	100	5.00
Naphthalene	91-20-3		U	20.0	4.00
n-Propylbenzene	103-65-1		U	20.0	2.50
Styrene	100-42-5		U	20.0	2.50
1,1,1,2-Tetrachloroethane	630-20-6		U	20.0	5.00
1,1,2,2-Tetrachloroethane	79-34-5		U	20.0	2.50
Tetrachloroethene	127-18-4	2570		20.0	5.00
Toluene	108-88-3		U	20.0	5.00
1,2,3-Trichlorobenzene	87-61-6		U	20.0	3.00
1,2,4-Trichlorobenzene	120-82-1		U	20.0	4.00
1,1,1-Trichloroethane	71-55-6		U	20.0	5.00
1,1,2-Trichloroethane	79-00-5		U	20.0	5.00
Trichloroethene	79-01-6	196		20.0	5.00
Trichlorofluoromethane	75-69-4		U	20.0	5.00

Report Number: **L08120101**Report Date : **December 15, 2008**

00086775

Sample Number: **L08120101-08**
 Client ID: **03WW01-112408**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **11/24/2008 17:05**
 Sample Tag: **DL02**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **20**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 19:02**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 19:02**
 File ID: **11M55843**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	20.0	10.0
1,2,4-Trimethylbenzene	95-63-6		U	20.0	5.00
1,3,5-Trimethylbenzene	108-67-8		U	20.0	5.00
Vinyl acetate	108-05-4		U	200	50.0
Vinyl chloride	75-01-4		U	20.0	5.00
o-Xylene	95-47-6		U	20.0	5.00
m-,p-Xylene	136777-61-2		U	20.0	10.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	104	86	118		
1,2-Dichloroethane-d4	113	80	120		
Toluene-d8	94.5	88	110		
4-Bromofluorobenzene	97.2	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-09**
 Client ID: **35AWW06-120308**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/03/2008 14:25**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 17:56**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 17:56**
 File ID: **11M55867**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.228	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	7.14		1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4	57.6		1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.370	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4	7.19		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.811	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120101-09**
 Client ID: **35AWW06-120308**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/03/2008 14:25**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 17:56**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 17:56**
 File ID: **11M55867**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	97.4	86	118		
1,2-Dichloroethane-d4	103	80	120		
Toluene-d8	90.5	88	110		
4-Bromofluorobenzene	93.8	86	115		

J The analyte was positively identified, but the quantitation was below the RL
 U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-11**
 Client ID: **35AWW08-112408**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **11/24/2008 12:25**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 16:23**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 16:23**
 File ID: **11M55838**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	1000	250
Benzene	71-43-2		U	100	12.5
Bromobenzene	108-86-1		U	100	12.5
Bromochloromethane	74-97-5		U	100	20.0
Bromodichloromethane	75-27-4		U	100	25.0
Bromoform	75-25-2		U	100	50.0
Bromomethane	74-83-9		U	100	50.0
2-Butanone	78-93-3		U	1000	250
n-Butylbenzene	104-51-8		U	100	25.0
sec-Butylbenzene	135-98-8		U	100	25.0
tert-Butylbenzene	98-06-6		U	100	25.0
Carbon disulfide	75-15-0		U	100	50.0
Carbon tetrachloride	56-23-5		U	100	25.0
Chlorobenzene	108-90-7		U	100	12.5
Chlorodibromomethane	124-48-1		U	100	25.0
Chloroethane	75-00-3		U	100	50.0
2-Chloroethyl vinyl ether	110-75-8		U	1000	200
Chloroform	67-66-3		U	100	12.5
Chloromethane	74-87-3		U	100	25.0
2-Chlorotoluene	95-49-8		U	100	12.5
4-Chlorotoluene	106-43-4		U	100	25.0
1,2-Dibromo-3-chloropropane	96-12-8		U	500	100
1,2-Dibromoethane	106-93-4		U	100	25.0
Dibromomethane	74-95-3		U	100	25.0
1,2-Dichlorobenzene	95-50-1		U	100	12.5
1,3-Dichlorobenzene	541-73-1		U	100	25.0
1,4-Dichlorobenzene	106-46-7		U	100	12.5
Dichlorodifluoromethane	75-71-8		U	100	25.0
1,1-Dichloroethane	75-34-3		U	100	12.5
1,2-Dichloroethane	107-06-2		U	100	25.0
1,1-Dichloroethene	75-35-4		U	100	50.0
cis-1,2-Dichloroethene	156-59-2		U	100	25.0
trans-1,2-Dichloroethene	156-60-5		U	100	25.0
1,2-Dichloropropane	78-87-5		U	100	20.0
1,3-Dichloropropane	142-28-9		U	100	20.0
2,2-Dichloropropane	594-20-7		U	100	25.0
cis-1,3-Dichloropropene	10061-01-5		U	100	25.0
trans-1,3-Dichloropropene	10061-02-6		U	100	50.0
1,1-Dichloropropene	563-58-6		U	100	25.0
Ethylbenzene	100-41-4		U	100	25.0
2-Hexanone	591-78-6		U	1000	250
Hexachlorobutadiene	87-68-3		U	100	25.0
Isopropylbenzene	98-82-8		U	100	25.0
p-Isopropyltoluene	99-87-6		U	100	25.0
4-Methyl-2-pentanone	108-10-1		U	1000	250
Methylene chloride	75-09-2		U	500	25.0
Naphthalene	91-20-3		U	100	20.0
n-Propylbenzene	103-65-1		U	100	12.5
Styrene	100-42-5		U	100	12.5
1,1,1,2-Tetrachloroethane	630-20-6		U	100	25.0
1,1,2,2-Tetrachloroethane	79-34-5		U	100	12.5
Tetrachloroethene	127-18-4	9590		100	25.0
Toluene	108-88-3		U	100	25.0
1,2,3-Trichlorobenzene	87-61-6		U	100	15.0
1,2,4-Trichlorobenzene	120-82-1		U	100	20.0
1,1,1-Trichloroethane	71-55-6		U	100	25.0
1,1,2-Trichloroethane	79-00-5		U	100	25.0
Trichloroethene	79-01-6	675		100	25.0
Trichlorofluoromethane	75-69-4		U	100	25.0

Sample Number: **L08120101-11**
 Client ID: **35AWW08-112408**
 Matrix: **Water**
 Workgroup Number: **WG289676**
 Collect Date: **11/24/2008 12:25**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **100**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/05/2008 16:23**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/05/2008 16:23**
 File ID: **11M55838**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	100	50.0
1,2,4-Trimethylbenzene	95-63-6		U	100	25.0
1,3,5-Trimethylbenzene	108-67-8		U	100	25.0
Vinyl acetate	108-05-4		U	1000	250
Vinyl chloride	75-01-4		U	100	25.0
o-Xylene	95-47-6		U	100	25.0
m-,p-Xylene	136777-61-2		U	100	50.0
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	109	80	120		
Toluene-d8	93.2	88	110		
4-Bromofluorobenzene	95.8	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-12**
Client ID: **35AWW07-112408**
Matrix: **Water**
Workgroup Number: **WG289859**
Collect Date: **11/24/2008 09:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/08/2008 18:28**
Cal Date: **11/25/2008 21:08**
Run Date: **12/08/2008 18:28**
File ID: **11M55868**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.395	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	0.562	J	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Report Number: **L08120101**Report Date : **December 15, 2008**

00086781

Sample Number: **L08120101-12**
 Client ID: **35AWW07-112408**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **11/24/2008 09:50**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 18:28**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 18:28**
 File ID: **11M55868**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	99.7	86	118		
1,2-Dichloroethane-d4	106	80	120		
Toluene-d8	93.1	88	110		
4-Bromofluorobenzene	96.0	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-13**
Client ID: **35AWW02-112608**
Matrix: **Water**
Workgroup Number: **WG289859**
Collect Date: **11/26/2008 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/08/2008 19:00**
Cal Date: **11/25/2008 21:08**
Run Date: **12/08/2008 19:00**
File ID: **11M55869**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120101-13**
 Client ID: **35AWW02-112608**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **11/26/2008 09:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 19:00**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 19:00**
 File ID: **11M55869**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	98.8	86	118		
1,2-Dichloroethane-d4	108	80	120		
Toluene-d8	91.8	88	110		
4-Bromofluorobenzene	94.1	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-14**
 Client ID: **35AWW02-112608-FD**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **11/26/2008 09:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 19:31**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 19:31**
 File ID: **11M55870**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120101-14**
 Client ID: **35AWW02-112608-FD**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **11/26/2008 09:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 19:31**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 19:31**
 File ID: **11M55870**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	99.1	86	118		
1,2-Dichloroethane-d4	110	80	120		
Toluene-d8	90.8	88	110		
4-Bromofluorobenzene	93.7	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-15**
 Client ID: **LHSMW04-112508**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **11/25/2008 11:45**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 20:03**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 20:03**
 File ID: **11M55871**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3	0.622	J	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.292	J	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4	25.7		1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6	11.3		1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Report Number: **L08120101**
 Report Date : **December 15, 2008**

00086787

Sample Number: **L08120101-15**
 Client ID: **LHSMW04-112508**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **11/25/2008 11:45**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 20:03**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 20:03**
 File ID: **11M55871**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	110	80	120		
Toluene-d8	93.0	88	110		
4-Bromofluorobenzene	96.4	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-19**
 Client ID: **16WW44-120108**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/01/2008 12:30**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 20:35**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 20:35**
 File ID: **11M55872**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	0.428	J	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Report Number: **L08120101**Report Date : **December 15, 2008**

00086789

Sample Number: **L08120101-19**
 Client ID: **16WW44-120108**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/01/2008 12:30**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 20:35**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 20:35**
 File ID: **11M55872**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	101	86	118		
1,2-Dichloroethane-d4	110	80	120		
Toluene-d8	92.6	88	110		
4-Bromofluorobenzene	96.4	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-20**
Client ID: **16WW41-120208**
Matrix: **Water**
Workgroup Number: **WG289946**
Collect Date: **12/02/2008 11:15**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **10**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/09/2008 14:11**
Cal Date: **11/25/2008 21:08**
Run Date: **12/09/2008 14:11**
File ID: **11M55893**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	100	25.0
Benzene	71-43-2		U	10.0	1.25
Bromobenzene	108-86-1		U	10.0	1.25
Bromochloromethane	74-97-5		U	10.0	2.00
Bromodichloromethane	75-27-4		U	10.0	2.50
Bromoform	75-25-2		U	10.0	5.00
Bromomethane	74-83-9		U	10.0	5.00
2-Butanone	78-93-3		U	100	25.0
n-Butylbenzene	104-51-8		U	10.0	2.50
sec-Butylbenzene	135-98-8		U	10.0	2.50
tert-Butylbenzene	98-06-6		U	10.0	2.50
Carbon disulfide	75-15-0		U	10.0	5.00
Carbon tetrachloride	56-23-5		U	10.0	2.50
Chlorobenzene	108-90-7		U	10.0	1.25
Chlorodibromomethane	124-48-1		U	10.0	2.50
Chloroethane	75-00-3		U	10.0	5.00
2-Chloroethyl vinyl ether	110-75-8		U	100	20.0
Chloroform	67-66-3		U	10.0	1.25
Chloromethane	74-87-3		U	10.0	2.50
2-Chlorotoluene	95-49-8		U	10.0	1.25
4-Chlorotoluene	106-43-4		U	10.0	2.50
1,2-Dibromo-3-chloropropane	96-12-8		U	50.0	10.0
1,2-Dibromoethane	106-93-4		U	10.0	2.50
Dibromomethane	74-95-3		U	10.0	2.50
1,2-Dichlorobenzene	95-50-1		U	10.0	1.25
1,3-Dichlorobenzene	541-73-1		U	10.0	2.50
1,4-Dichlorobenzene	106-46-7		U	10.0	1.25
Dichlorodifluoromethane	75-71-8		U	10.0	2.50
1,1-Dichloroethane	75-34-3		U	10.0	1.25
1,2-Dichloroethane	107-06-2		U	10.0	2.50
1,1-Dichloroethene	75-35-4		U	10.0	5.00
cis-1,2-Dichloroethene	156-59-2	58.9		10.0	2.50
trans-1,2-Dichloroethene	156-60-5		U	10.0	2.50
1,2-Dichloropropane	78-87-5		U	10.0	2.00
1,3-Dichloropropane	142-28-9		U	10.0	2.00
2,2-Dichloropropane	594-20-7		U	10.0	2.50
cis-1,3-Dichloropropene	10061-01-5		U	10.0	2.50
trans-1,3-Dichloropropene	10061-02-6		U	10.0	5.00
1,1-Dichloropropene	563-58-6		U	10.0	2.50
Ethylbenzene	100-41-4		U	10.0	2.50
2-Hexanone	591-78-6		U	100	25.0
Hexachlorobutadiene	87-68-3		U	10.0	2.50
Isopropylbenzene	98-82-8		U	10.0	2.50
p-Isopropyltoluene	99-87-6		U	10.0	2.50
4-Methyl-2-pentanone	108-10-1		U	100	25.0
Methylene chloride	75-09-2	8.16	J	50.0	2.50
Naphthalene	91-20-3		U	10.0	2.00
n-Propylbenzene	103-65-1		U	10.0	1.25
Styrene	100-42-5		U	10.0	1.25
1,1,1,2-Tetrachloroethane	630-20-6		U	10.0	2.50
1,1,2,2-Tetrachloroethane	79-34-5		U	10.0	1.25
Tetrachloroethene	127-18-4		U	10.0	2.50
Toluene	108-88-3		U	10.0	2.50
1,2,3-Trichlorobenzene	87-61-6		U	10.0	1.50
1,2,4-Trichlorobenzene	120-82-1		U	10.0	2.00
1,1,1-Trichloroethane	71-55-6		U	10.0	2.50
1,1,2-Trichloroethane	79-00-5		U	10.0	2.50
Trichloroethene	79-01-6	1080		10.0	2.50
Trichlorofluoromethane	75-69-4		U	10.0	2.50

Report Number: **L08120101**
 Report Date : **December 15, 2008**

00086791

Sample Number: **L08120101-20**
 Client ID: **16WW41-120208**
 Matrix: **Water**
 Workgroup Number: **WG289946**
 Collect Date: **12/02/2008 11:15**
 Sample Tag: **DL01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **10**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/09/2008 14:11**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/09/2008 14:11**
 File ID: **11M55893**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	10.0	5.00
1,2,4-Trimethylbenzene	95-63-6		U	10.0	2.50
1,3,5-Trimethylbenzene	108-67-8		U	10.0	2.50
Vinyl acetate	108-05-4		U	100	25.0
Vinyl chloride	75-01-4		U	10.0	2.50
o-Xylene	95-47-6		U	10.0	2.50
m-,p-Xylene	136777-61-2		U	10.0	5.00
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	101	86	118		
1,2-Dichloroethane-d4	103	80	120		
Toluene-d8	93.1	88	110		
4-Bromofluorobenzene	96.5	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-22**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG289819**
Collect Date: **12/01/2008 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **CAA**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **12/08/2008 14:17**
Cal Date: **11/14/2008 18:53**
Run Date: **12/08/2008 14:17**
File ID: **8M350340**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1	5.25	J	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3	4.18	J	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3	0.345	J	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Report Number: **L08120101**Report Date : **December 15, 2008**

00086793

Sample Number: **L08120101-22**
 Client ID: **TRIP BLANK**
 Matrix: **Water**
 Workgroup Number: **WG289819**
 Collect Date: **12/01/2008 00:01**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **CAA**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS8**
 Prep Date: **12/08/2008 14:17**
 Cal Date: **11/14/2008 18:53**
 Run Date: **12/08/2008 14:17**
 File ID: **8M350340**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	110	86	118		
1,2-Dichloroethane-d4	104	80	120		
Toluene-d8	99.8	88	110		
4-Bromofluorobenzene	93.7	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = [(Ax) (Cis)] / [(Ais) (Cx)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100

RF = Calculated Response Factor **1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

$$Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Vs = Purge volume of sample (mL)	10
Vn = Nominal purge volume of sample (mL) (10.0 mL)	10
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

$$Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Ws = Weight of sample purged (g)	5
Wn = Nominal purge weight (g) (5.0 g)	5
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	254.4856

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, $y = mx + b$

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

$$y = 86550/593147 = 0.1459$$

Step 3: Solve for x

$$x = (y - b)/m = [(0.1459 - (-0.00642))/0.213] = 0.7152$$

Step 4: Solve for analyte concentration Cx

$$Cx = Cis (x) = (25.0)(0.7152) = 17.88$$

Example Spreadsheet Calculation:

Slope from curve, m:	0.213
Intercept from curve, b:	-0.00642
Area of analyte, Ax:	86550
Area of Internal Standard, Ais:	593147
Concentration of IS, Cis	25.00
Response Ratio:	0.145917
Amount Ratio:	0.715195
Concentration:	17.87988
Units of Internal Standard:	ug/L

5.0 Concentration from Quadratic Regression**Step 1 - Retrieve Curve Data from Plot, $y = Ax^2 + Bx + C$**

Where:

$$Ax^2 + Bx + (C - y) = 0$$

A, B, C = constants from the ICAL quadratic regression

y = Response ratio = Area of analyte/Area of internal standard (IS)

x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

$$y = Ax/Ais$$

Step 3: Solve for x using the quadratic formula

$$Ax^2 + Bx + C - y = 0$$

$$x = \frac{b \pm \sqrt{(b^2 - 4a(c - y))}}{2a} \quad \text{(Two possible solutions)}$$

Step 4: Solve for analyte concentration Cx

$$Cx = (Cis)(\text{Amount ratio})$$

Example Spreadsheet Calculation:

Value of A from plot:	-0.00629
Value of B from plot:	0.511
Value of C from plot:	-0.0276
Area of unknown from quantitation report:	293821
Area of IS from quantitation report:	784848
Response ratio, y:	0.374367
C - y:	-0.40197
Root 1 - Computed amount ratio, X1:	80.44567
Root 2 - Computed amount ratio, X2:	0.794396 use this solution
Concentration of IS, Cis:	25.00
Concentration of analyte, Cx:	19.86 ug/L

Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS8 Dataset: 111408
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 12

Maintenance Log ID: 26635

Internal Standard: STD29337 Surrogate Standard: STD29539
 CCV: STD29834 LCS: STD29858 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG287926

Comments: Ical: C.Methane, Ethylbenzene, 2-C toluene only goes to 100; m/p xylene only goes to 200.
Alt Src: Freon 113, acetone, M.A., Acrolein high; VA, trans-14,DC-2b low.
Alt source gas were mixed up at 25 instead of 20.

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M349666	SYSTEM BLANK	NA	1	1		11/14/08 07:48
2	8M349667	SYSTEM BLANK	NA	1	1		11/14/08 08:19
3	8M349668	SYSTEM BLANK	NA	1	1		11/14/08 08:59
4	8M349669	WG287926-01 50ng BFB STD	NA	1	1	STD29746	11/14/08 09:26
5	8M349670	WG287926-01 50ng BFB STD	NA	1	1	STD29746	11/14/08 09:39
6	8M349671	WG287926-01 50ng BFB STD	NA	1	1	STD29746	11/14/08 10:23
7	8M349672	WG287926-01 50ng BFB STD	NA	1	1	STD29746	11/14/08 11:05
8	8M349673	WG287926-01 50ng BFB STD	NA	1	1	STD29746	11/14/08 11:33
9	8M349674	SYSTEM BLANK	NA	1	1		11/14/08 11:58
10	8M349675	WG287926-01 50ng BFB STD	NA	1	1	STD29746	11/14/08 12:28
11	8M349676	SYSTEM BLANK	NA	1	1		11/14/08 12:53
12	8M349677	WG287926-02 0.3ug/L STD 8260	NA	1	1	STD29834	11/14/08 13:35
13	8M349678	WG287926-03 0.4ug/L STD 8260	NA	1	1	STD29834	11/14/08 14:06
14	8M349679	WG287926-04 1ug/L STD 8260	NA	1	1	STD29834	11/14/08 14:39
15	8M349680	WG287926-05 2ug/L STD 8260	NA	1	1	STD29834	11/14/08 15:11
16	8M349681	WG287926-06 5ug/L STD 8260	NA	1	1	STD29834	11/14/08 15:43
17	8M349682	WG287926-03 0.4ug/L STD 8260	NA	1	1	STD29834	11/14/08 16:14
18	8M349683	WG287926-07 20ug/L STD 8260	NA	1	1	STD29834	11/14/08 16:46
19	8M349684	WG287926-08 50ug/L STD 8260	NA	1	1	STD29834	11/14/08 17:18
20	8M349685	WG287926-09 100ug/L STD 8260	NA	1	1	STD29834	11/14/08 17:49
21	8M349686	WG287926-10 200ug/L STD 8260	NA	1	1	STD29834	11/14/08 18:21
22	8M349687	WG287926-11 300ug/L STD 8260	NA	1	1	STD29834	11/14/08 18:53
23	8M349688	SYSTEM BLANK	NA	1	1		11/14/08 19:25
24	8M349689	SYSTEM BLANK	NA	1	1		11/14/08 19:57
25	8M349690	WG287926-12 20ug/L Alt Source STD 8260	NA	1	1	STD29858	11/14/08 20:28
26	8M349691	SYSTEM BLANK	NA	1	1		11/14/08 21:00

Approved: November 18, 2008

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Instrument Run Log

Instrument: HPMS11 Dataset: 112508
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26803

Internal Standard: STD29716 Surrogate Standard: STD29969
 CCV: STD30123 LCS: STD29858 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG289038

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M55528	50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 08:04
2	11M55529	50ug/L CCV 8260	NA	1	1	STD30008	11/25/08 08:38
27	11M55530	BLANK 8260	NA	1	1		11/25/08 09:30
28	11M55531	5ug/L Vinyl Acetate 8260	NA	1	1		11/25/08 10:17
3	11M55532	0.3ug/L 8260	NA	1	1		11/25/08 10:49
4	11M55533	WG 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 11:37
5	11M55534	WG 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 11:49
6	11M55535	WG 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 12:20
7	11M55536	WG289038-01 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 12:53
8	11M55537	WG289038-02 0.3ug/L 8260	NA	1	1	STD30042	11/25/08 13:20
9	11M55538	WG289038-03 0.4ug/L 8260	NA	1	1	STD30042	11/25/08 14:03
10	11M55539	WG289038-04 1.0ug/L 8260	NA	1	1	STD30042	11/25/08 14:38
11	11M55540	WG289038-05 2ug/L 8260	NA	1	1	STD30042	11/25/08 15:10
12	11M55541	SYSTEM BLANK	NA	1	1	STD30042	11/25/08 15:48
13	11M55542	WG289038-02 0.3ug/L 8260	NA	1	1	STD30042	11/25/08 16:23
14	11M55543	WG289038-03 0.4ug/L 8260	NA	1	1	STD30042	11/25/08 16:54
15	11M55544	WG289038-04 1ug/L 8260	NA	1	1	STD30042	11/25/08 17:26
16	11M55545	WG289038-05 2ug/L 8260	NA	1	1	STD30042	11/25/08 17:58
17	11M55546	WG289038-06 5ug/L 8260	NA	1	1	STD30042	11/25/08 18:30
18	11M55547	WG289038-07 20ug/L 8260	NA	1	1	STD30042	11/25/08 19:01
19	11M55548	WG289038-08 50ug/L 8260	NA	1	1	STD30042	11/25/08 19:33
20	11M55549	WG289038-09 100ug/L 8260	NA	1	1	STD30042	11/25/08 20:05
21	11M55550	WG289038-10 200ug/L 8260	NA	1	1	STD30042	11/25/08 20:37
22	11M55551	WG289038-11 300ug/L 8260	NA	1	1	STD30042	11/25/08 21:08
23	11M55552	SYSTEM BLANK	NA	1	1		11/25/08 21:40
24	11M55553	SYSTEM BLANK	NA	1	1		11/25/08 22:12
25	11M55554	WG289038-12 20ug/L ALT SOURCE	NA	1	1	STD30055	11/25/08 22:44
26	11M55555	SYSTEM BLANK	NA	1	1		11/25/08 23:16

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 11M55529				

Approved: December 02, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS11 Dataset: 112508
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26803

Internal Standard: STD29716 Surrogate Standard: STD29969
 CCV: STD30123 LCS: STD29858 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG289038

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
			running a curve.	
4				
File ID: 11M55533				
RR, BFB failed.				
5				
File ID: 11M55534				
RR, BFB failed. Replaced the septum.				
6				
File ID: 11M55535				
RR, BFB failed.				
8				
File ID: 11M55537				
DNR				
9				
File ID: 11M55538				
DNR				
10				
File ID: 11M55539				
DNR				
11				
File ID: 11M55540				
DNR				

Approved: December 02, 2008

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Instrument Run Log

Instrument: HPMS11 Dataset: 120508
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26878

Internal Standard: STD29337 Surrogate Standard: STD30117
 CCV: STD30123 LCS: STD300169 MS/MSD: STD300169
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG289676

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M55824	WG289675-01 50ng BFB STD 8260	NA	1	1	STD29746	12/05/08 08:29
2	11M55825	WG289675-02 50ug/L CCV STD 8260	NA	1	1	STD30123	12/05/08 08:56
3	11M55826	WG289676-01 BLANK 8260	NA	1	1		12/05/08 09:27
4	11M55827	WG289676-01 BLANK 8260	NA	1	1		12/05/08 09:59
5	11M55828	WG289676-02 LCS 20ug/L 8260	NA	1	1	STD300169	12/05/08 10:47
6	11M55829	SYSTEM BLANK	NA	1	1		12/05/08 11:18
7	11M55830	L08120101-04 A 100X 826-LOW	<2	1	100		12/05/08 11:50
8	11M55831	L08120101-08 A 100X 826-LOW	<2	1	100		12/05/08 12:22
9	11M55832	L08120101-04 A 826-LOW	<2	1	1		12/05/08 12:54
10	11M55833	L08120101-06 MS A 826-LOW	<2	1	1	STD30169	12/05/08 13:26
11	11M55834	L08120101-07 MSD A 826-LOW	<2	1	1	STD30169	12/05/08 14:15
12	11M55835	SYSTEM BLANK	NA	1	1		12/05/08 14:47
13	11M55836	L08120101-05 A 826-LOW	<2	1	1		12/05/08 15:18
14	11M55837	L08120101-09 A 100X 826-LOW	<2	1	100		12/05/08 15:50
15	11M55838	L08120101-11 A 100X 826-LOW	<2	1	100		12/05/08 16:23
16	11M55839	L08120101-12 A 100X 826-LOW	<2	1	100		12/05/08 16:55
17	11M55840	L08110687-01 B 50X 826-LOW	7	1	50		12/05/08 17:26
18	11M55841	L08110687-02 B 826-LOW	7	1	1		12/05/08 17:58
19	11M55842	L08110507-03 B 826-SPE	<2	1	1		12/05/08 18:30
20	11M55843	L08120101-08 A 20X 826-LOW	<2	1	20		12/05/08 19:02
21	11M55844	L08120101-13 A 100X 826-LOW	<2	1	100		12/05/08 19:34
22	11M55845	L08120101-14 A 100X 826-LOW	<2	1	100		12/05/08 20:06
23	11M55846	L08120101-15 A 100X 826-LOW	<2	1	100		12/05/08 20:38
24	11M55847	L08120101-19 A 100X 826-LOW	<2	1	100		12/05/08 21:09
25	11M55848	L08120101-01 A 100X 826-LOW	<2	1	100		12/05/08 21:41
26	11M55849	L08120101-02 A 100X 826-LOW	4	1	100		12/05/08 22:13
27	11M55850	L08120101-03 A 100X 826-LOW	<2	1	100		12/05/08 22:45
28	11M55851	L08120101-20 A 100X 826-LOW	<2	1	100		12/05/08 23:17
29	11M55852	SYSTEM CHECK	NA	1	1		12/05/08 23:48
30	11M55853	SYSTEM BLANK	NA	1	1		12/06/08 00:20

Approved: December 08, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS8 Dataset: 120808
 Analyst1: CAA Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26896

Internal Standard: STD29337 Surrogate Standard: STD29650
 CCV: STD30123 LCS: STD30169 MS/MSD: STD30200
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG289819

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M350330	SYSTEM BLANK	NA	1	1		12/08/08 08:17
2	8M350331	SYSTEM BLANK	NA	1	1		12/08/08 09:18
3	8M350332	WG289816-01 50ng BFB STD	NA	1	1	STD29746	12/08/08 09:56
4	8M350333	WG289816-02 50ug/L STD 8260	NA	1	1	STD30123	12/08/08 10:24
5	8M350334	WG289816-02 50ug/L STD 8260	NA	1	1	STD30123	12/08/08 11:05
6	8M350335	WG289819-01 VBLK1208 BLANK 8260	NA	1	1		12/08/08 11:37
7	8M350336	WG289819-01 VBLK1208 BLANK 8260	NA	1	1		12/08/08 12:09
8	8M350337	WG289819-02 20ug/L LCS STD 8260	NA	1	1	STD30169	12/08/08 12:41
9	8M350338	L08120077-03 B 5X 826-SPE	<2	1	5		12/08/08 13:13
10	8M350339	L08120118-07 A 826-SPE	<2	1	1		12/08/08 13:45
11	8M350340	L08120101-22 A 826-LOW	<2	1	1		12/08/08 14:17
12	8M350341	L08120040-05 B 826-SPE	<2	1	1		12/08/08 14:49
13	8M350342	L08120077-05 B 826-SPE	<2	1	1		12/08/08 15:22
14	8M350343	L08120077-08 B 826-SPE	<2	1	1		12/08/08 15:54
15	8M350344	L08120077-18 A 826-SPE	<2	1	1		12/08/08 16:26
16	8M350345	L08120077-19 A 826-SPE	<2	1	1		12/08/08 16:58
17	8M350346	L08120077-20 A 826-SPE	<2	1	1		12/08/08 17:30
18	8M350347	L08120077-17 A 2.5X 826-SPE	<2	1	2.5		12/08/08 18:02
19	8M350348	L08120077-12 A REF 826-SPE	<2	1	1		12/08/08 18:33
20	8M350349	L08120077-13 A MS 826-SPE	<2	1	1	STD30200	12/08/08 19:05
21	8M350350	L08120077-14 A MSD 826-SPE	<2	1	1	STD30200	12/08/08 19:37
22	8M350351	L08120077-04 B 10X 826-SPE	<2	1	10		12/08/08 20:09
23	8M350352	L08120077-07 B 10X 826-SPE	<2	1	10		12/08/08 20:41
24	8M350353	L08120077-15 A 826-SPE	<2	1	1		12/08/08 21:13
25	8M350354	L08120077-16 A 826-SPE	<2	1	1		12/08/08 21:45
26	8M350355	SYSTEM BLANK	NA	1	1		12/08/08 22:17
27	8M350356	SYSTEM CHECK	NA	1	1		12/08/08 22:49

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X			
File ID: 8M350333				
WG289816-02 50ug/L STD 8260 - VC fails high.				

Approved: December 11, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS8 Dataset: 120808
Analyst1: CAA Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 12
Method: 5030/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26896

Internal Standard: STD29337 Surrogate Standard: STD29650
CCV: STD30123 LCS: STD30169 MS/MSD: STD30200
Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG289819

Comments: Comments

Seq.	Rerun	Dil.	Reason	Analytes
6	X		Carry-over contamination	
File ID: 8M350335				
WG289819-01 VBLK1208 BLANK 8260				
25	X		Internal standard failure	Istd 1 low.
File ID: 8M350354				
L08120077-16 A 826-SPE - SS Tol low.				

Approved: December 11, 2008

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 120808
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 624 SOP: MSV10 Rev: 11
 Method: 5030/5035 SOP: PAT01 Rev: 12
 Maintenance Log ID: 26892

Internal Standard: STD30197 Surrogate Standard: STD29969
 CCV: STD30123 LCS: STD30200 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 289859

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M55855	WG289858-01 50ng BFB STD 8260	NA	1	1	STD29746	12/08/08 11:36
2	11M55856	WG289858-02 50ug/L CCV STD 8260	NA	1	1	STD30123	12/08/08 12:01
3	11M55857	WG289859-01 BLANK 8260	NA	1	1		12/08/08 12:33
4	11M55858	WG289859-01 BLANK 8260	NA	1	1		12/08/08 13:05
5	11M55859	WG289859-02 LCS 20ug/L 8260	NA	1	1	STD30169	12/08/08 13:37
6	11M55860	WG289859-03 LCSD 20ug/L 8260	NA	1	1	STD30169	12/08/08 14:13
7	11M55861	SYSTEM BLANK	NA	1	1		12/08/08 14:45
8	11M55862	L08120101-01 B 826-LOW	<2	1	1		12/08/08 15:16
9	11M55863	L08120101-03 B 826-LOW	<2	1	1		12/08/08 15:48
10	11M55864	L08120133-01 A 100X 826-LOW	<2	1	100		12/08/08 16:20
11	11M55865	L08120133-02 A 100X 826-LOW	<2	1	100		12/08/08 16:52
12	11M55866	L08120133-04 A 100X 826-LOW	<2	1	100		12/08/08 17:24
13	11M55867	L08120101-09 B 826-LOW	<2	1	1		12/08/08 17:56
14	11M55868	L08120101-12 B 826-LOW	<2	1	1		12/08/08 18:28
15	11M55869	L08120101-13 B 826-LOW	<2	1	1		12/08/08 19:00
16	11M55870	L08120101-14 B 826-LOW	<2	1	1		12/08/08 19:31
17	11M55871	L08120101-15 B 826-LOW	<2	1	1		12/08/08 20:03
18	11M55872	L08120101-19 B 826-LOW	<2	1	1		12/08/08 20:35
19	11M55873	L08120133-01 A 826-LOW	<2	1	1		12/08/08 21:07
20	11M55874	L08120133-02 A 826-LOW	<2	1	1		12/08/08 21:39
21	11M55875	L08120133-03 A 826-LOW	<2	1	1		12/08/08 22:11
22	11M55876	L08120133-04 A 826-LOW	<2	1	1		12/08/08 22:42
23	11M55877	L08120133-05 A 826-LOW	<2	1	1		12/08/08 23:15
24	11M55878	L08120101-02 B 25X 826-LOW	<2	1	25		12/08/08 23:47
25	11M55879	L08120101-20 B 10X 826-LOW	<2	1	10		12/09/08 00:20
26	11M55880	SYSTEM CHECK	NA	1	1		12/09/08 00:52
27	11M55881	SYSTEM BLANK	NA	1	1		12/09/08 01:24

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X	1	Carry-over contamination	
File ID: 11M55857				
dnr				

Approved: December 11, 2008

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Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS11 Dataset: 120808
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 624 SOP: MSV10 Rev: 11
 Method: 5030/5035 SOP: PAT01 Rev: 12
 Maintenance Log ID: 26892

Internal Standard: STD30197 Surrogate Standard: STD29969
 CCV: STD30123 LCS: STD30200 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 289859

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10	X		Analyzed too dilute	
File ID: 11M55864				
11	X	1	Analyzed too dilute	
File ID: 11M55865				
12	X	1	Analyzed too dilute	
File ID: 11M55866				
22	X	1	Internal standard failure	
File ID: 11M55876				
23	X	1	Internal standard failure	
File ID: 11M55877				
24	X	25	Missed Tune	
File ID: 11M55878				
dnr				
25	X	10	Missed Tune	
File ID: 11M55879				
dnr				

Approved: December 11, 2008

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WTD



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 120908
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26902

Internal Standard: STD30197 Surrogate Standard: STD30117
 CCV: STD30123 LCS: STD30200 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 289946

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M55882	WG289940-01 50ng BFB STD 8260	NA	1	1	STD29746	12/09/08 08:23
2	11M55883	WG289940-02 50ug/L CCV STD 8260	NA	1	1	STD30123	12/09/08 08:48
3	11M55884	WG289940-02 50ug/L CCV STD 8260	NA	1	1	STD30123	12/09/08 09:23
4	11M55885	WG289946-01 BLANK 8260	NA	1	1		12/09/08 09:56
5	11M55886	WG289946-01 BLANK 8260	NA	1	1		12/09/08 10:28
6	11M55887	WG289946-02 LCS 20ug/L 8260	NA	1	1		12/09/08 11:00
7	11M55888	WG289946-03 LCSD 20ug/L 8260	NA	1	1		12/09/08 11:31
8	11M55889	SYSTEM BLANK	NA	1	1		12/09/08 12:03
9	11M55890	L08120133-04 B 826-LOW	<2	1	1		12/09/08 12:35
10	11M55891	L08120133-05 B 826-LOW	<2	1	1		12/09/08 13:07
11	11M55892	L08120101-02 C 25X 826-LOW	<2	1	25		12/09/08 13:39
12	11M55893	L08120101-20 C 10X 826-LOW	<2	1	10		12/09/08 14:11
13	11M55894	L08120181-13 A 826-SPE	<2	1	1		12/09/08 14:43
14	11M55895	L08120181-14 A 826-SPE	<2	1	1		12/09/08 15:14
15	11M55896	L08120181-04 A 826-SPE	<2	1	1		12/09/08 15:46
16	11M55897	L08120181-05 A 826-SPE	<2	1	1		12/09/08 16:18
17	11M55898	L08120181-06 A 826-SPE	<2	1	1		12/09/08 16:50
18	11M55899	L08120181-07 A 826-SPE	<2	1	1		12/09/08 17:21
19	11M55900	L08120181-08 A 826-SPE	<2	1	1		12/09/08 17:53
20	11M55901	L08120181-09 A 826-SPE	<2	1	1		12/09/08 18:26
21	11M55902	L08120181-10 A 826-SPE	<2	1	1		12/09/08 18:58
22	11M55903	L08120181-11 A 826-SPE	<2	1	1		12/09/08 19:29
23	11M55904	L08120181-12 A 826-SPE	<2	1	1		12/09/08 20:01
24	11M55905	SYSTEM BLANK	NA	1	1		12/09/08 20:33
25	11M55906	SYSTEM BLANK	NA	1	1		12/09/08 21:05
26	11M55907	SYSTEM BLANK	NA	1	1		12/09/08 21:36

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X		Carry-over contamination	
File ID: 11M55885				
DNR				

Approved: December 11, 2008

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Microbac Laboratories Inc.

Data Checklist

Date: 14-NOV-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 25278

Analytical Workgroups: WG287926

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
17-NOV-2008

Cassio D. Augenstein

Secondary Reviewer:
18-NOV-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 25-NOV-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 25509

Analytical Workgroups: WG289038

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	NA
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDC
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
02-DEC-2008



Secondary Reviewer:
02-DEC-2008



Microbac Laboratories Inc.

Data Checklist

Date: 05-DEC-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 25606

Analytical Workgroups: WG289676

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	
Reruns	
Manual Integrations	
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	WTD
Secondary Reviewer	LSB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
08-DEC-2008

Secondary Reviewer:
08-DEC-2008

Microbac Laboratories Inc.

Data Checklist

Date: 08-DEC-2008

Analyst: CAA

Analyst: NA

Method: 8260

Instrument: HPMS8

Curve Workgroup: NA

Runlog ID: 25627

Analytical Workgroups: WG289819

System Performance Check	X
BFB	X
Initial Calibration	NA
Average RF	NA
Linear Reg or Higher Order Curve	NA
Second Source standard % Difference	NA
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	CAA
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
09-DEC-2008

Cassio D. Augenstein

Secondary Reviewer:
11-DEC-2008

MDA

Microbac Laboratories Inc.

Data Checklist

Date: 08-DEC-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 25616

Analytical Workgroups: 289859

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	WTD
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
09-DEC-2008

Secondary Reviewer:
11-DEC-2008

Microbac Laboratories Inc.

Data Checklist

Date: 09-DEC-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 25639

Analytical Workgroups: 289946

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	WTD
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
10-DEC-2008

Secondary Reviewer:
11-DEC-2008

Analytical Method: 8260B

AAB#: WG289676

Login Number: L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
03WW01-112408	11/24/08	12/04/08	12/05/08	14	11.1	12/05/08	14	11.1	
16WW45-120208-MSD	12/02/08	12/04/08	12/05/08	14	3.17	12/05/08	14	3.17	
35Aww08-112408	11/24/08	12/04/08	12/05/08	14	11.2	12/05/08	14	11.2	
16WW45-120208-MS	12/02/08	12/04/08	12/05/08	14	3.13	12/05/08	14	3.13	
16WW45-120208-FD	12/02/08	12/04/08	12/05/08	14	3.21	12/05/08	14	3.21	
16WW45-120208	12/02/08	12/04/08	12/05/08	14	3.11	12/05/08	14	3.11	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG289819

Login Number: L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TRIP BLANK	12/01/08	12/04/08	12/08/08	14	7.59	12/08/08	14	7.59	

* EXT = SEE PROJECT QAPP REQUIREMENTS

* ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG289859

Login Number: L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
35AWW02-112608-FD	11/26/08	12/04/08	12/08/08	14	12.4	12/08/08	14	12.4	
16WW44-120108	12/01/08	12/04/08	12/08/08	14	7.34	12/08/08	14	7.34	
16WW43-120108	12/01/08	12/04/08	12/08/08	14	7.21	12/08/08	14	7.21	
LHSMW04-112508	11/25/08	12/04/08	12/08/08	14	13.3	12/08/08	14	13.3	
35AWW02-112608	11/26/08	12/04/08	12/08/08	14	12.4	12/08/08	14	12.4	
35AWW06-120308	12/03/08	12/04/08	12/08/08	14	5.15	12/08/08	14	5.15	
16WW46-120108	12/01/08	12/04/08	12/08/08	14	7.07	12/08/08	14	7.07	
35AWW07-112408	11/24/08	12/04/08	12/08/08	14	14.4	12/08/08	14	14.4	*ANAL

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG289946

Login Number: L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
16WW41-120208	12/02/08	12/04/08	12/09/08	14	7.12	12/09/08	14	7.12	
16WW42-120108	12/01/08	12/04/08	12/09/08	14	8.08	12/09/08	14	8.08	

* EXT = SEE PROJECT QAPP REQUIREMENTS

* ANAL = SEE PROJECT QAPP REQUIREMENTS

Login Number: L08120101
Instrument Id: HPMS11
Workgroup (AAB#): WG289946

Method: 8260
CAL ID: HPMS11 - 25-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08120101-02	25.0	DL01	99.2	94.5	95.3	92.5
L08120101-20	10.0	DL01	103	101	96.5	93.1
WG289946-01	1.00	01	95.0	97.2	94.0	92.1
WG289946-02	1.00	01	98.7	102	92.0	90.8
WG289946-03	1.00	01	98.9	102	91.9	90.1

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08120101
Instrument Id: HPMS11
Workgroup (AAB#): WG289676

Method: 8260
CAL ID: HPMS11 - 25-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08120101-04	1.00	01	104	97.6	95.1	92.7
L08120101-05	1.00	01	101	98.5	96.2	92.9
L08120101-06	1.00	01	105	102	94.9	91.8
L08120101-07	1.00	01	95.9	99.3	96.0	91.2
L08120101-08	20.0	DL02	113	104	97.2	94.5
L08120101-11	100	DL01	109	100	95.8	93.2
WG289676-01	1.00	01	95.4	97.1	95.8	93.2
WG289676-02	1.00	01	93.8	98.4	95.2	93.3

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08120101
Instrument Id: HPMS8
Workgroup (AAB#): WG289819

Method: 8260
CAL ID: HPMS8 - 14-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08120101-22	1.00	01	104	110	93.7	99.8
WG289819-01	1.00	01	109	108	92.7	100
WG289819-02	1.00	01	105	106	91.7	101

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08120101
Instrument Id: HPMS11
Workgroup (AAB#): WG289859

Method: 8260
CAL ID: HPMS11 - 25-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08120101-01	1.00	01	93.2	95.9	94.1	92.8
L08120101-03	1.00	01	94.6	97.2	94.8	92.6
L08120101-09	1.00	01	103	97.4	93.8	90.5
L08120101-12	1.00	01	106	99.7	96.0	93.1
L08120101-13	1.00	01	108	98.8	94.1	91.8
L08120101-14	1.00	01	110	99.1	93.7	90.8
L08120101-15	1.00	01	110	100	96.4	93.0
L08120101-19	1.00	01	110	101	96.4	92.6
WG289859-01	1.00	01	89.9	92.7	93.3	92.6
WG289859-02	1.00	01	96.8	97.5	94.6	90.5
WG289859-03	1.00	01	93.1	96.9	94.9	92.1

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

METHOD BLANK SUMMARY

Login Number: <u>L08120101</u>	Work Group: <u>WG289676</u>
Blank File ID: <u>11M55827</u>	Blank Sample ID: <u>WG289676-01</u>
Prep Date: <u>12/05/08 09:59</u>	Instrument ID: <u>HPMS11</u>
Analyzed Date: <u>12/05/08 09:59</u>	Method: <u>8260B</u>
Analyst: <u>WTD</u>	

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289676-02	11M55828	12/05/08 10:47	01
16WW45-120208	L08120101-04	11M55832	12/05/08 12:54	01
16WW45-120208-MS	L08120101-06	11M55833	12/05/08 13:26	01
16WW45-120208-MSD	L08120101-07	11M55834	12/05/08 14:15	01
16WW45-120208-FD	L08120101-05	11M55836	12/05/08 15:18	01
35AWW08-112408	L08120101-11	11M55838	12/05/08 16:23	DL01
03WW01-112408	L08120101-08	11M55843	12/05/08 19:02	DL02

Report Name: BLANK_SUMMARY
 PDF File ID: 1273807
 Report generated 12/11/2008 15:21



METHOD BLANK SUMMARY

Login Number: L08120101
 Blank File ID: 11M55858
 Prep Date: 12/08/08 13:05
 Analyzed Date: 12/08/08 13:05
 Analyst: WTD

Work Group: WG289859
 Blank Sample ID: WG289859-01
 Instrument ID: HPMS11
 Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289859-02	11M55859	12/08/08 13:37	01
LCS2	WG289859-03	11M55860	12/08/08 14:13	01
16WW46-120108	L08120101-01	11M55862	12/08/08 15:16	01
16WW43-120108	L08120101-03	11M55863	12/08/08 15:48	01
35AWW06-120308	L08120101-09	11M55867	12/08/08 17:56	01
35AWW07-112408	L08120101-12	11M55868	12/08/08 18:28	01
35AWW02-112608	L08120101-13	11M55869	12/08/08 19:00	01
35AWW02-112608-FD	L08120101-14	11M55870	12/08/08 19:31	01
LHSMW04-112508	L08120101-15	11M55871	12/08/08 20:03	01
16WW44-120108	L08120101-19	11M55872	12/08/08 20:35	01

Report Name: BLANK_SUMMARY
 PDF File ID: 1273807
 Report generated 12/11/2008 15:21



METHOD BLANK SUMMARY

Login Number: L08120101
Blank File ID: 11M55886
Prep Date: 12/09/08 10:28
Analyzed Date: 12/09/08 10:28
Analyst: WTD

Work Group: WG289946
Blank Sample ID: WG289946-01
Instrument ID: HPMS11
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289946-02	11M55887	12/09/08 11:00	01
LCS2	WG289946-03	11M55888	12/09/08 11:31	01
16WW42-120108	L08120101-02	11M55892	12/09/08 13:39	DL01
16WW41-120208	L08120101-20	11M55893	12/09/08 14:11	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 1273807
Report generated 12/11/2008 15:21



METHOD BLANK SUMMARY

Login Number:	<u>L08120101</u>	Work Group:	<u>WG289819</u>
Blank File ID:	<u>8M350336</u>	Blank Sample ID:	<u>WG289819-01</u>
Prep Date:	<u>12/08/08 12:09</u>	Instrument ID:	<u>HPMS8</u>
Analyzed Date:	<u>12/08/08 12:09</u>	Method:	<u>8260B</u>
Analyst:	<u>CAA</u>		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289819-02	8M350337	12/08/08 12:41	01
TRIP BLANK	L08120101-22	8M350340	12/08/08 14:17	01

Report Name: BLANK_SUMMARY
PDF File ID: 1273807
Report generated 12/11/2008 15:21



Login Number: L08120101 Prep Date: 12/05/08 09:59 Sample ID: WG289676-01
Instrument ID: HPMS11 Run Date: 12/05/08 09:59 Prep Method: 5030B
File ID: 11M55827 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289676 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.405	1	J
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1271561

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Login Number: L08120101 Prep Date: 12/05/08 09:59 Sample ID: WG289676-01
Instrument ID: HPMS11 Run Date: 12/05/08 09:59 Prep Method: 5030B
File ID: 11M55827 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289676 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	97.1	86 - 118	PASS
1,2-Dichloroethane-d4	95.4	80 - 120	PASS
Toluene-d8	93.2	88 - 110	PASS
4-Bromofluorobenzene	95.8	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
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Login Number: L08120101 Prep Date: 12/08/08 13:05 Sample ID: WG289859-01
Instrument ID: HPMS11 Run Date: 12/08/08 13:05 Prep Method: 5030B
File ID: 11M55858 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289859 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1271561

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Login Number: L08120101 Prep Date: 12/08/08 13:05 Sample ID: WG289859-01
Instrument ID: HPMS11 Run Date: 12/08/08 13:05 Prep Method: 5030B
File ID: 11M55858 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289859 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.318	1	J
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	92.7	86 - 118	PASS
1,2-Dichloroethane-d4	89.9	80 - 120	PASS
Toluene-d8	92.6	88 - 110	PASS
4-Bromofluorobenzene	93.3	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1271561
11-DEC-2008 15:21



Login Number: L08120101 Prep Date: 12/09/08 10:28 Sample ID: WG289946-01
Instrument ID: HPMS11 Run Date: 12/09/08 10:28 Prep Method: 5030B
File ID: 11M55886 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289946 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1271561

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Login Number: L08120101 Prep Date: 12/09/08 10:28 Sample ID: WG289946-01
Instrument ID: HPMS11 Run Date: 12/09/08 10:28 Prep Method: 5030B
File ID: 11M55886 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289946 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.382	1	J
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	97.2	86 - 118	PASS
1,2-Dichloroethane-d4	95.0	80 - 120	PASS
Toluene-d8	92.1	88 - 110	PASS
4-Bromofluorobenzene	94.0	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 1271561

11-DEC-2008 15:21



Login Number: L08120101 Prep Date: 12/08/08 12:09 Sample ID: WG289819-01
Instrument ID: HPMS8 Run Date: 12/08/08 12:09 Prep Method: 5030B
File ID: 8M350336 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG289819 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 14-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK
PDF ID: 1271561
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Login Number: L08120101 Prep Date: 12/08/08 12:09 Sample ID: WG289819-01
Instrument ID: HPMS8 Run Date: 12/08/08 12:09 Prep Method: 5030B
File ID: 8M350336 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG289819 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS8 - 14-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
Naphthalene	0.200	1.00	0.329	1	J
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.398	1	J
1,2,4-Trichlorobenzene	0.200	1.00	0.343	1	J
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	108	86 - 118	PASS
1,2-Dichloroethane-d4	109	80 - 120	PASS
Toluene-d8	100	88 - 110	PASS
4-Bromofluorobenzene	92.7	86 - 115	PASS

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1271561
11-DEC-2008 15:21



Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289676-02
Instrument ID: HPMS11 Run Time: 10:47 Prep Method: 5030B
File ID: 11M55828 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289676 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD30169 Cal ID: HPMS11 - 25-NOV-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Acetone	20.0	21.0	105	40	-	142	
Benzene	20.0	20.7	103	80	-	121	
Bromobenzene	20.0	19.9	99.7	80	-	120	
Bromochloromethane	20.0	21.0	105	65	-	130	
Bromodichloromethane	20.0	22.3	111	80	-	131	
Bromoform	20.0	17.4	86.8	70	-	130	
Bromomethane	20.0	18.5	92.6	30	-	145	
2-Butanone	20.0	22.3	111	30	-	150	
n-Butylbenzene	20.0	20.4	102	80	-	131	
sec-Butylbenzene	20.0	20.4	102	80	-	127	
tert-Butylbenzene	20.0	20.3	101	80	-	126	
Carbon disulfide	20.0	21.0	105	58	-	138	
Carbon tetrachloride	20.0	24.6	123	65	-	140	
Chlorobenzene	20.0	20.3	102	80	-	120	
Chlorodibromomethane	20.0	20.7	103	60	-	135	
Chloroethane	20.0	21.8	109	60	-	135	
2-Chloroethyl vinyl ether	20.0	18.0	90.2	58	-	151	
Chloroform	20.0	23.1	116	80	-	125	
Chloromethane	20.0	16.4	82.0	40	-	125	
2-Chlorotoluene	20.0	21.6	108	80	-	127	
4-Chlorotoluene	20.0	20.5	102	80	-	126	
1,2-Dibromo-3-chloropropane	20.0	16.3	81.3	50	-	130	
1,2-Dibromoethane	20.0	18.6	93.2	80	-	125	
Dibromomethane	20.0	20.1	101	75	-	125	
1,2-Dichlorobenzene	20.0	19.5	97.3	80	-	125	
1,3-Dichlorobenzene	20.0	19.7	98.6	80	-	120	
1,4-Dichlorobenzene	20.0	19.0	94.9	80	-	120	
Dichlorodifluoromethane	20.0	27.2	136	50	-	133	*
1,1-Dichloroethane	20.0	22.3	112	80	-	125	
1,2-Dichloroethane	20.0	20.7	103	80	-	129	
1,1-Dichloroethene	20.0	23.3	116	80	-	132	
cis-1,2-Dichloroethene	20.0	21.4	107	70	-	125	
trans-1,2-Dichloroethene	20.0	21.2	106	80	-	127	
1,2-Dichloropropane	20.0	20.6	103	80	-	120	
1,3-Dichloropropane	20.0	19.2	96.0	80	-	120	
2,2-Dichloropropane	20.0	25.7	128	80	-	133	
cis-1,3-Dichloropropene	20.0	20.7	104	70	-	130	
trans-1,3-Dichloropropene	20.0	18.2	91.2	80	-	130	
1,1-Dichloropropene	20.0	21.6	108	75	-	130	
Ethylbenzene	20.0	21.0	105	80	-	122	
2-Hexanone	20.0	18.9	94.6	55	-	130	

LCS - Modified 03/06/2008
PDF File ID: 1270244
Report generated: 12/11/2008 13:13



Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289676-02
Instrument ID: HPMS11 Run Time: 10:47 Prep Method: 5030B
File ID: 11M55828 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289676 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD30169 Cal ID: HPMS11 - 25-NOV-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Hexachlorobutadiene	20.0	19.4	96.9	72 - 132	
Isopropylbenzene	20.0	18.3	91.6	80 - 122	
p-Isopropyltoluene	20.0	19.7	98.7	80 - 122	
4-Methyl-2-pentanone	20.0	17.4	87.1	64 - 140	
Methylene chloride	20.0	20.4	102	80 - 123	
Naphthalene	20.0	16.5	82.5	59 - 149	
n-Propylbenzene	20.0	21.3	107	80 - 129	
Styrene	20.0	20.4	102	80 - 123	
1,1,1,2-Tetrachloroethane	20.0	21.6	108	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	19.0	94.9	79 - 125	
Tetrachloroethene	20.0	19.8	98.8	80 - 124	
Toluene	20.0	20.2	101	80 - 124	
1,2,3-Trichlorobenzene	20.0	17.5	87.4	55 - 140	
1,2,4-Trichlorobenzene	20.0	17.9	89.7	65 - 135	
1,1,1-Trichloroethane	20.0	22.2	111	80 - 134	
1,1,2-Trichloroethane	20.0	19.2	96.0	80 - 125	
Trichloroethene	20.0	19.2	96.2	80 - 122	
Trichlorofluoromethane	20.0	23.2	116	62 - 151	
1,2,3-Trichloropropane	20.0	18.6	93.2	75 - 125	
1,2,4-Trimethylbenzene	20.0	21.0	105	80 - 125	
1,3,5-Trimethylbenzene	20.0	20.7	104	80 - 127	
Vinyl acetate	20.0	27.5	137	10 - 150	
Vinyl chloride	20.0	27.7	139	65 - 140	
o-Xylene	20.0	20.4	102	80 - 122	
m-,p-Xylene	40.0	42.4	106	80 - 122	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	98.4	86 - 118	PASS
1,2-Dichloroethane-d4	93.8	80 - 120	PASS
Toluene-d8	93.3	88 - 110	PASS
4-Bromofluorobenzene	95.2	86 - 115	PASS

* FAILS %REC LIMIT

Login Number: L08120101 Run Date: 12/08/2008 Sample ID: WG289819-02
 Instrument ID: HPMS8 Run Time: 12:41 Prep Method: 5030B
 File ID: 8M350337 Analyst: CAA Method: 8260B
 Workgroup (AAB#): WG289819 Matrix: Water Units: ug/L
 QC Key: STD Lot#: STD30169 Cal ID: HPMS8 - 14-NOV-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Acetone	20.0	26.4	132	40	-	142	
Benzene	20.0	20.5	102	80	-	121	
Bromobenzene	20.0	19.1	95.6	80	-	120	
Bromochloromethane	20.0	24.1	120	65	-	130	
Bromodichloromethane	20.0	24.9	125	80	-	131	
Bromoform	20.0	23.7	119	70	-	130	
Bromomethane	20.0	24.2	121	30	-	145	
2-Butanone	20.0	26.9	134	30	-	150	
n-Butylbenzene	20.0	19.4	97.2	80	-	131	
sec-Butylbenzene	20.0	19.3	96.6	80	-	127	
tert-Butylbenzene	20.0	19.5	97.4	80	-	126	
Carbon disulfide	20.0	21.4	107	58	-	138	
Carbon tetrachloride	20.0	26.2	131	65	-	140	
Chlorobenzene	20.0	19.5	97.7	80	-	120	
Chlorodibromomethane	20.0	25.5	127	60	-	135	
Chloroethane	20.0	21.8	109	60	-	135	
2-Chloroethyl vinyl ether	20.0	22.6	113	58	-	151	
Chloroform	20.0	22.8	114	80	-	125	
Chloromethane	20.0	24.0	120	40	-	125	
2-Chlorotoluene	20.0	17.5	87.7	80	-	127	
4-Chlorotoluene	20.0	19.8	99.1	80	-	126	
1,2-Dibromo-3-chloropropane	20.0	22.2	111	50	-	130	
1,2-Dibromoethane	20.0	21.1	105	80	-	125	
Dibromomethane	20.0	23.0	115	75	-	125	
1,2-Dichlorobenzene	20.0	19.5	97.3	80	-	125	
1,3-Dichlorobenzene	20.0	19.1	95.3	80	-	120	
1,4-Dichlorobenzene	20.0	19.1	95.7	80	-	120	
Dichlorodifluoromethane	20.0	21.6	108	50	-	133	
1,1-Dichloroethane	20.0	21.2	106	80	-	125	
1,2-Dichloroethane	20.0	23.2	116	80	-	129	
1,1-Dichloroethene	20.0	22.1	111	80	-	132	
cis-1,2-Dichloroethene	20.0	22.1	111	70	-	125	
trans-1,2-Dichloroethene	20.0	21.0	105	80	-	127	
1,2-Dichloropropane	20.0	20.8	104	80	-	120	
1,3-Dichloropropane	20.0	20.6	103	80	-	120	
2,2-Dichloropropane	20.0	23.2	116	80	-	133	
cis-1,3-Dichloropropene	20.0	21.6	108	70	-	130	
trans-1,3-Dichloropropene	20.0	19.6	98.0	80	-	130	
1,1-Dichloropropene	20.0	21.3	107	75	-	130	
Ethylbenzene	20.0	19.8	99.0	80	-	122	
2-Hexanone	20.0	20.1	101	55	-	130	

LCS - Modified 03/06/2008
 PDF File ID: 1270244
 Report generated: 12/11/2008 13:13



Login Number: L08120101 Run Date: 12/08/2008 Sample ID: WG289819-02
Instrument ID: HPMS8 Run Time: 12:41 Prep Method: 5030B
File ID: 8M350337 Analyst: CAA Method: 8260B
Workgroup (AAB#): WG289819 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD30169 Cal ID: HPMS8 - 14-NOV-08

Analytes	Expected	Found	% Rec	LCS Limits			Q
Hexachlorobutadiene	20.0	19.1	95.6	72	-	132	
Isopropylbenzene	20.0	18.7	93.6	80	-	122	
p-Isopropyltoluene	20.0	18.8	93.9	80	-	122	
4-Methyl-2-pentanone	20.0	22.1	111	64	-	140	
Methylene chloride	20.0	22.1	111	80	-	123	
Naphthalene	20.0	19.3	96.5	59	-	149	
n-Propylbenzene	20.0	19.1	95.7	80	-	129	
Styrene	20.0	20.6	103	80	-	123	
1,1,1,2-Tetrachloroethane	20.0	24.2	121	80	-	130	
1,1,2,2-Tetrachloroethane	20.0	19.6	98.2	79	-	125	
Tetrachloroethene	20.0	20.5	103	80	-	124	
Toluene	20.0	19.9	99.6	80	-	124	
1,2,3-Trichlorobenzene	20.0	18.8	94.2	55	-	140	
1,2,4-Trichlorobenzene	20.0	18.9	94.4	65	-	135	
1,1,1-Trichloroethane	20.0	22.9	114	80	-	134	
1,1,2-Trichloroethane	20.0	21.0	105	80	-	125	
Trichloroethene	20.0	21.1	105	80	-	122	
Trichlorofluoromethane	20.0	23.5	117	62	-	151	
1,2,3-Trichloropropane	20.0	20.8	104	75	-	125	
1,2,4-Trimethylbenzene	20.0	19.4	97.0	80	-	125	
1,3,5-Trimethylbenzene	20.0	19.1	95.5	80	-	127	
Vinyl acetate	20.0	21.1	105	10	-	150	
Vinyl chloride	20.0	34.6	173	65	-	140	*
o-Xylene	20.0	20.6	103	80	-	122	
m-,p-Xylene	40.0	39.9	99.8	80	-	122	

Surrogates	% Recovery	Surrogate Limits			Qualifier
Dibromofluoromethane	106	86	-	118	PASS
1,2-Dichloroethane-d4	105	80	-	120	PASS
Toluene-d8	101	88	-	110	PASS
4-Bromofluorobenzene	91.7	86	-	115	PASS

* FAILS %REC LIMIT

Login Number: L08120101 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289946 Units: ug/L
QC Key: STD Lot #: STD30200

Sample ID: WG289946-02 LCS File ID: 11M55887 Run Date: 12/09/2008 11:00
Sample ID: WG289946-03 LCS2 File ID: 11M55888 Run Date: 12/09/2008 11:31

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	24.9	125	20.0	24.6	123	1.08	40 - 142	20	
Benzene	20.0	20.3	102	20.0	20.6	103	1.42	80 - 121	20	
Bromobenzene	20.0	19.0	95.0	20.0	19.3	96.4	1.44	80 - 120	20	
Bromochloromethane	20.0	21.5	107	20.0	21.9	109	1.95	65 - 130	20	
Bromodichloromethane	20.0	23.1	115	20.0	23.0	115	0.279	80 - 131	20	
Bromoform	20.0	18.8	94.0	20.0	19.1	95.6	1.60	70 - 130	20	
Bromomethane	20.0	20.4	102	20.0	23.3	117	13.2	30 - 145	20	
2-Butanone	20.0	25.7	129	20.0	26.0	130	1.11	30 - 150	20	
n-Butylbenzene	20.0	19.3	96.7	20.0	19.1	95.7	1.02	80 - 131	20	
sec-Butylbenzene	20.0	18.9	94.6	20.0	19.1	95.5	0.996	80 - 127	20	
tert-Butylbenzene	20.0	18.9	94.6	20.0	19.1	95.7	1.12	80 - 126	20	
Carbon disulfide	20.0	20.1	100	20.0	21.0	105	4.42	58 - 138	20	
Carbon tetrachloride	20.0	24.0	120	20.0	24.7	124	2.91	65 - 140	20	
Chlorobenzene	20.0	19.6	97.8	20.0	19.8	99.0	1.20	80 - 120	20	
Chlorodibromomethane	20.0	21.0	105	20.0	21.2	106	1.04	60 - 135	20	
Chloroethane	20.0	20.1	100	20.0	21.1	105	4.85	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	19.2	95.9	20.0	19.9	99.5	3.68	58 - 151	20	
Chloroform	20.0	23.3	116	20.0	23.7	119	2.02	80 - 125	20	
Chloromethane	20.0	16.8	83.9	20.0	17.4	87.2	3.84	40 - 125	20	
2-Chlorotoluene	20.0	20.2	101	20.0	20.4	102	0.730	80 - 127	20	
4-Chlorotoluene	20.0	19.4	96.9	20.0	19.5	97.3	0.416	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	19.2	96.2	20.0	18.6	92.9	3.51	50 - 130	20	
1,2-Dibromoethane	20.0	18.9	94.5	20.0	19.0	95.0	0.502	80 - 125	20	
Dibromomethane	20.0	21.1	106	20.0	21.1	105	0.258	75 - 125	20	
1,2-Dichlorobenzene	20.0	19.1	95.7	20.0	18.9	94.7	1.04	80 - 125	20	
1,3-Dichlorobenzene	20.0	19.0	95.0	20.0	19.1	95.6	0.697	80 - 120	20	
1,4-Dichlorobenzene	20.0	18.7	93.3	20.0	18.6	92.8	0.460	80 - 120	20	
Dichlorodifluoromethane	20.0	23.4	117	20.0	23.6	118	1.09	50 - 133	20	
1,1-Dichloroethane	20.0	21.6	108	20.0	22.7	114	5.10	80 - 125	20	
1,2-Dichloroethane	20.0	22.2	111	20.0	22.0	110	0.862	80 - 129	20	
1,1-Dichloroethene	20.0	22.4	112	20.0	23.0	115	2.65	80 - 132	20	
cis-1,2-Dichloroethene	20.0	20.9	105	20.0	21.4	107	2.27	70 - 125	20	
trans-1,2-Dichloroethene	20.0	20.9	104	20.0	21.4	107	2.32	80 - 127	20	
1,2-Dichloropropane	20.0	20.9	104	20.0	21.4	107	2.50	80 - 120	20	
1,3-Dichloropropane	20.0	19.2	96.0	20.0	19.5	97.4	1.52	80 - 120	20	
2,2-Dichloropropane	20.0	20.0	99.9	20.0	24.7	123	21.0	80 - 133	20	#
cis-1,3-Dichloropropene	20.0	20.7	104	20.0	21.2	106	2.37	70 - 130	20	
trans-1,3-Dichloropropene	20.0	17.7	88.6	20.0	18.4	92.0	3.70	80 - 130	20	
1,1-Dichloropropene	20.0	21.1	106	20.0	21.5	107	1.65	75 - 130	20	
Ethylbenzene	20.0	19.9	99.3	20.0	20.2	101	1.84	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Report generated: 12/11/2008 15:21



Login Number: L08120101 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289946 Units: ug/L
QC Key: STD Lot #: STD30200

Sample ID: WG289946-02 LCS File ID: 11M55887 Run Date: 12/09/2008 11:00
Sample ID: WG289946-03 LCS2 File ID: 11M55888 Run Date: 12/09/2008 11:31

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	22.0	110	20.0	22.2	111	0.968	55 - 130	20	
Hexachlorobutadiene	20.0	18.0	90.0	20.0	17.9	89.6	0.459	72 - 132	20	
Isopropylbenzene	20.0	17.6	88.0	20.0	17.8	89.1	1.24	80 - 122	20	
p-Isopropyltoluene	20.0	18.4	92.1	20.0	18.5	92.7	0.654	80 - 122	20	
4-Methyl-2-pentanone	20.0	19.9	99.4	20.0	19.6	98.2	1.31	64 - 140	20	
Methylene chloride	20.0	20.1	100	20.0	20.4	102	1.70	80 - 123	20	
Naphthalene	20.0	18.0	90.2	20.0	17.6	88.0	2.39	59 - 149	20	
n-Propylbenzene	20.0	19.7	98.4	20.0	19.8	98.8	0.367	80 - 129	20	
Styrene	20.0	20.0	100	20.0	20.1	100	0.104	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	21.6	108	20.0	21.3	107	1.35	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	20.2	101	20.0	20.0	99.8	1.19	79 - 125	20	
Tetrachloroethene	20.0	18.7	93.6	20.0	19.0	95.2	1.73	80 - 124	20	
Toluene	20.0	19.1	95.3	20.0	19.3	96.7	1.47	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	17.8	89.1	20.0	17.6	88.2	1.05	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	18.0	89.9	20.0	17.9	89.6	0.343	65 - 135	20	
1,1,1-Trichloroethane	20.0	21.8	109	20.0	22.3	112	2.37	80 - 134	20	
1,1,2-Trichloroethane	20.0	19.5	97.4	20.0	19.8	99.1	1.75	80 - 125	20	
Trichloroethene	20.0	18.6	93.1	20.0	19.1	95.3	2.29	80 - 122	20	
Trichlorofluoromethane	20.0	21.7	108	20.0	22.3	111	2.67	62 - 151	20	
1,2,3-Trichloropropane	20.0	19.5	97.4	20.0	19.4	97.1	0.307	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	20.0	100	20.0	19.8	99.1	0.915	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	19.6	97.8	20.0	19.4	97.2	0.595	80 - 127	20	
Vinyl acetate	20.0	23.5	117	20.0	25.0	125	6.47	10 - 150	20	
Vinyl chloride	20.0	31.2	156	20.0	27.6	138	12.3	65 - 140	20	*
o-Xylene	20.0	19.7	98.3	20.0	20.2	101	2.51	80 - 122	20	
m-, p-Xylene	40.0	40.4	101	40.0	41.0	103	1.47	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	98.7	98.9	80 - 120	PASS
Dibromofluoromethane	102	102	86 - 118	PASS
4-Bromofluorobenzene	92.0	91.9	86 - 115	PASS
Toluene-d8	90.8	90.1	88 - 110	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1271237
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Login Number: L08120101 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289859 Units: ug/L
QC Key: STD Lot #: STD30169

Sample ID: WG289859-02 LCS File ID: 11M55859 Run Date: 12/08/2008 13:37
Sample ID: WG289859-03 LCS2 File ID: 11M55860 Run Date: 12/08/2008 14:13

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	25.5	128	20.0	23.4	117	8.50	40 - 142	20	
Benzene	20.0	21.3	107	20.0	20.5	103	3.69	80 - 121	20	
Bromobenzene	20.0	20.4	102	20.0	20.0	100	1.64	80 - 120	20	
Bromochloromethane	20.0	22.0	110	20.0	21.2	106	3.66	65 - 130	20	
Bromodichloromethane	20.0	23.5	117	20.0	22.5	113	4.25	80 - 131	20	
Bromoform	20.0	21.5	108	20.0	19.2	95.8	11.6	70 - 130	20	
Bromomethane	20.0	18.9	94.3	20.0	20.0	100	6.12	30 - 145	20	
2-Butanone	20.0	27.4	137	20.0	24.7	123	10.5	30 - 150	20	
n-Butylbenzene	20.0	19.7	98.7	20.0	19.5	97.5	1.26	80 - 131	20	
sec-Butylbenzene	20.0	19.7	98.5	20.0	19.7	98.6	0.0290	80 - 127	20	
tert-Butylbenzene	20.0	19.8	99.1	20.0	19.7	98.4	0.739	80 - 126	20	
Carbon disulfide	20.0	20.4	102	20.0	20.2	101	0.895	58 - 138	20	
Carbon tetrachloride	20.0	24.1	121	20.0	23.8	119	1.55	65 - 140	20	
Chlorobenzene	20.0	20.4	102	20.0	19.7	98.4	3.67	80 - 120	20	
Chlorodibromomethane	20.0	23.1	115	20.0	21.6	108	6.64	60 - 135	20	
Chloroethane	20.0	22.1	110	20.0	21.1	106	4.38	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	22.1	110	20.0	20.4	102	7.93	58 - 151	20	
Chloroform	20.0	22.9	114	20.0	22.2	111	2.78	80 - 125	20	
Chloromethane	20.0	17.8	89.2	20.0	17.1	85.6	4.05	40 - 125	20	
2-Chlorotoluene	20.0	21.4	107	20.0	21.5	107	0.197	80 - 127	20	
4-Chlorotoluene	20.0	20.0	100	20.0	19.6	98.0	2.04	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	21.7	109	20.0	18.2	90.8	17.8	50 - 130	20	
1,2-Dibromoethane	20.0	20.8	104	20.0	19.3	96.3	7.75	80 - 125	20	
Dibromomethane	20.0	22.1	110	20.0	20.8	104	5.89	75 - 125	20	
1,2-Dichlorobenzene	20.0	20.1	101	20.0	19.5	97.5	3.31	80 - 125	20	
1,3-Dichlorobenzene	20.0	20.0	99.9	20.0	19.6	98.0	1.85	80 - 120	20	
1,4-Dichlorobenzene	20.0	19.4	97.0	20.0	19.0	95.2	1.89	80 - 120	20	
Dichlorodifluoromethane	20.0	24.7	123	20.0	23.9	119	3.30	50 - 133	20	
1,1-Dichloroethane	20.0	22.0	110	20.0	21.4	107	2.63	80 - 125	20	
1,2-Dichloroethane	20.0	21.9	110	20.0	20.6	103	6.25	80 - 129	20	
1,1-Dichloroethene	20.0	22.1	111	20.0	21.7	108	2.03	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.5	107	20.0	20.7	103	3.89	70 - 125	20	
trans-1,2-Dichloroethene	20.0	21.0	105	20.0	20.6	103	2.11	80 - 127	20	
1,2-Dichloropropane	20.0	21.7	108	20.0	20.6	103	5.16	80 - 120	20	
1,3-Dichloropropane	20.0	21.0	105	20.0	19.2	95.9	9.21	80 - 120	20	
2,2-Dichloropropane	20.0	20.2	101	20.0	22.7	114	12.0	80 - 133	20	
cis-1,3-Dichloropropene	20.0	21.8	109	20.0	21.0	105	3.70	70 - 130	20	
trans-1,3-Dichloropropene	20.0	19.3	96.4	20.0	18.2	91.2	5.59	80 - 130	20	
1,1-Dichloropropene	20.0	21.4	107	20.0	20.7	103	3.60	75 - 130	20	
Ethylbenzene	20.0	21.0	105	20.0	20.4	102	2.74	80 - 122	20	

LCS_LCS2 - Modified 03/06/2008
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Login Number: L08120101 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289859 Units: ug/L
QC Key: STD Lot #: STD30169

Sample ID: WG289859-02 LCS File ID: 11M55859 Run Date: 12/08/2008 13:37
Sample ID: WG289859-03 LCS2 File ID: 11M55860 Run Date: 12/08/2008 14:13

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	23.7	119	20.0	20.8	104	13.2	55 - 130	20	
Hexachlorobutadiene	20.0	18.4	91.8	20.0	18.2	90.9	1.01	72 - 132	20	
Isopropylbenzene	20.0	18.3	91.6	20.0	17.9	89.4	2.44	80 - 122	20	
p-Isopropyltoluene	20.0	18.9	94.5	20.0	18.9	94.3	0.211	80 - 122	20	
4-Methyl-2-pentanone	20.0	23.2	116	20.0	20.2	101	13.8	64 - 140	20	
Methylene chloride	20.0	20.6	103	20.0	20.0	99.9	3.15	80 - 123	20	
Naphthalene	20.0	20.0	100	20.0	17.9	89.5	11.0	59 - 149	20	
n-Propylbenzene	20.0	20.5	103	20.0	20.5	103	0.0013	80 - 129	20	
Styrene	20.0	20.9	104	20.0	20.2	101	3.43	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	22.2	111	20.0	21.4	107	3.72	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	22.9	114	20.0	21.1	106	8.08	79 - 125	20	
Tetrachloroethene	20.0	19.3	96.4	20.0	19.1	95.4	1.05	80 - 124	20	
Toluene	20.0	19.8	99.2	20.0	19.6	98.2	1.01	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	19.0	95.1	20.0	17.8	88.8	6.93	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	18.6	93.1	20.0	18.0	90.0	3.38	65 - 135	20	
1,1,1-Trichloroethane	20.0	22.1	110	20.0	21.5	107	2.69	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.6	108	20.0	19.9	99.4	8.39	80 - 125	20	
Trichloroethene	20.0	19.2	96.0	20.0	18.5	92.6	3.60	80 - 122	20	
Trichlorofluoromethane	20.0	21.8	109	20.0	21.0	105	3.74	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.8	109	20.0	20.2	101	7.63	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	20.3	101	20.0	20.1	100	1.04	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	20.2	101	20.0	19.9	99.4	1.54	80 - 127	20	
Vinyl acetate	20.0	24.0	120	20.0	23.6	118	1.41	10 - 150	20	
Vinyl chloride	20.0	25.2	126	20.0	24.7	124	1.71	65 - 140	20	
o-Xylene	20.0	20.6	103	20.0	20.1	101	2.15	80 - 122	20	
m-, p-Xylene	40.0	42.0	105	40.0	41.3	103	1.68	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	96.8	93.1	80 - 120	PASS
Dibromofluoromethane	97.5	96.9	86 - 118	PASS
4-Bromofluorobenzene	94.6	94.9	86 - 115	PASS
Toluene-d8	90.5	92.1	88 - 110	PASS

* FAILS %REC LIMIT
FAILS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 1271237
Report generated: 12/11/2008 15:21



Loginnum: L08120101Cal ID: HPMS11- 25-NOV-08Worknum: WG289676Instrument ID: HPMS11Contract #: DACA56-94-D-0020Prep Method: 5030BParent ID: L08120101-04File ID: 11M55832Dil: 1Method: 8260BSample ID: L08120101-06 MSFile ID: 11M55833Dil: 1Matrix: WaterSample ID: L08120101-07 MSDFile ID: 11M55834Dil: 1Units: ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Acetone	ND	20.0	25.6	128	20.0	24.1	120	6.09	40 - 142	20	
Benzene	ND	20.0	19.8	98.9	20.0	19.9	99.5	0.624	80 - 121	20	
Bromobenzene	ND	20.0	19.7	98.4	20.0	20.2	101	2.76	80 - 120	20	
Bromochloromethane	ND	20.0	21.6	108	20.0	21.0	105	3.09	65 - 130	20	
Bromodichloromethane	ND	20.0	23.4	117	20.0	22.4	112	4.64	80 - 131	20	
Bromoform	ND	20.0	18.7	93.6	20.0	18.1	90.4	3.52	70 - 130	20	
Bromomethane	ND	20.0	19.9	99.3	20.0	21.9	110	9.83	30 - 145	20	
2-Butanone	ND	20.0	26.6	133	20.0	24.5	123	8.17	30 - 150	20	
n-Butylbenzene	ND	20.0	18.7	93.4	20.0	18.9	94.5	1.12	80 - 131	20	
sec-Butylbenzene	ND	20.0	18.7	93.4	20.0	19.2	95.8	2.49	80 - 127	20	
tert-Butylbenzene	ND	20.0	18.8	94	20.0	19.3	96.6	2.75	80 - 126	20	
Carbon disulfide	ND	20.0	19.4	97.2	20.0	19.6	98.1	0.923	58 - 138	20	
Carbon tetrachloride	ND	20.0	24.0	120	20.0	23.3	116	2.92	65 - 140	20	
Chlorobenzene	ND	20.0	19.5	97.3	20.0	19.8	98.8	1.55	80 - 120	20	
Chlorodibromomethane	ND	20.0	21.4	107	20.0	21.0	105	1.95	60 - 135	20	
Chloroethane	ND	20.0	20.1	101	20.0	20.5	103	1.77	60 - 135	20	
2-Chloroethyl vinyl ether	ND	20.0	0	0	20.0	0	0	NA	58 - 151	20	*#
Chloroform	ND	20.0	23.8	119	20.0	23.4	117	1.54	80 - 125	20	
Chloromethane	ND	20.0	16.5	82.4	20.0	17.0	84.8	2.89	40 - 125	20	
2-Chlorotoluene	ND	20.0	20.3	101	20.0	21.0	105	3.37	80 - 127	20	
4-Chlorotoluene	ND	20.0	19.4	96.8	20.0	20.1	101	3.93	80 - 126	20	
1,2-Dibromo-3-chloropropane	ND	20.0	18.8	94	20.0	17.8	89.1	5.43	50 - 130	20	
1,2-Dibromoethane	ND	20.0	19.4	97.1	20.0	18.8	93.9	3.32	80 - 125	20	
Dibromomethane	ND	20.0	21.7	108	20.0	20.3	101	6.78	75 - 125	20	
1,2-Dichlorobenzene	ND	20.0	19.1	95.3	20.0	19.1	95.3	0.0756	80 - 125	20	
1,3-Dichlorobenzene	ND	20.0	19.0	94.9	20.0	19.5	97.4	2.59	80 - 120	20	
1,4-Dichlorobenzene	ND	20.0	18.5	92.4	20.0	18.7	93.7	1.40	80 - 120	20	
Dichlorodifluoromethane	ND	20.0	23.8	119	20.0	23.3	117	2.24	50 - 133	20	
1,1-Dichloroethane	ND	20.0	21.9	109	20.0	22.0	110	0.357	80 - 125	20	
1,2-Dichloroethane	ND	20.0	22.7	114	20.0	21.2	106	6.84	80 - 129	20	
1,1-Dichloroethene	ND	20.0	21.9	109	20.0	21.3	107	2.54	80 - 132	20	
cis-1,2-Dichloroethene	ND	20.0	20.4	102	20.0	20.5	102	0.203	70 - 125	20	
trans-1,2-Dichloroethene	ND	20.0	20.2	101	20.0	20.2	101	0.0541	80 - 127	20	
1,2-Dichloropropane	ND	20.0	20.4	102	20.0	20.4	102	0.309	80 - 120	20	
1,3-Dichloropropane	ND	20.0	19.8	98.8	20.0	19.1	95.4	3.49	80 - 120	20	
2,2-Dichloropropane	ND	20.0	23.2	116	20.0	25.5	128	9.59	80 - 133	20	
cis-1,3-Dichloropropene	ND	20.0	21.0	105	20.0	20.4	102	2.71	70 - 130	20	
trans-1,3-Dichloropropene	ND	20.0	18.7	93.3	20.0	18.5	92.6	0.734	80 - 130	20	
1,1-Dichloropropene	ND	20.0	20.4	102	20.0	20.3	102	0.457	75 - 130	20	
Ethylbenzene	ND	20.0	19.4	97.2	20.0	20.0	99.9	2.74	80 - 122	20	
2-Hexanone	ND	20.0	23.1	116	20.0	21.5	108	7.18	55 - 130	20	

MS_MSD - Modified 03/06/2008

PDF File ID: 1270245

Report generated 12/11/2008 15:21

Microbac®

Loginnum: L08120101Cal ID: HPMS11 25-NOV-08Worknum: WG289676Instrument ID: HPMS11Contract #: DACA56-94-D-0020Prep Method: 5030BParent ID: L08120101-04File ID: 11M55832Dil: 1Method: 8260BSample ID: L08120101-06 MSFile ID: 11M55833Dil: 1Matrix: WaterSample ID: L08120101-07 MSDFile ID: 11M55834Dil: 1Units: ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Hexachlorobutadiene	ND	20.0	17.7	88.3	20.0	18.0	90	1.93	72 - 132	20	
Isopropylbenzene	ND	20.0	17.1	85.7	20.0	17.4	87.1	1.66	80 - 122	20	
p-Isopropyltoluene	ND	20.0	18.2	91.2	20.0	18.6	92.9	1.83	80 - 122	20	
4-Methyl-2-pentanone	ND	20.0	20.1	101	20.0	18.5	92.6	8.34	64 - 140	20	
Methylene chloride	ND	20.0	19.2	95.9	20.0	19.8	99	3.21	80 - 123	20	
Naphthalene	ND	20.0	18.0	90.1	20.0	17.0	84.8	6.04	59 - 149	20	
n-Propylbenzene	ND	20.0	19.6	97.9	20.0	20.2	101	2.94	80 - 129	20	
Styrene	ND	20.0	19.7	98.7	20.0	19.9	99.7	1.07	80 - 123	20	
1,1,1,2-Tetrachloroethane	ND	20.0	21.5	108	20.0	21.3	106	1.24	80 - 130	20	
1,1,2,2-Tetrachloroethane	ND	20.0	20.3	102	20.0	19.7	98.5	3.15	79 - 125	20	
Tetrachloroethene	ND	20.0	18.5	92.6	20.0	18.2	90.8	1.97	80 - 124	20	
Toluene	ND	20.0	19.0	95.2	20.0	19.4	97.1	1.94	80 - 124	20	
1,2,3-Trichlorobenzene	ND	20.0	18.0	90	20.0	17.0	85	5.65	55 - 140	20	
1,2,4-Trichlorobenzene	ND	20.0	18.1	90.4	20.0	17.6	87.8	2.93	65 - 135	20	
1,1,1-Trichloroethane	ND	20.0	21.4	107	20.0	20.9	104	2.82	80 - 134	20	
1,1,2-Trichloroethane	ND	20.0	19.9	99.5	20.0	19.4	96.8	2.70	80 - 125	20	
Trichloroethene	ND	20.0	18.6	92.8	20.0	18.6	93.1	0.243	80 - 122	20	
Trichlorofluoromethane	ND	20.0	21.9	109	20.0	21.0	105	4.16	62 - 151	20	
1,2,3-Trichloropropane	ND	20.0	19.2	96.1	20.0	19.7	98.4	2.42	75 - 125	20	
1,2,4-Trimethylbenzene	ND	20.0	19.7	98.4	20.0	20.1	101	2.22	80 - 125	20	
1,3,5-Trimethylbenzene	ND	20.0	19.3	96.5	20.0	19.9	99.4	2.96	80 - 127	20	
Vinyl acetate	ND	20.0	28.7	143	20.0	28.8	144	0.207	10 - 150	20	
Vinyl chloride	ND	20.0	27.8	139	20.0	27.1	136	2.59	65 - 140	20	
o-Xylene	ND	20.0	19.6	98.1	20.0	20.1	100	2.16	80 - 122	20	
m-, p-Xylene	ND	40.0	39.9	99.8	40.0	40.4	101	1.15	80 - 122	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 1270245

Report generated 12/11/2008 15:21



BFB

Login Number: L08120101
Instrument: HPMS11
Analyst: WTD
Workgroup: WG289038

Tune ID: WG289038-01
Run Date: 11/25/2008
Run Time: 12:53
File ID: 11M55536

Cal ID: HPMS11-25-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.4	20731	PASS
75.0	95.0	30.0	60.0	46.4	47232	PASS
95.0	95.0	100	100	100	101824	PASS
96.0	95.0	5.00	9.00	7.09	7222	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	89.3	90928	PASS
175	174	5.00	9.00	7.23	6572	PASS
176	174	95.0	101	95.4	86752	PASS
177	176	5.00	9.00	6.66	5780	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289038-02	STD	01	11/25/2008 16:23	
WG289038-03	STD	01	11/25/2008 16:54	
WG289038-04	STD	01	11/25/2008 17:26	
WG289038-05	STD	01	11/25/2008 17:58	
WG289038-06	STD	01	11/25/2008 18:30	
WG289038-07	STD	01	11/25/2008 19:01	
WG289038-08	STD-CCV	01	11/25/2008 19:33	
WG289038-09	STD	01	11/25/2008 20:05	
WG289038-10	STD	01	11/25/2008 20:37	
WG289038-11	STD	01	11/25/2008 21:08	
WG289038-12	SSCV	01	11/25/2008 22:44	

* Sample past 12 hour tune limit

BFB

Login Number: L08120101
Instrument: HPMS11
Analyst: WTD
Workgroup: WG289675

Tune ID: WG289675-01
Run Date: 12/05/2008
Run Time: 08:29
File ID: 11M55824

Cal ID: HPMS11-25-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	23.5	13963	PASS
75.0	95.0	30.0	60.0	46.3	27586	PASS
95.0	95.0	100	100	100	59528	PASS
96.0	95.0	5.00	9.00	6.83	4067	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	83.6	49781	PASS
175	174	5.00	9.00	7.96	3964	PASS
176	174	95.0	101	97.8	48682	PASS
177	176	5.00	9.00	6.09	2963	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289675-02	CCV	01	12/05/2008 08:56	
WG289676-01	BLANK	01	12/05/2008 09:59	
WG289676-01	BLANK	01	12/05/2008 09:59	
WG289676-02	LCS	01	12/05/2008 10:47	
WG289676-03	REF	DL01	12/05/2008 11:50	
L08120101-04	16WW45-120208	01	12/05/2008 12:54	
WG289676-03	REF	01	12/05/2008 12:54	
L08120101-06	16WW45-120208-MS	01	12/05/2008 13:26	
WG289676-04	MS	01	12/05/2008 13:26	
L08120101-07	16WW45-120208-MSD	01	12/05/2008 14:15	
WG289676-05	MSD	01	12/05/2008 14:15	
L08120101-05	16WW45-120208-FD	01	12/05/2008 15:18	
L08120101-11	35AWW08-112408	DL01	12/05/2008 16:23	
L08120101-08	03WW01-112408	DL02	12/05/2008 19:02	

* Sample past 12 hour tune limit

BFB

Login Number: L08120101
Instrument: HPMS11
Analyst: WTD
Workgroup: WG289858

Tune ID: WG289858-01
Run Date: 12/08/2008
Run Time: 11:36
File ID: 11M55855

Cal ID: HPMS11-25-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	21.3	14371	PASS
75.0	95.0	30.0	60.0	45.4	30656	PASS
95.0	95.0	100	100	100	67549	PASS
96.0	95.0	5.00	9.00	6.68	4511	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	80.6	54416	PASS
175	174	5.00	9.00	7.31	3977	PASS
176	174	95.0	101	98.2	53432	PASS
177	176	5.00	9.00	6.62	3536	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289858-02	CCV	01	12/08/2008 12:01	
WG289859-01	BLANK	01	12/08/2008 13:05	
WG289859-02	LCS	01	12/08/2008 13:37	
WG289859-03	LCS2	01	12/08/2008 14:13	
L08120101-01	16WW46-120108	01	12/08/2008 15:16	
L08120101-03	16WW43-120108	01	12/08/2008 15:48	
L08120101-09	35Aww06-120308	01	12/08/2008 17:56	
L08120101-12	35Aww07-112408	01	12/08/2008 18:28	
L08120101-13	35Aww02-112608	01	12/08/2008 19:00	
L08120101-14	35Aww02-112608-FD	01	12/08/2008 19:31	
L08120101-15	LHSMW04-112508	01	12/08/2008 20:03	
L08120101-19	16WW44-120108	01	12/08/2008 20:35	

* Sample past 12 hour tune limit

BFB

Login Number: L08120101
Instrument: HPMS11
Analyst: WTD
Workgroup: WG289940

Tune ID: WG289940-01
Run Date: 12/09/2008
Run Time: 08:23
File ID: 11M55882

Cal ID: HPMS11-25-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.2	15546	PASS
75.0	95.0	30.0	60.0	48.3	31058	PASS
95.0	95.0	100	100	100	64274	PASS
96.0	95.0	5.00	9.00	7.02	4512	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	75.3	48392	PASS
175	174	5.00	9.00	7.58	3666	PASS
176	174	95.0	101	97.6	47218	PASS
177	176	5.00	9.00	6.75	3187	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289940-02	CCV	01	12/09/2008 09:23	
WG289946-01	BLANK	01	12/09/2008 10:28	
WG289946-02	LCS	01	12/09/2008 11:00	
WG289946-03	LCS2	01	12/09/2008 11:31	
L08120101-02	16WW42-120108	DL01	12/09/2008 13:39	
L08120101-20	16WW41-120208	DL01	12/09/2008 14:11	

* Sample past 12 hour tune limit

BFB

Login Number: L08120101
Instrument: HPMS8
Analyst: CAA
Workgroup: WG287926

Tune ID: WG287926-01
Run Date: 11/14/2008
Run Time: 12:28
File ID: 8M349675

Cal ID: HPMS8-14-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.2	23114	PASS
75.0	95.0	30.0	60.0	46.5	53232	PASS
95.0	95.0	100	100	100	114448	PASS
96.0	95.0	5.00	9.00	6.51	7450	PASS
173	174	0	2.00	0.704	634	PASS
174	95.0	50.0	100	78.7	90072	PASS
175	174	5.00	9.00	7.23	6509	PASS
176	174	95.0	101	97.7	87994	PASS
177	176	5.00	9.00	6.56	5775	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG287926-02	STD	01	11/14/2008 13:35	
WG287926-04	STD	01	11/14/2008 14:39	
WG287926-05	STD	01	11/14/2008 15:11	
WG287926-06	STD	01	11/14/2008 15:43	
WG287926-03	STD	01	11/14/2008 16:14	
WG287926-07	STD	01	11/14/2008 16:46	
WG287926-08	STD-CCV	01	11/14/2008 17:18	
WG287926-09	STD	01	11/14/2008 17:49	
WG287926-10	STD	01	11/14/2008 18:21	
WG287926-11	STD	01	11/14/2008 18:53	
WG287926-12	SSCV	01	11/14/2008 20:28	

* Sample past 12 hour tune limit

BFB

Login Number: L08120101
Instrument: HPMS8
Analyst: CAA
Workgroup: WG289816

Tune ID: WG289816-01
Run Date: 12/08/2008
Run Time: 09:56
File ID: 8M350332

Cal ID: HPMS8 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	21.9	45552	PASS
75.0	95.0	30.0	60.0	47.0	97818	PASS
95.0	95.0	100	100	100	208021	PASS
96.0	95.0	5.00	9.00	6.96	14483	PASS
173	174	0	2.00	0.683	1162	PASS
174	95.0	50.0	100	81.8	170154	PASS
175	174	5.00	9.00	6.66	11324	PASS
176	174	95.0	101	97.2	165397	PASS
177	176	5.00	9.00	6.53	10802	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289816-02	CCV	01	12/08/2008 11:05	
WG289819-01	BLANK	01	12/08/2008 12:09	
WG289819-02	LCS	01	12/08/2008 12:41	
L08120101-22	TRIP BLANK	01	12/08/2008 14:17	
WG289819-03	REF	01	12/08/2008 18:33	
WG289819-04	MS	01	12/08/2008 19:05	
WG289819-05	MSD	01	12/08/2008 19:37	

* Sample past 12 hour tune limit

Login Number: L08120101
Analytical Method: 8260B
ICAL Workgroup: WG289038

Instrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
1,1-Dichloroethene	CCC	0.3660	5.39		
1,2-Dichloropropane	CCC	0.2280	3.45		
Chloroform	CCC	0.3755	7.39		
Ethylbenzene	CCC	0.4191	7.29		
Toluene	CCC	1.098	3.56		
Vinyl Chloride	CCC	0.1730	22.2		0.99900
1,1,2,2-Tetrachloroethane	SPCC	0.3385	9.50		
1,1-Dichloroethane	SPCC	0.4229	6.41		
Bromoform	SPCC	0.1190	17.1	0.99800	
Chlorobenzene	SPCC	0.7773	6.00		
Chloromethane	SPCC	0.2014	15.6		1.00000
1,1,1,2-Tetrachloroethane		0.2557	8.09		
1,1,1-Trichloroethane		0.3464	6.30		
1,1,2-Trichloroethane		0.1775	7.13		
1,1-Dichloropropene		0.2864	5.62		
1,2,3-Trichlorobenzene		0.6548	4.31		
1,2,3-Trichloropropane		0.1277	5.64		
1,2,4-Trichlorobenzene		0.7496	3.28		
1,2,4-Trimethylbenzene		2.045	3.81		
1,2-Dibromo-3-Chloropropane		0.06755	6.33		
1,2-Dibromoethane		0.1891	5.57		
1,2-Dichlorobenzene		1.112	3.04		
1,2-Dichloroethane		0.3208	3.40		
1,3,5-Trimethylbenzene		2.012	4.50		
1,3-Dichlorobenzene		1.213	3.08		
1,3-Dichloropropane		0.3175	5.53		
1,4-Dichlorobenzene		1.259	3.77		
2,2-Dichloropropane		0.2153	23.4	0.99800	
2-Butanone		0.06628	5.33		
2-Chloroethyl Vinyl Ether		0.1018	13.6		
2-Chlorotoluene		1.606	2.78		
2-Hexanone		0.1270	7.49		
4-Chlorotoluene		1.670	6.71		
4-Methyl-2-Pentanone		0.06563	7.11		
Acetone		0.04745	14.7		
Benzene		0.8111	3.23		
Bromobenzene		0.6233	2.88		
Bromochloromethane		0.1322	10.0		
Bromodichloromethane		0.2647	11.0		
Bromomethane		0.09393	14.6		
Carbon Disulfide		0.5403	15.5	0.99800	
Carbon Tetrachloride		0.2698	13.7		
Chloroethane		0.1328	10.9		
Dibromochloromethane		0.2265	12.5		
Dibromomethane		0.09999	5.45		

INT_CAL - Modified 03/06/2008
PDF File ID: 1273809
Report generated 12/11/2008 15:21



Login Number: L08120101
Analytical Method: 8260B
ICAL Workgroup: WG289038

Instrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
Dichlorodifluoromethane		0.2327	5.56		
Hexachlorobutadiene		0.2585	8.86		
Isopropylbenzene		1.299	6.10		
Methylene Chloride		0.2805	45.1		1.00000
Naphthalene		1.522	3.44		
Styrene		0.8605	6.60		
Tetrachloroethene		0.2302	6.08		
Trichloroethene		0.2892	20.5		1.00000
Trichlorofluoromethane		0.3776	5.62		
Vinyl Acetate		0.1223	48.2	0.99600	
cis-1,2-Dichloroethene		0.2278	4.49		
cis-1,3-Dichloropropene		0.2990	11.5		
m-,p-Xylene		0.5126	8.26		
n-Butylbenzene		1.769	6.57		
n-Propylbenzene		2.610	5.16		
o-Xylene		0.5060	6.18		
p-Isopropyltoluene		2.174	4.90		
sec-Butylbenzene		2.465	4.44		
tert-Butylbenzene		0.4352	4.77		
trans-1,2-Dichloroethene		0.2103	6.47		
trans-1,3-Dichloropropene		0.3221	10.2		

R = Correlation coefficient; 0.995 minimum
R² = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

Login Number: L08120101
Analytical Method: 8260B
ICAL Workgroup: WG287926

Instrument ID: HPMS8
Initial Calibration Date: 14-NOV-08 18:53
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
1,1-Dichloroethene	CCC	0.3817	5.09		
1,2-Dichloropropane	CCC	0.2489	10.4		
Chloroform	CCC	0.4127	8.16		
Ethylbenzene	CCC	0.4560	13.1		
Toluene	CCC	1.240	14.7		
Vinyl Chloride	CCC	0.1251	12.4		
1,1,2,2-Tetrachloroethane	SPCC	0.3790	7.48		
1,1-Dichloroethane	SPCC	0.4744	7.34		
Bromoform	SPCC	0.1195	19.8		1.00000
Chlorobenzene	SPCC	0.8727	14.5		
Chloromethane	SPCC	0.2064	18.5	1.00000	
1,1,1,2-Tetrachloroethane		0.2354	9.51		
1,1,1-Trichloroethane		0.3740	8.49		
1,1,2-Trichloroethane		0.1888	7.62		
1,1-Dichloropropene		0.3255	10.2		
1,2,3-Trichlorobenzene		0.5623	24.7		1.00000
1,2,3-Trichloropropane		0.1091	3.38		
1,2,4-Trichlorobenzene		0.6662	18.2		1.00000
1,2,4-Trimethylbenzene		2.096	13.3		
1,2-Dibromo-3-Chloropropane		0.06450	8.51		
1,2-Dibromoethane		0.1830	5.71		
1,2-Dichlorobenzene		1.109	11.6		
1,2-Dichloroethane		0.2912	5.92		
1,3,5-Trimethylbenzene		2.036	12.1		
1,3-Dichlorobenzene		1.248	12.4		
1,3-Dichloropropane		0.3457	8.99		
1,4-Dichlorobenzene		1.263	12.9		
2,2-Dichloropropane		0.3554	7.82		
2-Butanone		0.05732	4.87		
2-Chloroethyl Vinyl Ether		0.1026	6.06		
2-Chlorotoluene		2.205	12.6		
2-Hexanone		0.05702	9.00		
4-Chlorotoluene		1.891	11.6		
4-Methyl-2-Pentanone		0.04935	6.75		
Acetone		0.03877	6.09		
Benzene		0.9483	14.0		
Bromobenzene		0.6293	11.0		
Bromochloromethane		0.1231	10.3		
Bromodichloromethane		0.2703	5.25		
Bromomethane		0.1822	7.51		
Carbon Disulfide		0.7401	7.44		
Carbon Tetrachloride		0.2958	5.26		
Chloroethane		0.1977	5.74		
Dibromochloromethane		0.2045	8.37		
Dibromomethane		0.1083	6.90		

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Login Number: L08120101
Analytical Method: 8260B
ICAL Workgroup: WG287926

Instrument ID: HPMS8
Initial Calibration Date: 14-NOV-08 18:53
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
Dichlorodifluoromethane		0.3057	8.30		
Hexachlorobutadiene		0.2906	26.3	0.99900	
Isopropylbenzene		1.286	13.2		
Methylene Chloride		0.3074	46.8		1.00000
Naphthalene		1.264	15.4		1.00000
Styrene		0.8831	11.3		
Tetrachloroethene		0.2523	10.9		
Trichloroethene		0.2419	11.4		
Trichlorofluoromethane		0.4106	14.5		
Vinyl Acetate		0.2588	22.1		0.99800
cis-1,2-Dichloroethene		0.2567	9.24		
cis-1,3-Dichloropropene		0.3479	5.01		
m-,p-Xylene		0.5608	13.7		
n-Butylbenzene		1.835	11.8		
n-Propylbenzene		3.032	14.4		
o-Xylene		0.5452	14.4		
p-Isopropyltoluene		2.016	11.9		
sec-Butylbenzene		2.309	12.2		
tert-Butylbenzene		0.4286	9.31		
trans-1,2-Dichloroethene		0.3722	11.2		
trans-1,3-Dichloropropene		0.3658	4.46		

R = Correlation coefficient; 0.995 minimum
R² = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

Login Number: L08120101
Analytical Method: 8260BInstrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte	WG289038-02			WG289038-03			WG289038-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	6778.00000	0.3277	1.00	18158.0000	0.3578
1,2-Dichloropropane	NA	NA	NA	0.400	4419.00000	0.2137	1.00	11357.0000	0.2238
Chloroform	0.300	5528.00000	0.3418	0.400	6873.00000	0.3323	1.00	18362.0000	0.3618
Ethylbenzene	NA	NA	NA	0.400	7400.00000	0.4456	1.00	16363.0000	0.3956
Toluene	NA	NA	NA	0.400	18373.0000	1.106	1.00	45479.0000	1.100
Vinyl Chloride	NA	NA	NA	NA	NA	NA	1.00	10278.0000	0.2025
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	2576.00000	0.2770	1.00	7247.00000	0.3160
1,1-Dichloroethane	NA	NA	NA	0.400	7962.00000	0.3850	1.00	20064.0000	0.3953
Bromoform	NA	NA	NA	NA	NA	NA	1.00	4117.00000	0.09950
Chlorobenzene	NA	NA	NA	0.400	13250.0000	0.7978	1.00	31679.0000	0.7659
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	12775.0000	0.2517
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	3945.00000	0.2375	1.00	10065.0000	0.2433
1,1,1-Trichloroethane	NA	NA	NA	0.400	6642.00000	0.3212	1.00	16818.0000	0.3314
1,1,2-Trichloroethane	NA	NA	NA	0.400	2599.00000	0.1565	1.00	7339.00000	0.1774
1,1-Dichloropropene	NA	NA	NA	0.400	5422.00000	0.2622	1.00	13860.0000	0.2731
1,2,3-Trichlorobenzene	0.300	4564.00000	0.6346	0.400	6295.00000	0.6768	1.00	15005.0000	0.6542
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	2599.00000	0.1133
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	0	0	1.00	17142.0000	0.7474
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	1.00	44640.0000	1.946
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	0.400	2856.00000	0.1720	1.00	7978.00000	0.1929
1,2-Dichlorobenzene	0.300	7821.00000	1.088	0.400	10275.0000	1.105	1.00	25114.0000	1.095
1,2-Dichloroethane	NA	NA	NA	0.400	6594.00000	0.3188	1.00	15363.0000	0.3027
1,3,5-Trimethylbenzene	NA	NA	NA	0.400	17953.0000	1.930	1.00	43699.0000	1.905
1,3-Dichlorobenzene	NA	NA	NA	0.400	11164.0000	1.200	1.00	26736.0000	1.166
1,3-Dichloropropane	NA	NA	NA	0.400	4996.00000	0.3008	1.00	13215.0000	0.3195
1,4-Dichlorobenzene	0.300	9508.00000	1.322	0.400	12134.0000	1.305	1.00	28177.0000	1.229
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	1.00	9478.00000	0.1867
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	0.400	14469.0000	1.556	1.00	35927.0000	1.567
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	15776.0000	1.696	1.00	36297.0000	1.583
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	16629.0000	0.8040	1.00	40215.0000	0.7924
Bromobenzene	0.300	4534.00000	0.6305	0.400	5560.00000	0.5978	1.00	13794.0000	0.6014
Bromochloromethane	NA	NA	NA	0.400	2348.00000	0.1135	1.00	5860.00000	0.1155
Bromodichloromethane	NA	NA	NA	0.400	4599.00000	0.2224	1.00	11760.0000	0.2317
Bromomethane	NA	NA	NA	0.400	1462.00000	0.07070	1.00	4291.00000	0.08450
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	26163.0000	0.5155
Carbon Tetrachloride	NA	NA	NA	0.400	4549.00000	0.2200	1.00	12003.0000	0.2365

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Column ID: F

Analyte	WG289038-05			WG289038-06			WG289038-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	36805.0000	0.3657	5.00	95895.0000	0.3841	20.0	370042.000	0.3746
1,2-Dichloropropane	2.00	22398.0000	0.2226	5.00	57181.0000	0.2290	20.0	231290.000	0.2341
Chloroform	2.00	36005.0000	0.3578	5.00	96019.0000	0.3846	20.0	388074.000	0.3929
Ethylbenzene	2.00	35086.0000	0.4320	5.00	90379.0000	0.4444	20.0	359218.000	0.4395
Toluene	2.00	88046.0000	1.084	5.00	229467.000	1.128	20.0	911902.000	1.116
Vinyl Chloride	2.00	23199.0000	0.2305	5.00	49924.0000	0.2000	20.0	164650.000	0.1667
1,1,2,2-Tetrachloroethane	2.00	15148.0000	0.3348	5.00	37729.0000	0.3299	20.0	158326.000	0.3448
1,1-Dichloroethane	2.00	39867.0000	0.3962	5.00	106690.000	0.4273	20.0	429033.000	0.4343
Bromoform	2.00	7668.00000	0.09440	5.00	22673.0000	0.1115	20.0	105675.000	0.1293
Chlorobenzene	2.00	64952.0000	0.7996	5.00	167583.000	0.8240	20.0	655667.000	0.8022
Chloromethane	2.00	19820.0000	0.1970	5.00	43560.0000	0.1745	20.0	171590.000	0.1737
1,1,1,2-Tetrachloroethane	2.00	20887.0000	0.2571	5.00	55950.0000	0.2751	20.0	224495.000	0.2747
1,1,1-Trichloroethane	2.00	31987.0000	0.3179	5.00	90090.0000	0.3608	20.0	361958.000	0.3664
1,1,2-Trichloroethane	2.00	15164.0000	0.1867	5.00	37273.0000	0.1833	20.0	152020.000	0.1860
1,1-Dichloropropene	2.00	28415.0000	0.2824	5.00	75359.0000	0.3018	20.0	296937.000	0.3006
1,2,3-Trichlorobenzene	2.00	28945.0000	0.6397	5.00	78035.0000	0.6824	20.0	319194.000	0.6951
1,2,3-Trichloropropane	2.00	5930.00000	0.1311	5.00	14997.0000	0.1311	20.0	58034.0000	0.1264
1,2,4-Trichlorobenzene	2.00	32962.0000	0.7285	5.00	87740.0000	0.7672	20.0	362474.000	0.7893
1,2,4-Trimethylbenzene	2.00	90852.0000	2.008	5.00	239284.000	2.092	20.0	973359.000	2.120
1,2-Dibromo-3-Chloropropane	2.00	2820.00000	0.06230	5.00	7122.00000	0.06230	20.0	31404.0000	0.06840
1,2-Dibromoethane	2.00	16116.0000	0.1984	5.00	39423.0000	0.1938	20.0	155365.000	0.1901
1,2-Dichlorobenzene	2.00	50698.0000	1.121	5.00	129487.000	1.132	20.0	530291.000	1.155
1,2-Dichloroethane	2.00	32686.0000	0.3248	5.00	81599.0000	0.3268	20.0	324510.000	0.3285
1,3,5-Trimethylbenzene	2.00	87081.0000	1.925	5.00	238841.000	2.089	20.0	962500.000	2.096
1,3-Dichlorobenzene	2.00	54366.0000	1.202	5.00	142777.000	1.249	20.0	573212.000	1.248
1,3-Dichloropropane	2.00	26074.0000	0.3210	5.00	68389.0000	0.3363	20.0	265438.000	0.3247
1,4-Dichlorobenzene	2.00	56817.0000	1.256	5.00	144331.000	1.262	20.0	586352.000	1.277
2,2-Dichloropropane	2.00	13580.0000	0.1349	5.00	46173.0000	0.1849	20.0	212149.000	0.2148
2-Butanone	NA	NA	NA	5.00	16077.0000	0.06440	20.0	66767.0000	0.06760
2-Chloroethyl Vinyl Ether	2.00	8023.00000	0.07970	5.00	21933.0000	0.08780	20.0	97520.0000	0.09870
2-Chlorotoluene	2.00	71837.0000	1.588	5.00	190883.000	1.669	20.0	755268.000	1.645
2-Hexanone	NA	NA	NA	5.00	23961.0000	0.1178	20.0	107795.000	0.1319
4-Chlorotoluene	2.00	74700.0000	1.651	5.00	197542.000	1.727	20.0	797792.000	1.737
4-Methyl-2-Pentanone	NA	NA	NA	5.00	14778.0000	0.05920	20.0	63860.0000	0.06460
Acetone	NA	NA	NA	5.00	14761.0000	0.05910	20.0	49685.0000	0.05030
Benzene	2.00	80890.0000	0.8038	5.00	208394.000	0.8347	20.0	822720.000	0.8329
Bromobenzene	2.00	28958.0000	0.6400	5.00	72303.0000	0.6323	20.0	287683.000	0.6264
Bromochloromethane	2.00	12098.0000	0.1202	5.00	34742.0000	0.1391	20.0	139953.000	0.1417
Bromodichloromethane	2.00	24530.0000	0.2438	5.00	65703.0000	0.2632	20.0	276466.000	0.2799
Bromomethane	2.00	8454.00000	0.08400	5.00	22580.0000	0.09040	20.0	105931.000	0.1072
Carbon Disulfide	2.00	37955.0000	0.3772	5.00	127473.000	0.5106	20.0	561374.000	0.5683
Carbon Tetrachloride	2.00	22661.0000	0.2252	5.00	68816.0000	0.2756	20.0	292874.000	0.2965

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Column ID: F

Analyte	WG289038-08			WG289038-09			WG289038-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	979133.000	0.3846	100	2085058.00	0.3817	200	3334619.00	0.3520
1,2-Dichloropropane	50.0	609132.000	0.2393	100	1262724.00	0.2312	200	2179039.00	0.2300
Chloroform	50.0	1034681.00	0.4064	100	2205188.00	0.4037	200	3774720.00	0.3985
Ethylbenzene	50.0	902398.000	0.4313	100	1837248.00	0.4064	200	3227716.00	0.3579
Toluene	50.0	2327304.00	1.112	100	5094224.00	1.127	200	9088258.00	1.008
Vinyl Chloride	50.0	351202.000	0.1380	100	777258.000	0.1423	200	1243566.00	0.1313
1,1,2,2-Tetrachloroethane	50.0	443237.000	0.3770	100	828168.000	0.3641	200	1600703.00	0.3647
1,1-Dichloroethane	50.0	1153017.00	0.4529	100	2474959.00	0.4531	200	4161499.00	0.4393
Bromoform	50.0	305022.000	0.1458	100	603346.000	0.1335	NA	NA	NA
Chlorobenzene	50.0	1673104.00	0.7996	100	3406779.00	0.7536	200	6094122.00	0.6758
Chloromethane	50.0	440231.000	0.1729	100	1129622.00	0.2068	200	2210890.00	0.2334
1,1,1,2-Tetrachloroethane	50.0	587343.000	0.2807	100	1155211.00	0.2555	200	2000186.00	0.2218
1,1,1-Trichloroethane	50.0	952920.000	0.3743	100	1969228.00	0.3605	200	3204423.00	0.3383
1,1,2-Trichloroethane	50.0	401641.000	0.1920	100	803256.000	0.1777	200	1449226.00	0.1607
1,1-Dichloropropene	50.0	776009.000	0.3048	100	1605853.00	0.2940	200	2580164.00	0.2724
1,2,3-Trichlorobenzene	50.0	781650.000	0.6649	100	1458429.00	0.6412	200	2650816.00	0.6040
1,2,3-Trichloropropane	50.0	160170.000	0.1362	100	295503.000	0.1299	200	553980.000	0.1262
1,2,4-Trichlorobenzene	50.0	898753.000	0.7645	100	1698042.00	0.7466	200	3112029.00	0.7090
1,2,4-Trimethylbenzene	50.0	2476841.00	2.107	100	4777925.00	2.101	200	8522778.00	1.942
1,2-Dibromo-3-Chloropropane	50.0	85157.0000	0.07240	100	159231.000	0.07000	200	306934.000	0.06990
1,2-Dibromoethane	50.0	420554.000	0.2010	100	857900.000	0.1898	200	1572982.00	0.1744
1,2-Dichlorobenzene	50.0	1358930.00	1.156	100	2514677.00	1.106	200	4606323.00	1.050
1,2-Dichloroethane	50.0	858084.000	0.3371	100	1734140.00	0.3175	200	2938265.00	0.3102
1,3,5-Trimethylbenzene	50.0	2450598.00	2.084	100	4805679.00	2.113	200	8580284.00	1.955
1,3-Dichlorobenzene	50.0	1472318.00	1.252	100	2790859.00	1.227	200	5083698.00	1.158
1,3-Dichloropropane	50.0	706137.000	0.3375	100	1424724.00	0.3152	200	2570090.00	0.2850
1,4-Dichlorobenzene	50.0	1506819.00	1.282	100	2821679.00	1.241	200	5090227.00	1.160
2,2-Dichloropropane	50.0	648063.000	0.2546	100	1374111.00	0.2515	200	2652613.00	0.2800
2-Butanone	50.0	183039.000	0.07190	100	348484.000	0.06380	200	642638.000	0.06780
2-Chloroethyl Vinyl Ether	50.0	281829.000	0.1107	100	575188.000	0.1053	200	1072407.00	0.1132
2-Chlorotoluene	50.0	1941162.00	1.651	100	3550640.00	1.561	200	7066612.00	1.610
2-Hexanone	50.0	301422.000	0.1441	100	553447.000	0.1224	200	1103055.00	0.1223
4-Chlorotoluene	50.0	2053429.00	1.747	100	4050364.00	1.781	200	6317362.00	1.439
4-Methyl-2-Pentanone	50.0	176463.000	0.06930	100	334564.000	0.06120	200	657889.000	0.06950
Acetone	50.0	120503.000	0.04730	100	241448.000	0.04420	200	431165.000	0.04550
Benzene	50.0	2139559.00	0.8404	100	4472753.00	0.8188	200	7218097.00	0.7620
Bromobenzene	50.0	753433.000	0.6409	100	1453056.00	0.6389	200	2640077.00	0.6015
Bromochloromethane	50.0	365215.000	0.1435	100	766388.000	0.1403	200	1360673.00	0.1436
Bromodichloromethane	50.0	749917.000	0.2946	100	1557314.00	0.2851	200	2812462.00	0.2969
Bromomethane	50.0	257555.000	0.1012	100	568631.000	0.1041	200	1035003.00	0.1093
Carbon Disulfide	50.0	1529631.00	0.6008	100	3445031.00	0.6307	200	5482190.00	0.5788
Carbon Tetrachloride	50.0	797722.000	0.3133	100	1614309.00	0.2955	200	2798099.00	0.2954

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Column ID: F

Analyte	WG289038-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1,2-Tetrachloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA
2-Butanone	300	934262.000	0.06220
2-Chloroethyl Vinyl Ether	300	1758647.00	0.1170
2-Chlorotoluene	NA	NA	NA
2-Hexanone	300	1737022.00	0.1237
4-Chlorotoluene	NA	NA	NA
4-Methyl-2-Pentanone	300	1051577.00	0.07000
Acetone	300	575315.000	0.03830
Benzene	NA	NA	NA
Bromobenzene	NA	NA	NA
Bromochloromethane	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA

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Column ID: F

Analyte	WG289038-02			WG289038-03			WG289038-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	6444.00000	0.1270
Dibromochloromethane	NA	NA	NA	0.400	3091.00000	0.1861	1.00	8508.00000	0.2057
Dibromomethane	NA	NA	NA	0.400	1828.00000	0.08840	1.00	5036.00000	0.09920
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	12672.00000	0.2497
Hexachlorobutadiene	NA	NA	NA	0.400	2248.00000	0.2417	1.00	4959.00000	0.2162
Isopropylbenzene	NA	NA	NA	0.400	21390.00000	1.288	1.00	52122.00000	1.260
Methylene Chloride	NA	NA	NA	0.400	11843.00000	0.5726	1.00	17081.00000	0.3366
Naphthalene	NA	NA	NA	0.400	13680.00000	1.471	1.00	35174.00000	1.534
Styrene	NA	NA	NA	0.400	13764.00000	0.8287	1.00	33507.00000	0.8101
Tetrachloroethene	NA	NA	NA	0.400	3847.00000	0.2316	1.00	9032.00000	0.2184
Trichloroethene	NA	NA	NA	0.400	8740.00000	0.4226	1.00	16008.00000	0.3154
Trichlorofluoromethane	NA	NA	NA	0.400	7171.00000	0.3467	1.00	20845.00000	0.4107
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	4501.00000	0.2176	1.00	11165.00000	0.2200
cis-1,3-Dichloropropene	NA	NA	NA	0.400	5146.00000	0.2488	1.00	13638.00000	0.2687
m-,p-Xylene	NA	NA	NA	0.800	17267.00000	0.5198	2.00	42498.00000	0.5137
n-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	36080.00000	1.573
n-Propylbenzene	NA	NA	NA	0.400	22773.00000	2.449	1.00	57237.00000	2.496
o-Xylene	NA	NA	NA	0.400	8355.00000	0.5031	1.00	19752.00000	0.4775
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	1.00	46534.00000	2.029
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	53369.00000	2.327
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	9933.00000	0.4331
trans-1,2-Dichloroethene	NA	NA	NA	0.400	3877.00000	0.1875	1.00	9967.00000	0.1964
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	12348.00000	0.2985

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Analyte	WG289038-05			WG289038-06			WG289038-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	2.00	10558.0000	0.1049	5.00	32770.0000	0.1312	20.0	144027.000	0.1458
Dibromochloromethane	2.00	16310.0000	0.2008	5.00	44641.0000	0.2195	20.0	199901.000	0.2446
Dibromomethane	2.00	9807.00000	0.09750	5.00	25265.0000	0.1012	20.0	102168.000	0.1034
Dichlorodifluoromethane	2.00	21878.0000	0.2174	5.00	59345.0000	0.2377	20.0	243710.000	0.2467
Hexachlorobutadiene	2.00	11035.0000	0.2439	5.00	32443.0000	0.2837	20.0	128441.000	0.2797
Isopropylbenzene	2.00	104645.000	1.288	5.00	282594.000	1.390	20.0	1127112.00	1.379
Methylene Chloride	2.00	27023.0000	0.2685	5.00	59413.0000	0.2380	20.0	210133.000	0.2127
Naphthalene	2.00	69400.0000	1.534	5.00	176857.000	1.547	20.0	725789.000	1.581
Styrene	2.00	69150.0000	0.8513	5.00	185503.000	0.9121	20.0	755443.000	0.9242
Tetrachloroethene	2.00	18358.0000	0.2260	5.00	50532.0000	0.2485	20.0	196906.000	0.2409
Trichloroethene	2.00	28855.0000	0.2867	5.00	69819.0000	0.2796	20.0	259767.000	0.2630
Trichlorofluoromethane	2.00	36425.0000	0.3620	5.00	97338.0000	0.3899	20.0	387902.000	0.3927
Vinyl Acetate	NA	NA	NA	5.00	9636.00000	0.03860	20.0	62070.0000	0.06280
cis-1,2-Dichloroethene	2.00	21377.0000	0.2124	5.00	60397.0000	0.2419	20.0	225618.000	0.2284
cis-1,3-Dichloropropene	2.00	26336.0000	0.2617	5.00	75247.0000	0.3014	20.0	316467.000	0.3204
m-,p-Xylene	4.00	84095.0000	0.5177	10.0	228847.000	0.5626	40.0	891423.000	0.5453
n-Butylbenzene	2.00	74431.0000	1.645	5.00	208952.000	1.827	20.0	844574.000	1.839
n-Propylbenzene	2.00	110867.000	2.450	5.00	307707.000	2.691	20.0	1240072.00	2.700
o-Xylene	2.00	41234.0000	0.5076	5.00	109945.000	0.5406	20.0	439944.000	0.5382
p-Isopropyltoluene	2.00	93747.0000	2.072	5.00	259522.000	2.269	20.0	1043198.00	2.272
sec-Butylbenzene	2.00	105225.000	2.326	5.00	293943.000	2.570	20.0	1161382.00	2.529
tert-Butylbenzene	2.00	18325.0000	0.4050	5.00	53075.0000	0.4641	20.0	206990.000	0.4507
trans-1,2-Dichloroethene	2.00	20733.0000	0.2060	5.00	56015.0000	0.2243	20.0	214566.000	0.2172
trans-1,3-Dichloropropene	2.00	21856.0000	0.2691	5.00	65056.0000	0.3199	20.0	280478.000	0.3431

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Column ID: F

Analyte	WG289038-08			WG289038-09			WG289038-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	50.0	365915.000	0.1437	100	790900.000	0.1448	200	1251276.00	0.1321
Dibromochloromethane	50.0	561785.000	0.2685	100	1144550.00	0.2532	200	2107262.00	0.2337
Dibromomethane	50.0	270198.000	0.1061	100	547697.000	0.1003	200	983607.000	0.1038
Dichlorodifluoromethane	50.0	575710.000	0.2261	100	1275258.00	0.2335	200	2064143.00	0.2179
Hexachlorobutadiene	50.0	318451.000	0.2709	100	614752.000	0.2703	200	1146779.00	0.2613
Isopropylbenzene	50.0	2850002.00	1.362	100	5784286.00	1.280	200	10340629.0	1.147
Methylene Chloride	50.0	533247.000	0.2095	100	1143151.00	0.2093	200	1861403.00	0.1965
Naphthalene	50.0	1855706.00	1.578	100	3409862.00	1.499	200	6275005.00	1.430
Styrene	50.0	1940845.00	0.9276	100	3873219.00	0.8568	200	6969888.00	0.7729
Tetrachloroethene	50.0	497194.000	0.2376	100	1059828.00	0.2344	200	1838843.00	0.2039
Trichloroethene	50.0	663247.000	0.2605	100	1370656.00	0.2509	200	2224774.00	0.2349
Trichlorofluoromethane	50.0	951113.000	0.3736	100	2113644.00	0.3869	200	3391857.00	0.3581
Vinyl Acetate	50.0	333042.000	0.1308	100	804203.000	0.1472	200	1608346.00	0.1698
cis-1,2-Dichloroethene	50.0	601910.000	0.2364	100	1280523.00	0.2344	200	2193316.00	0.2316
cis-1,3-Dichloropropene	50.0	857860.000	0.3370	100	1775063.00	0.3249	200	3114860.00	0.3288
m-,p-Xylene	100	2207251.00	0.5275	200	4453076.00	0.4925	400	7603407.00	0.4216
n-Butylbenzene	50.0	2177743.00	1.852	100	4273807.00	1.879	200	7743399.00	1.764
n-Propylbenzene	50.0	3165794.00	2.693	100	6394031.00	2.811	200	11374760.0	2.592
o-Xylene	50.0	1112963.00	0.5319	100	2254029.00	0.4986	200	4063869.00	0.4507
p-Isopropyltoluene	50.0	2641045.00	2.246	100	5107611.00	2.246	200	9158172.00	2.087
sec-Butylbenzene	50.0	2970743.00	2.527	100	5844661.00	2.570	200	10562278.0	2.407
tert-Butylbenzene	50.0	518434.000	0.4410	100	1001449.00	0.4403	200	1808591.00	0.4121
trans-1,2-Dichloroethene	50.0	570094.000	0.2239	100	1206507.00	0.2209	200	1951060.00	0.2060
trans-1,3-Dichloropropene	50.0	768194.000	0.3671	100	1557615.00	0.3445	200	2818366.00	0.3125

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Analytical Method: 8260B

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Column ID: F

Analyte	WG289038-11		
	CONC	RESP	RF
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Dibromomethane	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA
Isopropylbenzene	NA	NA	NA
Methylene Chloride	NA	NA	NA
Naphthalene	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA
Vinyl Acetate	300	2776303.00	0.1848
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-, p-Xylene	NA	NA	NA
n-Butylbenzene	NA	NA	NA
n-Propylbenzene	NA	NA	NA
o-Xylene	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA
sec-Butylbenzene	NA	NA	NA
tert-Butylbenzene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA

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Column ID: F

Analyte	WG287926-02			WG287926-03			WG287926-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	4915.00000	0.3951	1.00	12882.0000	0.4211
1,2-Dichloropropane	NA	NA	NA	0.400	3319.00000	0.2668	1.00	9104.00000	0.2976
Chloroform	0.300	3817.00000	0.4169	0.400	5568.00000	0.4476	1.00	14752.0000	0.4823
Ethylbenzene	NA	NA	NA	0.400	5210.00000	0.5115	1.00	13297.0000	0.5347
Toluene	NA	NA	NA	0.400	14461.0000	1.420	1.00	36860.0000	1.482
Vinyl Chloride	NA	NA	NA	0.400	1628.00000	0.1309	1.00	4855.00000	0.1587
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	2354.00000	0.4384	1.00	5195.00000	0.3925
1,1-Dichloroethane	NA	NA	NA	0.400	6191.00000	0.4977	1.00	16650.0000	0.5443
Bromoform	NA	NA	NA	NA	NA	NA	1.00	2332.00000	0.09380
Chlorobenzene	NA	NA	NA	0.400	10588.0000	1.040	1.00	25157.0000	1.012
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	8560.00000	0.2798
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	2420.00000	0.2376	1.00	6607.00000	0.2657
1,1,1-Trichloroethane	NA	NA	NA	0.400	4864.00000	0.3910	1.00	13448.0000	0.4396
1,1,2-Trichloroethane	NA	NA	NA	0.400	2036.00000	0.1999	1.00	5361.00000	0.2156
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	11829.0000	0.3867
1,2,3-Trichlorobenzene	0.300	1824.00000	0.4779	0.400	4764.00000	0.8872	1.00	8705.00000	0.6577
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	1463.00000	0.1105
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	4767.00000	0.8877	1.00	10571.0000	0.7987
1,2,4-Trimethylbenzene	NA	NA	NA	0.400	12636.0000	2.353	1.00	33091.0000	2.500
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	0.400	1869.00000	0.1835	1.00	5007.00000	0.2013
1,2-Dichlorobenzene	0.300	4238.00000	1.111	0.400	6538.00000	1.218	1.00	17383.0000	1.313
1,2-Dichloroethane	NA	NA	NA	0.400	3835.00000	0.3083	1.00	9726.00000	0.3180
1,3,5-Trimethylbenzene	NA	NA	NA	0.400	12061.0000	2.246	1.00	31882.0000	2.409
1,3-Dichlorobenzene	NA	NA	NA	0.400	7462.00000	1.390	1.00	19304.0000	1.459
1,3-Dichloropropane	NA	NA	NA	0.400	3967.00000	0.3895	1.00	9553.00000	0.3841
1,4-Dichlorobenzene	0.300	4814.00000	1.261	0.400	8122.00000	1.513	1.00	19241.0000	1.454
2,2-Dichloropropane	NA	NA	NA	0.400	4516.00000	0.3630	1.00	12610.0000	0.4123
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	1.00	3048.00000	0.09960
2-Chlorotoluene	NA	NA	NA	0.400	13010.0000	2.423	1.00	34310.0000	2.592
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	11799.0000	2.197	1.00	27769.0000	2.098
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	13524.0000	1.087	1.00	35164.0000	1.150
Bromobenzene	0.300	2247.00000	0.5888	0.400	3702.00000	0.6894	1.00	9894.00000	0.7476
Bromochloromethane	NA	NA	NA	0.400	1318.00000	0.1059	1.00	4499.00000	0.1471
Bromodichloromethane	NA	NA	NA	0.400	3096.00000	0.2489	1.00	8834.00000	0.2888
Bromomethane	NA	NA	NA	NA	NA	NA	1.00	5639.00000	0.1844
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	25873.0000	0.8459
Carbon Tetrachloride	NA	NA	NA	0.400	3587.00000	0.2883	1.00	10090.0000	0.3299

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Column ID: F

Analyte	WG287926-05			WG287926-06			WG287926-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	23281.0000	0.3733	5.00	59450.0000	0.3751	20.0	241169.000	0.3779
1,2-Dichloropropane	2.00	15561.0000	0.2495	5.00	39129.0000	0.2469	20.0	160681.000	0.2518
Chloroform	2.00	25586.0000	0.4103	5.00	63651.0000	0.4016	20.0	257180.000	0.4030
Ethylbenzene	2.00	23713.0000	0.4695	5.00	59298.0000	0.4677	20.0	227066.000	0.4432
Toluene	2.00	68004.0000	1.347	5.00	161405.000	1.273	20.0	636551.000	1.242
Vinyl Chloride	2.00	8145.00000	0.1306	5.00	18705.0000	0.1180	20.0	77218.00000	0.1210
1,1,2,2-Tetrachloroethane	2.00	10604.0000	0.3947	5.00	24075.0000	0.3606	20.0	102288.000	0.3701
1,1-Dichloroethane	2.00	29954.0000	0.4804	5.00	72551.0000	0.4577	20.0	299640.000	0.4696
Bromoform	2.00	4810.00000	0.09520	5.00	12236.0000	0.09650	20.0	64138.0000	0.1252
Chlorobenzene	2.00	45903.0000	0.9089	5.00	109221.000	0.8614	20.0	426884.000	0.8332
Chloromethane	2.00	13402.0000	0.2149	5.00	30109.0000	0.1899	20.0	124195.000	0.1946
1,1,1,2-Tetrachloroethane	2.00	12482.0000	0.2472	5.00	30916.0000	0.2438	20.0	125770.000	0.2455
1,1,1-Trichloroethane	2.00	23704.0000	0.3801	5.00	57194.0000	0.3608	20.0	237028.000	0.3714
1,1,2-Trichloroethane	2.00	9699.00000	0.1920	5.00	22733.0000	0.1793	20.0	97877.0000	0.1910
1,1-Dichloropropene	2.00	20986.0000	0.3365	5.00	52346.0000	0.3302	20.0	208980.000	0.3275
1,2,3-Trichlorobenzene	2.00	16331.0000	0.6078	5.00	32630.0000	0.4887	20.0	138219.000	0.5001
1,2,3-Trichloropropane	2.00	2968.00000	0.1105	5.00	6783.00000	0.1016	20.0	31280.0000	0.1132
1,2,4-Trichlorobenzene	2.00	18905.0000	0.7036	5.00	41543.0000	0.6222	20.0	165805.000	0.5999
1,2,4-Trimethylbenzene	2.00	59227.0000	2.204	5.00	144528.000	2.165	20.0	575862.000	2.084
1,2-Dibromo-3-Chloropropane	2.00	1550.00000	0.05770	5.00	3944.00000	0.05910	20.0	17332.0000	0.06270
1,2-Dibromoethane	2.00	9671.00000	0.1915	5.00	22144.0000	0.1746	20.0	95757.0000	0.1869
1,2-Dichlorobenzene	2.00	32053.0000	1.193	5.00	75699.0000	1.134	20.0	303239.000	1.097
1,2-Dichloroethane	2.00	18733.0000	0.3004	5.00	45094.0000	0.2845	20.0	185099.000	0.2901
1,3,5-Trimethylbenzene	2.00	56466.0000	2.102	5.00	140443.000	2.104	20.0	562463.000	2.035
1,3-Dichlorobenzene	2.00	35894.0000	1.336	5.00	85524.0000	1.281	20.0	341748.000	1.236
1,3-Dichloropropane	2.00	18085.0000	0.3581	5.00	42425.0000	0.3346	20.0	178352.000	0.3481
1,4-Dichlorobenzene	2.00	35412.0000	1.318	5.00	85448.0000	1.280	20.0	346999.000	1.255
2,2-Dichloropropane	2.00	22205.0000	0.3561	5.00	56213.0000	0.3546	20.0	229780.000	0.3601
2-Butanone	NA	NA	NA	5.00	8485.00000	0.05350	20.0	35647.0000	0.05590
2-Chloroethyl Vinyl Ether	2.00	6399.00000	0.1026	5.00	14723.0000	0.09290	20.0	68697.0000	0.1077
2-Chlorotoluene	2.00	62965.0000	2.344	5.00	143851.000	2.155	20.0	603060.000	2.182
2-Hexanone	NA	NA	NA	5.00	6048.00000	0.04770	20.0	28176.0000	0.05500
4-Chlorotoluene	2.00	52541.0000	1.956	5.00	129824.000	1.944	20.0	509030.000	1.842
4-Methyl-2-Pentanone	NA	NA	NA	5.00	7046.00000	0.04450	20.0	30276.0000	0.04740
Acetone	NA	NA	NA	5.00	6297.00000	0.03970	20.0	23084.0000	0.03620
Benzene	2.00	62540.0000	1.003	5.00	150926.000	0.9522	20.0	597694.000	0.9366
Bromobenzene	2.00	17607.0000	0.6553	5.00	43750.0000	0.6553	20.0	175298.000	0.6342
Bromochloromethane	2.00	7839.00000	0.1257	5.00	19821.0000	0.1250	20.0	82538.0000	0.1293
Bromodichloromethane	2.00	16109.0000	0.2583	5.00	40852.0000	0.2577	20.0	177125.000	0.2776
Bromomethane	2.00	10331.0000	0.1657	5.00	25623.0000	0.1616	20.0	118237.000	0.1853
Carbon Disulfide	2.00	46214.0000	0.7411	5.00	118288.000	0.7462	20.0	468663.000	0.7344
Carbon Tetrachloride	2.00	18144.0000	0.2910	5.00	45501.0000	0.2871	20.0	192836.000	0.3022

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Analyte	WG287926-08			WG287926-09			WG287926-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	582760.000	0.3772	100	1177268.00	0.3792	200	2140637.00	0.3543
1,2-Dichloropropane	50.0	372399.000	0.2411	100	691892.000	0.2228	200	1294988.00	0.2144
Chloroform	50.0	613903.000	0.3974	100	1189025.00	0.3830	200	2247118.00	0.3720
Ethylbenzene	50.0	516125.000	0.4057	100	915723.000	0.3598	NA	NA	NA
Toluene	50.0	1472928.00	1.158	100	2700033.00	1.061	200	4811412.00	0.9400
Vinyl Chloride	50.0	181662.000	0.1176	100	351216.000	0.1131	200	668523.000	0.1107
1,1,2,2-Tetrachloroethane	50.0	244718.000	0.3617	100	502337.000	0.3584	200	1000327.00	0.3559
1,1-Dichloroethane	50.0	717563.000	0.4645	100	1409741.00	0.4540	200	2581544.00	0.4273
Bromoform	50.0	175731.000	0.1381	100	362733.000	0.1425	200	743866.000	0.1453
Chlorobenzene	50.0	978037.000	0.7688	100	1744350.00	0.6853	NA	NA	NA
Chloromethane	50.0	278061.000	0.1800	100	555832.000	0.1790	NA	NA	NA
1,1,1,2-Tetrachloroethane	50.0	300051.000	0.2359	100	548595.000	0.2155	200	982983.000	0.1921
1,1,1-Trichloroethane	50.0	566443.000	0.3667	100	1068711.00	0.3442	200	2041948.00	0.3380
1,1,2-Trichloroethane	50.0	236661.000	0.1860	100	448245.000	0.1761	200	872687.000	0.1705
1,1-Dichloropropene	50.0	491397.000	0.3181	100	918563.000	0.2958	200	1713742.00	0.2837
1,2,3-Trichlorobenzene	50.0	330297.000	0.4882	100	699491.000	0.4991	200	1277196.00	0.4544
1,2,3-Trichloropropane	50.0	75170.0000	0.1111	100	151811.000	0.1083	200	305500.000	0.1087
1,2,4-Trichlorobenzene	50.0	393996.000	0.5823	100	834814.000	0.5957	200	1515997.00	0.5394
1,2,4-Trimethylbenzene	50.0	1349500.00	1.995	100	2586671.00	1.846	200	4568656.00	1.626
1,2-Dibromo-3-Chloropropane	50.0	45330.0000	0.06700	100	98038.0000	0.07000	200	198022.000	0.07050
1,2-Dibromoethane	50.0	232573.000	0.1828	100	442011.000	0.1737	200	867583.000	0.1695
1,2-Dichlorobenzene	50.0	710218.000	1.050	100	1376917.00	0.9825	200	2484030.00	0.8838
1,2-Dichloroethane	50.0	443033.000	0.2868	100	857898.000	0.2763	200	1599895.00	0.2648
1,3,5-Trimethylbenzene	50.0	1326647.00	1.961	100	2560421.00	1.827	200	4519715.00	1.608
1,3-Dichlorobenzene	50.0	808397.000	1.195	100	1553472.00	1.108	200	2758809.00	0.9816
1,3-Dichloropropane	50.0	426372.000	0.3352	100	803997.000	0.3159	200	1535726.00	0.3000
1,4-Dichlorobenzene	50.0	814281.000	1.204	100	1549289.00	1.106	200	2747099.00	0.9774
2,2-Dichloropropane	50.0	539607.000	0.3493	100	1022124.00	0.3292	200	1923984.00	0.3185
2-Butanone	50.0	88572.0000	0.05730	100	185406.000	0.05970	200	370073.000	0.06130
2-Chloroethyl Vinyl Ether	50.0	170886.000	0.1106	100	331346.000	0.1067	200	636553.000	0.1054
2-Chlorotoluene	50.0	1324985.00	1.958	100	2495700.00	1.781	NA	NA	NA
2-Hexanone	50.0	74235.0000	0.05840	100	154649.000	0.06080	200	316354.000	0.06180
4-Chlorotoluene	50.0	1272502.00	1.881	100	2410577.00	1.720	200	4182986.00	1.488
4-Methyl-2-Pentanone	50.0	79141.0000	0.05120	100	159279.000	0.05130	200	324301.000	0.05370
Acetone	50.0	61084.0000	0.03950	100	126768.000	0.04080	200	247252.000	0.04090
Benzene	50.0	1378748.00	0.8925	100	2538038.00	0.8174	200	4520914.00	0.7483
Bromobenzene	50.0	417680.000	0.6173	100	783594.000	0.5591	200	1452394.00	0.5168
Bromochloromethane	50.0	192474.000	0.1246	100	361972.000	0.1166	200	668704.000	0.1107
Bromodichloromethane	50.0	441530.000	0.2858	100	846513.000	0.2726	200	1647384.00	0.2727
Bromomethane	50.0	291804.000	0.1889	100	621257.000	0.2001	200	1142353.00	0.1891
Carbon Disulfide	50.0	1115455.00	0.7221	100	2272163.00	0.7318	200	3982270.00	0.6592
Carbon Tetrachloride	50.0	464010.000	0.3004	100	871020.000	0.2805	200	1731353.00	0.2866

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Analyte	WG287926-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1,2-Tetrachloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA
2-Butanone	300	516484.000	0.05620
2-Chloroethyl Vinyl Ether	300	875389.000	0.09530
2-Chlorotoluene	NA	NA	NA
2-Hexanone	300	439325.000	0.05840
4-Chlorotoluene	NA	NA	NA
4-Methyl-2-Pentanone	300	441249.000	0.04800
Acetone	300	326037.000	0.03550
Benzene	NA	NA	NA
Bromobenzene	NA	NA	NA
Bromochloromethane	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA

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Analyte	WG287926-02			WG287926-03			WG287926-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	6636.00000	0.2169
Dibromochloromethane	NA	NA	NA	0.400	1794.00000	0.1761	1.00	5054.00000	0.2032
Dibromomethane	NA	NA	NA	0.400	1258.00000	0.1011	1.00	3766.00000	0.1231
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	10651.00000	0.3482
Hexachlorobutadiene	NA	NA	NA	0.400	2518.00000	0.4689	1.00	4174.00000	0.3154
Isopropylbenzene	NA	NA	NA	0.400	14574.00000	1.431	1.00	37823.00000	1.521
Methylene Chloride	NA	NA	NA	0.400	7784.00000	0.6257	1.00	12007.00000	0.3925
Naphthalene	NA	NA	NA	0.400	8795.00000	1.638	1.00	19054.00000	1.440
Styrene	NA	NA	NA	0.400	9526.00000	0.9352	1.00	25093.00000	1.009
Tetrachloroethene	NA	NA	NA	0.400	2807.00000	0.2756	1.00	7210.00000	0.2899
Trichloroethene	NA	NA	NA	0.400	3459.00000	0.2780	1.00	8686.00000	0.2840
Trichlorofluoromethane	NA	NA	NA	0.400	3509.00000	0.2821	1.00	15220.00000	0.4976
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	3577.00000	0.2875	1.00	8957.00000	0.2928
cis-1,3-Dichloropropene	NA	NA	NA	0.400	4467.00000	0.3591	1.00	11368.00000	0.3716
m-,p-Xylene	NA	NA	NA	0.800	12417.00000	0.6095	2.00	33144.00000	0.6664
n-Butylbenzene	NA	NA	NA	0.400	11370.00000	2.117	1.00	28316.00000	2.140
n-Propylbenzene	NA	NA	NA	0.400	18487.00000	3.443	1.00	47842.00000	3.615
o-Xylene	NA	NA	NA	0.400	6093.00000	0.5982	1.00	16486.00000	0.6629
p-Isopropyltoluene	NA	NA	NA	0.400	12074.00000	2.249	1.00	31522.00000	2.382
sec-Butylbenzene	NA	NA	NA	0.400	13916.00000	2.592	1.00	35368.00000	2.672
tert-Butylbenzene	NA	NA	NA	0.400	2172.00000	0.4045	1.00	6366.00000	0.4810
trans-1,2-Dichloroethene	NA	NA	NA	0.400	5117.00000	0.4113	1.00	13825.00000	0.4520
trans-1,3-Dichloropropene	NA	NA	NA	0.400	3665.00000	0.3598	1.00	9706.00000	0.3903

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Analyte	WG287926-05			WG287926-06			WG287926-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	2.00	12400.0000	0.1989	5.00	30989.0000	0.1955	20.0	130536.000	0.2046
Dibromochloromethane	2.00	9756.00000	0.1932	5.00	23877.0000	0.1883	20.0	109902.000	0.2145
Dibromomethane	2.00	7125.00000	0.1143	5.00	16666.0000	0.1051	20.0	69952.0000	0.1096
Dichlorodifluoromethane	2.00	19568.0000	0.3138	5.00	49077.0000	0.3096	20.0	202893.000	0.3180
Hexachlorobutadiene	2.00	7630.00000	0.2840	5.00	18131.0000	0.2716	20.0	68798.0000	0.2489
Isopropylbenzene	2.00	69428.0000	1.375	5.00	167783.000	1.323	20.0	670307.000	1.308
Methylene Chloride	2.00	19983.0000	0.3205	5.00	39608.0000	0.2499	20.0	148426.000	0.2326
Naphthalene	2.00	35872.0000	1.335	5.00	75359.0000	1.129	20.0	323472.000	1.170
Styrene	2.00	46972.0000	0.9301	5.00	115707.000	0.9126	20.0	475417.000	0.9279
Tetrachloroethene	2.00	13547.0000	0.2682	5.00	32309.0000	0.2548	20.0	131610.000	0.2569
Trichloroethene	2.00	15284.0000	0.2451	5.00	37026.0000	0.2336	20.0	153011.000	0.2398
Trichlorofluoromethane	2.00	26549.0000	0.4257	5.00	64066.0000	0.4042	20.0	265953.000	0.4168
Vinyl Acetate	NA	NA	NA	5.00	51219.0000	0.3231	20.0	206645.000	0.3238
cis-1,2-Dichloroethene	2.00	16142.0000	0.2589	5.00	40304.0000	0.2543	20.0	162236.000	0.2542
cis-1,3-Dichloropropene	2.00	21847.0000	0.3503	5.00	53879.0000	0.3399	20.0	229348.000	0.3594
m-,p-Xylene	4.00	60327.0000	0.5973	10.0	145452.000	0.5736	40.0	564638.000	0.5510
n-Butylbenzene	2.00	50611.0000	1.884	5.00	124335.000	1.862	20.0	492902.000	1.783
n-Propylbenzene	2.00	86374.0000	3.215	5.00	211431.000	3.167	20.0	843850.000	3.053
o-Xylene	2.00	29418.0000	0.5825	5.00	71089.0000	0.5607	20.0	286742.000	0.5597
p-Isopropyltoluene	2.00	55426.0000	2.063	5.00	138076.000	2.068	20.0	557059.000	2.015
sec-Butylbenzene	2.00	65330.0000	2.432	5.00	160960.000	2.411	20.0	638961.000	2.312
tert-Butylbenzene	2.00	12595.0000	0.4688	5.00	30064.0000	0.4503	20.0	122892.000	0.4446
trans-1,2-Dichloroethene	2.00	23285.0000	0.3734	5.00	56397.0000	0.3558	20.0	235344.000	0.3688
trans-1,3-Dichloropropene	2.00	18366.0000	0.3637	5.00	45296.0000	0.3572	20.0	196943.000	0.3844

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Analyte	WG287926-08			WG287926-09			WG287926-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	50.0	300527.000	0.1945	100	601458.000	0.1937	200	1085869.00	0.1797
Dibromochloromethane	50.0	283725.000	0.2230	100	559851.000	0.2199	200	1113542.00	0.2176
Dibromomethane	50.0	167673.000	0.1085	100	320530.000	0.1032	200	612883.000	0.1014
Dichlorodifluoromethane	50.0	455700.000	0.2950	100	889647.000	0.2865	200	1625402.00	0.2690
Hexachlorobutadiene	50.0	160718.000	0.2375	100	356853.000	0.2546	200	685301.000	0.2438
Isopropylbenzene	50.0	1545261.00	1.215	100	2854839.00	1.122	200	5097817.00	0.9960
Methylene Chloride	50.0	337921.000	0.2187	100	680085.000	0.2190	200	1208371.00	0.2000
Naphthalene	50.0	804572.000	1.189	100	1624833.00	1.159	200	2958957.00	1.053
Styrene	50.0	1103191.00	0.8672	100	2018779.00	0.7931	200	3529657.00	0.6896
Tetrachloroethene	50.0	308284.000	0.2423	100	572016.000	0.2247	200	1053724.00	0.2059
Trichloroethene	50.0	361235.000	0.2338	100	673188.000	0.2168	200	1231722.00	0.2039
Trichlorofluoromethane	50.0	643065.000	0.4163	100	1327258.00	0.4275	200	2506131.00	0.4148
Vinyl Acetate	50.0	349126.000	0.2260	100	563156.000	0.1814	200	1390103.00	0.2301
cis-1,2-Dichloroethene	50.0	382476.000	0.2476	100	730912.000	0.2354	200	1348118.00	0.2231
cis-1,3-Dichloropropene	50.0	547990.000	0.3547	100	1023247.00	0.3296	200	1925832.00	0.3188
m-,p-Xylene	100	1255635.00	0.4935	200	2212161.00	0.4345	NA	NA	NA
n-Butylbenzene	50.0	1170164.00	1.730	100	2338170.00	1.668	200	4211369.00	1.498
n-Propylbenzene	50.0	1954373.00	2.889	100	3647737.00	2.603	200	6388832.00	2.273
o-Xylene	50.0	655489.000	0.5153	100	1202195.00	0.4723	200	2096476.00	0.4096
p-Isopropyltoluene	50.0	1301297.00	1.923	100	2544611.00	1.816	200	4537720.00	1.615
sec-Butylbenzene	50.0	1475106.00	2.180	100	2870217.00	2.048	200	5138835.00	1.828
tert-Butylbenzene	50.0	284050.000	0.4198	100	558137.000	0.3982	200	1016354.00	0.3616
trans-1,2-Dichloroethene	50.0	552444.000	0.3576	100	1048735.00	0.3378	200	1939315.00	0.3210
trans-1,3-Dichloropropene	50.0	476504.000	0.3746	100	902996.000	0.3548	200	1746658.00	0.3413

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Column ID: F

Analyte	WG287926-11		
	CONC	RESP	RF
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Dibromomethane	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA
Isopropylbenzene	NA	NA	NA
Methylene Chloride	NA	NA	NA
Naphthalene	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA
Vinyl Acetate	300	2466359.00	0.2685
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
n-Butylbenzene	NA	NA	NA
n-Propylbenzene	NA	NA	NA
o-Xylene	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA
sec-Butylbenzene	NA	NA	NA
tert-Butylbenzene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA

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Login Number: L08120101 Run Date: 11/25/2008 Sample ID: WG289038-12
Instrument ID: HPMS11 Run Time: 22:44 Method: 8260B
File ID: 11M55554 Analyst: WTD QC Key: STD
ICal Workgroup: WG289038 Cal ID: HPMS11 - 25-NOV-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	21.8	ug/L	0.410	9.10	30	
1,1-Dichloroethene	CCC	20.0	20.0	ug/L	0.365	0.200	30	
1,2-Dichloropropane	CCC	20.0	20.6	ug/L	0.235	3.00	30	
Ethylbenzene	CCC	20.0	20.8	ug/L	0.436	4.00	30	
Toluene	CCC	20.0	20.0	ug/L	1.10	0.200	30	
Vinyl Chloride	CCC	20.0	21.8	ug/L	0.167	9.10	30	
Bromoform	SPCC	20.0	18.8	ug/L	0.127	5.90	30	
Chlorobenzene	SPCC	20.0	20.4	ug/L	0.792	1.90	30	
Chloromethane	SPCC	20.0	24.3	ug/L	0.215	21.6	30	
1,1-Dichloroethane	SPCC	20.0	20.3	ug/L	0.429	1.40	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.8	ug/L	0.353	4.20	30	
Acetone		20.0	26.4	ug/L	0.0626	31.9	30	*
Benzene		20.0	20.3	ug/L	0.824	1.60	30	
Bromobenzene		20.0	20.0	ug/L	0.624	0.100	30	
Bromochloromethane		20.0	21.6	ug/L	0.143	8.10	30	
Bromodichloromethane		20.0	21.9	ug/L	0.290	9.60	30	
Bromomethane		20.0	36.5	ug/L	0.172	82.5	30	*
2-Butanone		20.0	22.6	ug/L	0.0750	13.1	30	
n-Butylbenzene		20.0	19.8	ug/L	1.75	0.900	30	
sec-Butylbenzene		20.0	19.3	ug/L	2.38	3.50	30	
tert-Butylbenzene		20.0	19.3	ug/L	0.421	3.40	30	
Carbon Disulfide		20.0	17.7	ug/L	0.535	11.4	30	
Carbon Tetrachloride		20.0	20.7	ug/L	0.280	3.70	30	
Dibromochloromethane		20.0	21.5	ug/L	0.244	7.70	30	
Chloroethane		20.0	25.9	ug/L	0.172	29.4	30	
2-Chloroethyl Vinyl Ether		20.0	20.6	ug/L	0.105	3.20	30	
2-Chlorotoluene		20.0	19.7	ug/L	1.58	1.50	30	
4-Chlorotoluene		20.0	19.8	ug/L	1.65	1.10	30	
1,2-Dibromo-3-Chloropropane		20.0	19.7	ug/L	0.0666	1.40	30	
1,2-Dibromoethane		20.0	20.6	ug/L	0.194	2.90	30	
Dibromomethane		20.0	21.2	ug/L	0.106	5.80	30	
1,2-Dichlorobenzene		20.0	20.4	ug/L	1.14	2.10	30	
1,3-Dichlorobenzene		20.0	20.1	ug/L	1.22	0.500	30	
1,4-Dichlorobenzene		20.0	19.6	ug/L	1.24	1.90	30	
Dichlorodifluoromethane		20.0	28.5	ug/L	0.332	42.7	30	*
1,2-Dichloroethane		20.0	20.2	ug/L	0.325	1.20	30	
cis-1,2-Dichloroethene		20.0	20.7	ug/L	0.236	3.40	30	
trans-1,2-Dichloroethene		20.0	20.1	ug/L	0.212	0.600	30	
1,3-Dichloropropane		20.0	21.1	ug/L	0.335	5.40	30	
2,2-Dichloropropane		20.0	16.9	ug/L	0.195	15.3	30	
cis-1,3-Dichloropropene		20.0	20.4	ug/L	0.305	2.00	30	
trans-1,3-Dichloropropene		20.0	18.2	ug/L	0.293	9.00	30	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1273810
Report generated 12/11/2008 15:21



Login Number: L08120101 Run Date: 11/25/2008 Sample ID: WG289038-12
Instrument ID: HPMS11 Run Time: 22:44 Method: 8260B
File ID: 11M55554 Analyst: WTD QC Key: STD
ICal Workgroup: WG289038 Cal ID: HPMS11 - 25-NOV-08

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	19.9	ug/L	0.286	0.300	30	
2-Hexanone	20.0	22.0	ug/L	0.139	9.80	30	
Hexachlorobutadiene	20.0	20.3	ug/L	0.262	1.40	30	
Isopropylbenzene	20.0	18.6	ug/L	1.21	6.80	30	
p-Isopropyltoluene	20.0	19.2	ug/L	2.09	4.00	30	
4-Methyl-2-Pentanone	20.0	20.3	ug/L	0.0665	1.30	30	
Methylene Chloride	20.0	19.5	ug/L	0.213	2.70	30	
Naphthalene	20.0	20.6	ug/L	1.57	3.00	30	
n-Propylbenzene	20.0	19.3	ug/L	2.52	3.40	30	
Styrene	20.0	21.6	ug/L	0.928	7.80	30	
1,1,1,2-Tetrachloroethane	20.0	21.5	ug/L	0.275	7.30	30	
Tetrachloroethene	20.0	20.1	ug/L	0.231	0.500	30	
1,2,3-Trichlorobenzene	20.0	20.6	ug/L	0.674	2.90	30	
1,2,4-Trichlorobenzene	20.0	20.4	ug/L	0.764	1.90	30	
1,1,1-Trichloroethane	20.0	20.2	ug/L	0.350	1.00	30	
1,1,2-Trichloroethane	20.0	21.7	ug/L	0.193	8.70	30	
Trichloroethene	20.0	19.1	ug/L	0.254	4.40	30	
Trichlorofluoromethane	20.0	22.8	ug/L	0.431	14.1	30	
1,2,3-Trichloropropane	20.0	20.1	ug/L	0.128	0.400	30	
1,2,4-Trimethylbenzene	20.0	20.1	ug/L	2.06	0.600	30	
1,3,5-Trimethylbenzene	20.0	19.8	ug/L	2.00	0.800	30	
Vinyl Acetate	20.0	27.6	ug/L	0.134	38.1	40	
o-Xylene	20.0	21.1	ug/L	0.533	5.30	30	
m-,p-Xylene	40.0	42.2	ug/L	0.541	5.50	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08120101 Run Date: 11/14/2008 Sample ID: WG287926-12
Instrument ID: HPMS8 Run Time: 20:28 Method: 8260B
File ID: 8M349690 Analyst: CAA QC Key: STD
ICal Workgroup: WG287926 Cal ID: HPMS8 - 14-NOV-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	21.1	ug/L	0.436	5.60	30	
1,1-Dichloroethene	CCC	20.0	20.2	ug/L	0.385	0.800	30	
1,2-Dichloropropane	CCC	20.0	19.7	ug/L	0.246	1.30	30	
Ethylbenzene	CCC	20.0	19.9	ug/L	0.455	0.300	30	
Toluene	CCC	20.0	20.3	ug/L	1.26	1.70	30	
Vinyl Chloride	CCC	25.0	25.9	ug/L	0.162	3.70	30	
Bromoform	SPCC	20.0	18.7	ug/L	0.124	6.40	30	
Chlorobenzene	SPCC	20.0	19.5	ug/L	0.851	2.50	30	
Chloromethane	SPCC	25.0	27.5	ug/L	0.252	10.2	30	
1,1-Dichloroethane	SPCC	20.0	20.1	ug/L	0.477	0.500	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	19.0	ug/L	0.360	5.10	30	
Acetone		20.0	26.5	ug/L	0.0513	32.3	30	*
Benzene		20.0	19.9	ug/L	0.942	0.700	30	
Bromobenzene		20.0	20.5	ug/L	0.645	2.50	30	
Bromochloromethane		20.0	21.3	ug/L	0.131	6.60	30	
Bromodichloromethane		20.0	21.7	ug/L	0.294	8.70	30	
Bromomethane		25.0	26.9	ug/L	0.245	7.70	30	
2-Butanone		20.0	21.7	ug/L	0.0622	8.50	30	
n-Butylbenzene		20.0	19.6	ug/L	1.80	1.80	30	
sec-Butylbenzene		20.0	20.5	ug/L	2.37	2.70	30	
tert-Butylbenzene		20.0	21.4	ug/L	0.459	7.10	30	
Carbon Disulfide		20.0	24.7	ug/L	0.916	23.7	30	
Carbon Tetrachloride		20.0	20.8	ug/L	0.308	4.20	30	
Dibromochloromethane		20.0	21.5	ug/L	0.220	7.60	30	
Chloroethane		25.0	24.3	ug/L	0.240	2.90	30	
2-Chloroethyl Vinyl Ether		20.0	21.1	ug/L	0.108	5.60	30	
2-Chlorotoluene		20.0	20.0	ug/L	2.20	0.100	30	
4-Chlorotoluene		20.0	20.6	ug/L	1.95	3.10	30	
1,2-Dibromo-3-Chloropropane		20.0	19.2	ug/L	0.0619	3.90	30	
1,2-Dibromoethane		20.0	20.7	ug/L	0.189	3.50	30	
Dibromomethane		20.0	20.6	ug/L	0.112	2.90	30	
1,2-Dichlorobenzene		20.0	20.3	ug/L	1.13	1.60	30	
1,3-Dichlorobenzene		20.0	20.3	ug/L	1.26	1.30	30	
1,4-Dichlorobenzene		20.0	19.9	ug/L	1.26	0.500	30	
Dichlorodifluoromethane		25.0	26.7	ug/L	0.408	6.70	30	
1,2-Dichloroethane		20.0	20.4	ug/L	0.298	2.20	30	
cis-1,2-Dichloroethene		20.0	20.3	ug/L	0.261	1.70	30	
trans-1,2-Dichloroethene		20.0	19.3	ug/L	0.359	3.60	30	
1,3-Dichloropropane		20.0	20.4	ug/L	0.352	1.90	30	
2,2-Dichloropropane		20.0	19.5	ug/L	0.347	2.50	30	
cis-1,3-Dichloropropene		20.0	19.9	ug/L	0.347	0.400	30	
trans-1,3-Dichloropropene		20.0	18.6	ug/L	0.341	6.80	30	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 1273810
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Login Number: L08120101 Run Date: 11/14/2008 Sample ID: WG287926-12
Instrument ID: HPMS8 Run Time: 20:28 Method: 8260B
File ID: 8M349690 Analyst: CAA QC Key: STD
ICal Workgroup: WG287926 Cal ID: HPMS8 - 14-NOV-08

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	19.8	ug/L	0.323	0.800	30	
2-Hexanone	20.0	19.9	ug/L	0.0568	0.300	30	
Hexachlorobutadiene	20.0	21.1	ug/L	0.264	5.70	30	
Isopropylbenzene	20.0	19.2	ug/L	1.23	4.10	30	
p-Isopropyltoluene	20.0	19.9	ug/L	2.00	0.700	30	
4-Methyl-2-Pentanone	20.0	19.8	ug/L	0.0489	1.00	30	
Methylene Chloride	20.0	20.2	ug/L	0.235	0.800	30	
Naphthalene	20.0	19.6	ug/L	1.20	2.00	30	
n-Propylbenzene	20.0	20.7	ug/L	3.14	3.70	30	
Styrene	20.0	21.9	ug/L	0.967	9.50	30	
1,1,1,2-Tetrachloroethane	20.0	21.4	ug/L	0.251	6.80	30	
Tetrachloroethene	20.0	20.2	ug/L	0.255	1.10	30	
1,2,3-Trichlorobenzene	20.0	19.3	ug/L	0.498	3.70	30	
1,2,4-Trichlorobenzene	20.0	19.8	ug/L	0.613	0.800	30	
1,1,1-Trichloroethane	20.0	20.4	ug/L	0.381	1.90	30	
1,1,2-Trichloroethane	20.0	20.4	ug/L	0.193	2.00	30	
Trichloroethene	20.0	19.5	ug/L	0.236	2.70	30	
Trichlorofluoromethane	25.0	25.1	ug/L	0.514	0.200	30	
1,2,3-Trichloropropane	20.0	20.1	ug/L	0.110	0.300	30	
1,2,4-Trimethylbenzene	20.0	20.6	ug/L	2.16	3.00	30	
1,3,5-Trimethylbenzene	20.0	20.1	ug/L	2.05	0.600	30	
Vinyl Acetate	20.0	14.3	ug/L	0.219	28.3	40	
o-Xylene	20.0	21.6	ug/L	0.588	7.80	30	
m-,p-Xylene	40.0	41.6	ug/L	0.583	3.90	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289675-02
Instrument ID: HPMS11 Run Time: 08:56 Method: 8260B
File ID: 11M55825 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG289676 Cal ID: HPMS11 - 25-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	54.7	ug/L	0.411	9.42	20	
1,1-Dichloroethene	CCC	50.0	58.5	ug/L	0.429	17.1	20	
1,2-Dichloropropane	CCC	50.0	50.4	ug/L	0.230	0.873	20	
Ethylbenzene	CCC	50.0	50.1	ug/L	0.420	0.259	20	
Toluene	CCC	50.0	50.1	ug/L	1.10	0.135	20	
Vinyl Chloride	CCC	50.0	54.1	ug/L	0.158	8.28	20	
Bromoform	SPCC	50.0	44.6	ug/L	0.121	10.8	40	
Chlorobenzene	SPCC	50.0	49.4	ug/L	0.768	1.18	40	
Chloromethane	SPCC	50.0	40.2	ug/L	0.147	19.7	40	
1,1-Dichloroethane	SPCC	50.0	55.6	ug/L	0.470	11.1	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	48.3	ug/L	0.327	3.47	40	
Acetone		50.0	51.9	ug/L	0.0493	3.88	40	
Benzene		50.0	50.8	ug/L	0.824	1.59	40	
Bromobenzene		50.0	48.6	ug/L	0.605	2.90	40	
Bromochloromethane		50.0	50.1	ug/L	0.132	0.138	40	
Bromodichloromethane		50.0	53.1	ug/L	0.281	6.22	40	
Bromomethane		50.0	41.4	ug/L	0.0778	17.2	40	
2-Butanone		50.0	46.7	ug/L	0.0620	6.50	40	
n-Butylbenzene		50.0	52.3	ug/L	1.85	4.62	40	
sec-Butylbenzene		50.0	50.8	ug/L	2.50	1.53	40	
tert-Butylbenzene		50.0	50.1	ug/L	0.436	0.180	40	
Carbon Disulfide		50.0	50.3	ug/L	0.597	0.608	40	
Carbon Tetrachloride		50.0	61.8	ug/L	0.333	23.6	40	
Dibromochloromethane		50.0	51.8	ug/L	0.235	3.58	40	
Chloroethane		50.0	56.0	ug/L	0.149	12.0	40	
2-Chloroethyl Vinyl Ether		50.0	39.1	ug/L	0.0796	21.8	40	
2-Chlorotoluene		50.0	52.3	ug/L	1.68	4.62	40	
4-Chlorotoluene		50.0	52.5	ug/L	1.75	4.98	40	
1,2-Dibromo-3-Chloropropane		50.0	43.6	ug/L	0.0590	12.7	40	
1,2-Dibromoethane		50.0	44.8	ug/L	0.169	10.4	40	
Dibromomethane		50.0	46.8	ug/L	0.0936	6.38	40	
1,2-Dichlorobenzene		50.0	47.1	ug/L	1.05	5.80	40	
1,3-Dichlorobenzene		50.0	49.7	ug/L	1.20	0.694	40	
1,4-Dichlorobenzene		50.0	48.0	ug/L	1.21	3.94	40	
Dichlorodifluoromethane		50.0	57.8	ug/L	0.269	15.6	40	
1,2-Dichloroethane		50.0	49.8	ug/L	0.320	0.335	40	
cis-1,2-Dichloroethene		50.0	51.7	ug/L	0.235	3.34	40	
trans-1,2-Dichloroethene		50.0	54.9	ug/L	0.231	9.89	40	
1,3-Dichloropropane		50.0	46.1	ug/L	0.293	7.73	40	
2,2-Dichloropropane		50.0	48.5	ug/L	0.254	3.10	40	
cis-1,3-Dichloropropene		50.0	52.2	ug/L	0.312	4.37	40	
trans-1,3-Dichloropropene		50.0	51.6	ug/L	0.333	3.27	40	

CCV - Modified 03/05/2008
PDF File ID: 1273812
Report generated 12/11/2008 15:21



Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289675-02
Instrument ID: HPMS11 Run Time: 08:56 Method: 8260B
File ID: 11M55825 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG289676 Cal ID: HPMS11 - 25-NOV-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	53.8	ug/L	0.308	7.61	40	
2-Hexanone	50.0	44.8	ug/L	0.114	10.3	40	
Hexachlorobutadiene	50.0	47.3	ug/L	0.244	5.49	40	
Isopropylbenzene	50.0	49.9	ug/L	1.30	0.199	40	
p-Isopropyltoluene	50.0	51.0	ug/L	2.22	2.04	40	
4-Methyl-2-Pentanone	50.0	39.8	ug/L	0.0523	20.4	40	
Methylene Chloride	50.0	51.3	ug/L	0.219	2.57	40	
Naphthalene	50.0	40.9	ug/L	1.24	18.3	40	
n-Propylbenzene	50.0	53.6	ug/L	2.80	7.28	40	
Styrene	50.0	50.1	ug/L	0.862	0.147	40	
1,1,1,2-Tetrachloroethane	50.0	52.4	ug/L	0.268	4.87	40	
Tetrachloroethene	50.0	48.6	ug/L	0.224	2.87	40	
1,2,3-Trichlorobenzene	50.0	41.6	ug/L	0.545	16.8	40	
1,2,4-Trichlorobenzene	50.0	44.1	ug/L	0.661	11.8	40	
1,1,1-Trichloroethane	50.0	55.3	ug/L	0.383	10.7	40	
1,1,2-Trichloroethane	50.0	46.2	ug/L	0.164	7.64	40	
Trichloroethene	50.0	48.3	ug/L	0.251	3.37	40	
Trichlorofluoromethane	50.0	59.8	ug/L	0.452	19.6	40	
1,2,3-Trichloropropane	50.0	44.9	ug/L	0.115	10.2	40	
1,2,4-Trimethylbenzene	50.0	51.7	ug/L	2.11	3.35	40	
1,3,5-Trimethylbenzene	50.0	52.7	ug/L	2.12	5.40	40	
Vinyl Acetate	50.0	40.4	ug/L	0.102	19.1	40	
o-Xylene	50.0	49.9	ug/L	0.505	0.221	40	
m-,p-Xylene	100	101	ug/L	0.516	0.563	40	
1,2-Dichloroethene	100	107	ug/L	0.233	6.61	40	
Xylenes	150	150	ug/L	0.510	0.302	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08120101 Run Date: 12/08/2008 Sample ID: WG289816-02
Instrument ID: HPMS8 Run Time: 11:05 Method: 8260B
File ID: 8M350334 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG289819 Cal ID: HPMS8 - 14-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	54.4	ug/L	0.449	8.83	20	
1,1-Dichloroethene	CCC	50.0	54.7	ug/L	0.418	9.48	20	
1,2-Dichloropropane	CCC	50.0	50.4	ug/L	0.251	0.810	20	
Ethylbenzene	CCC	50.0	46.8	ug/L	0.427	6.33	20	
Toluene	CCC	50.0	47.4	ug/L	1.18	5.26	20	
Vinyl Chloride	CCC	50.0	57.0	ug/L	0.143	14.0	20	
Bromoform	SPCC	50.0	57.8	ug/L	0.161	15.6	40	
Chlorobenzene	SPCC	50.0	45.9	ug/L	0.801	8.21	40	
Chloromethane	SPCC	50.0	53.4	ug/L	0.193	6.89	40	
1,1-Dichloroethane	SPCC	50.0	52.5	ug/L	0.498	4.92	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.3	ug/L	0.359	5.37	40	
Acetone		50.0	51.9	ug/L	0.0402	3.74	40	
Benzene		50.0	49.1	ug/L	0.931	1.85	40	
Bromobenzene		50.0	46.3	ug/L	0.583	7.44	40	
Bromochloromethane		50.0	57.9	ug/L	0.143	15.9	40	
Bromodichloromethane		50.0	59.8	ug/L	0.323	19.5	40	
Bromomethane		50.0	53.0	ug/L	0.193	5.91	40	
2-Butanone		50.0	50.8	ug/L	0.0583	1.63	40	
n-Butylbenzene		50.0	48.7	ug/L	1.79	2.60	40	
sec-Butylbenzene		50.0	46.9	ug/L	2.16	6.29	40	
tert-Butylbenzene		50.0	48.5	ug/L	0.416	3.06	40	
Carbon Disulfide		50.0	47.8	ug/L	0.708	4.36	40	
Carbon Tetrachloride		50.0	66.2	ug/L	0.392	32.4	40	
Dibromochloromethane		50.0	62.8	ug/L	0.257	25.6	40	
Chloroethane		50.0	48.6	ug/L	0.192	2.70	40	
2-Chloroethyl Vinyl Ether		50.0	49.7	ug/L	0.102	0.615	40	
2-Chlorotoluene		50.0	42.4	ug/L	1.87	15.2	40	
4-Chlorotoluene		50.0	48.2	ug/L	1.82	3.69	40	
1,2-Dibromo-3-Chloropropane		50.0	53.1	ug/L	0.0685	6.22	40	
1,2-Dibromoethane		50.0	50.5	ug/L	0.185	1.04	40	
Dibromomethane		50.0	54.4	ug/L	0.118	8.71	40	
1,2-Dichlorobenzene		50.0	47.5	ug/L	1.05	4.95	40	
1,3-Dichlorobenzene		50.0	47.2	ug/L	1.18	5.56	40	
1,4-Dichlorobenzene		50.0	47.3	ug/L	1.20	5.31	40	
Dichlorodifluoromethane		50.0	26.5	ug/L	0.162	47.1	40	*
1,2-Dichloroethane		50.0	56.1	ug/L	0.327	12.2	40	
cis-1,2-Dichloroethene		50.0	52.3	ug/L	0.268	4.51	40	
trans-1,2-Dichloroethene		50.0	52.4	ug/L	0.390	4.81	40	
1,3-Dichloropropane		50.0	47.4	ug/L	0.327	5.30	40	
2,2-Dichloropropane		50.0	59.1	ug/L	0.420	18.2	40	
cis-1,3-Dichloropropene		50.0	53.9	ug/L	0.375	7.84	40	
trans-1,3-Dichloropropene		50.0	52.9	ug/L	0.387	5.83	40	

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Login Number: L08120101 Run Date: 12/08/2008 Sample ID: WG289816-02
Instrument ID: HPMS8 Run Time: 11:05 Method: 8260B
File ID: 8M350334 Analyst: CAA QC Key: STD
Workgroup (AAB#): WG289819 Cal ID: HPMS8 - 14-NOV-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	54.1	ug/L	0.352	8.12	40	
2-Hexanone	50.0	48.2	ug/L	0.0550	3.52	40	
Hexachlorobutadiene	50.0	53.7	ug/L	0.265	7.45	40	
Isopropylbenzene	50.0	50.0	ug/L	1.29	0.0712	40	
p-Isopropyltoluene	50.0	48.0	ug/L	1.94	3.98	40	
4-Methyl-2-Pentanone	50.0	50.4	ug/L	0.0498	0.863	40	
Methylene Chloride	50.0	53.1	ug/L	0.239	6.23	40	
Naphthalene	50.0	47.9	ug/L	1.15	4.14	40	
n-Propylbenzene	50.0	45.3	ug/L	2.75	9.42	40	
Styrene	50.0	49.2	ug/L	0.868	1.69	40	
1,1,1,2-Tetrachloroethane	50.0	57.1	ug/L	0.269	14.1	40	
Tetrachloroethene	50.0	50.3	ug/L	0.254	0.679	40	
1,2,3-Trichlorobenzene	50.0	49.6	ug/L	0.504	0.790	40	
1,2,4-Trichlorobenzene	50.0	50.4	ug/L	0.612	0.861	40	
1,1,1-Trichloroethane	50.0	58.4	ug/L	0.437	16.9	40	
1,1,2-Trichloroethane	50.0	48.7	ug/L	0.184	2.67	40	
Trichloroethene	50.0	52.3	ug/L	0.253	4.52	40	
Trichlorofluoromethane	50.0	54.1	ug/L	0.444	8.17	40	
1,2,3-Trichloropropane	50.0	50.8	ug/L	0.111	1.52	40	
1,2,4-Trimethylbenzene	50.0	46.7	ug/L	1.96	6.66	40	
1,3,5-Trimethylbenzene	50.0	46.5	ug/L	1.89	7.00	40	
Vinyl Acetate	50.0	36.4	ug/L	0.151	27.3	40	
o-Xylene	50.0	48.3	ug/L	0.527	3.40	40	
m-,p-Xylene	100	91.3	ug/L	0.512	8.66	40	
1,2-Dichloroethene	100	105	ug/L	0.329	4.66	40	
Xylenes	150	140	ug/L	0.519	6.91	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08120101 Run Date: 12/08/2008 Sample ID: WG289858-02
Instrument ID: HPMS11 Run Time: 12:01 Method: 8260B
File ID: 11M55856 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG289859 Cal ID: HPMS11 - 25-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	51.5	ug/L	0.387	3.09	20	
1,1-Dichloroethene	CCC	50.0	55.7	ug/L	0.408	11.4	20	
1,2-Dichloropropane	CCC	50.0	48.6	ug/L	0.222	2.80	20	
Ethylbenzene	CCC	50.0	48.1	ug/L	0.404	3.72	20	
Toluene	CCC	50.0	47.5	ug/L	1.04	4.90	20	
Vinyl Chloride	CCC	50.0	51.0	ug/L	0.149	2.04	20	
Bromoform	SPCC	50.0	43.2	ug/L	0.117	13.5	40	
Chlorobenzene	SPCC	50.0	46.9	ug/L	0.729	6.26	40	
Chloromethane	SPCC	50.0	41.3	ug/L	0.151	17.4	40	
1,1-Dichloroethane	SPCC	50.0	52.9	ug/L	0.447	5.71	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.9	ug/L	0.324	4.21	40	
Acetone		50.0	56.1	ug/L	0.0533	12.2	40	
Benzene		50.0	48.9	ug/L	0.794	2.15	40	
Bromobenzene		50.0	49.1	ug/L	0.612	1.88	40	
Bromochloromethane		50.0	49.5	ug/L	0.131	0.939	40	
Bromodichloromethane		50.0	51.1	ug/L	0.271	2.23	40	
Bromomethane		50.0	49.0	ug/L	0.0920	2.10	40	
2-Butanone		50.0	47.4	ug/L	0.0628	5.28	40	
n-Butylbenzene		50.0	50.5	ug/L	1.78	0.922	40	
sec-Butylbenzene		50.0	50.2	ug/L	2.48	0.478	40	
tert-Butylbenzene		50.0	49.6	ug/L	0.432	0.856	40	
Carbon Disulfide		50.0	50.0	ug/L	0.593	0.0472	40	
Carbon Tetrachloride		50.0	59.9	ug/L	0.323	19.7	40	
Dibromochloromethane		50.0	50.7	ug/L	0.230	1.49	40	
Chloroethane		50.0	54.4	ug/L	0.145	8.87	40	
2-Chloroethyl Vinyl Ether		50.0	45.6	ug/L	0.0929	8.76	40	
2-Chlorotoluene		50.0	50.3	ug/L	1.62	0.653	40	
4-Chlorotoluene		50.0	51.4	ug/L	1.72	2.88	40	
1,2-Dibromo-3-Chloropropane		50.0	42.8	ug/L	0.0579	14.3	40	
1,2-Dibromoethane		50.0	43.5	ug/L	0.165	12.9	40	
Dibromomethane		50.0	46.2	ug/L	0.0923	7.68	40	
1,2-Dichlorobenzene		50.0	45.8	ug/L	1.02	8.48	40	
1,3-Dichlorobenzene		50.0	48.2	ug/L	1.17	3.56	40	
1,4-Dichlorobenzene		50.0	46.6	ug/L	1.17	6.71	40	
Dichlorodifluoromethane		50.0	57.1	ug/L	0.266	14.2	40	
1,2-Dichloroethane		50.0	46.9	ug/L	0.301	6.21	40	
cis-1,2-Dichloroethene		50.0	49.1	ug/L	0.224	1.83	40	
trans-1,2-Dichloroethene		50.0	51.9	ug/L	0.218	3.87	40	
1,3-Dichloropropane		50.0	43.9	ug/L	0.279	12.2	40	
2,2-Dichloropropane		50.0	62.3	ug/L	0.331	24.6	40	
cis-1,3-Dichloropropene		50.0	51.6	ug/L	0.309	3.21	40	
trans-1,3-Dichloropropene		50.0	50.5	ug/L	0.326	1.05	40	

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Login Number: L08120101	Run Date: 12/08/2008	Sample ID: WG289858-02
Instrument ID: HPMS11	Run Time: 12:01	Method: 8260B
File ID: 11M55856	Analyst: WTD	QC Key: STD
Workgroup (AAB#): WG289859	Cal ID: HPMS11 - 25-NOV-08	
Matrix: WATER		

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	51.5	ug/L	0.295	3.09	40	
2-Hexanone	50.0	43.5	ug/L	0.111	13.0	40	
Hexachlorobutadiene	50.0	45.4	ug/L	0.235	9.18	40	
Isopropylbenzene	50.0	47.7	ug/L	1.24	4.52	40	
p-Isopropyltoluene	50.0	49.5	ug/L	2.15	0.923	40	
4-Methyl-2-Pentanone	50.0	42.2	ug/L	0.0554	15.7	40	
Methylene Chloride	50.0	58.6	ug/L	0.249	17.2	40	
Naphthalene	50.0	38.8	ug/L	1.18	22.4	40	
n-Propylbenzene	50.0	53.5	ug/L	2.79	7.06	40	
Styrene	50.0	47.5	ug/L	0.818	4.92	40	
1,1,1,2-Tetrachloroethane	50.0	50.7	ug/L	0.259	1.36	40	
Tetrachloroethene	50.0	45.4	ug/L	0.209	9.26	40	
1,2,3-Trichlorobenzene	50.0	38.9	ug/L	0.509	22.2	40	
1,2,4-Trichlorobenzene	50.0	41.3	ug/L	0.619	17.5	40	
1,1,1-Trichloroethane	50.0	52.5	ug/L	0.363	4.94	40	
1,1,2-Trichloroethane	50.0	43.8	ug/L	0.156	12.3	40	
Trichloroethene	50.0	48.4	ug/L	0.252	3.12	40	
Trichlorofluoromethane	50.0	60.8	ug/L	0.459	21.5	40	
1,2,3-Trichloropropane	50.0	45.2	ug/L	0.115	9.67	40	
1,2,4-Trimethylbenzene	50.0	50.4	ug/L	2.06	0.808	40	
1,3,5-Trimethylbenzene	50.0	52.0	ug/L	2.09	4.04	40	
Vinyl Acetate	50.0	38.5	ug/L	0.0947	22.9	40	
o-Xylene	50.0	47.8	ug/L	0.484	4.37	40	
m-,p-Xylene	100	96.7	ug/L	0.496	3.28	40	
1,2-Dichloroethene	100	101	ug/L	0.221	1.02	40	
Xylenes	150	145	ug/L	0.490	3.64	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG289940-02
Instrument ID: HPMS11 Run Time: 09:23 Method: 8260B
File ID: 11M55884 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG289946 Cal ID: HPMS11 - 25-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	57.2	ug/L	0.430	14.4	20	
1,1-Dichloroethene	CCC	50.0	58.6	ug/L	0.429	17.1	20	
1,2-Dichloropropane	CCC	50.0	54.2	ug/L	0.247	8.31	20	
Ethylbenzene	CCC	50.0	51.2	ug/L	0.429	2.38	20	
Toluene	CCC	50.0	50.3	ug/L	1.10	0.528	20	
Vinyl Chloride	CCC	50.0	53.8	ug/L	0.157	7.59	20	
Bromoform	SPCC	50.0	52.3	ug/L	0.142	4.53	40	
Chlorobenzene	SPCC	50.0	50.5	ug/L	0.785	0.952	40	
Chloromethane	SPCC	50.0	45.7	ug/L	0.168	8.65	40	
1,1-Dichloroethane	SPCC	50.0	57.4	ug/L	0.485	14.8	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	54.1	ug/L	0.366	8.14	40	
Acetone		50.0	56.3	ug/L	0.0534	12.6	40	
Benzene		50.0	53.0	ug/L	0.859	5.93	40	
Bromobenzene		50.0	49.7	ug/L	0.620	0.579	40	
Bromochloromethane		50.0	53.3	ug/L	0.141	6.51	40	
Bromodichloromethane		50.0	58.8	ug/L	0.311	17.6	40	
Bromomethane		50.0	50.1	ug/L	0.0942	0.289	40	
2-Butanone		50.0	55.0	ug/L	0.0729	9.95	40	
n-Butylbenzene		50.0	51.8	ug/L	1.83	3.66	40	
sec-Butylbenzene		50.0	50.5	ug/L	2.49	1.03	40	
tert-Butylbenzene		50.0	49.4	ug/L	0.430	1.30	40	
Carbon Disulfide		50.0	50.1	ug/L	0.594	0.143	40	
Carbon Tetrachloride		50.0	64.6	ug/L	0.349	29.2	40	
Dibromochloromethane		50.0	57.1	ug/L	0.259	14.2	40	
Chloroethane		50.0	50.6	ug/L	0.134	1.16	40	
2-Chloroethyl Vinyl Ether		50.0	48.3	ug/L	0.0982	3.49	40	
2-Chlorotoluene		50.0	49.6	ug/L	1.59	0.822	40	
4-Chlorotoluene		50.0	52.2	ug/L	1.74	4.40	40	
1,2-Dibromo-3-Chloropropane		50.0	51.7	ug/L	0.0698	3.38	40	
1,2-Dibromoethane		50.0	49.9	ug/L	0.189	0.181	40	
Dibromomethane		50.0	52.8	ug/L	0.106	5.54	40	
1,2-Dichlorobenzene		50.0	49.1	ug/L	1.09	1.78	40	
1,3-Dichlorobenzene		50.0	50.0	ug/L	1.21	0.0464	40	
1,4-Dichlorobenzene		50.0	49.0	ug/L	1.23	2.03	40	
Dichlorodifluoromethane		50.0	48.2	ug/L	0.225	3.50	40	
1,2-Dichloroethane		50.0	55.5	ug/L	0.356	10.9	40	
cis-1,2-Dichloroethene		50.0	53.7	ug/L	0.245	7.38	40	
trans-1,2-Dichloroethene		50.0	55.9	ug/L	0.235	11.8	40	
1,3-Dichloropropane		50.0	50.3	ug/L	0.320	0.617	40	
2,2-Dichloropropane		50.0	49.8	ug/L	0.261	0.392	40	
cis-1,3-Dichloropropene		50.0	57.0	ug/L	0.341	14.1	40	
trans-1,3-Dichloropropene		50.0	55.4	ug/L	0.357	10.8	40	

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Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG289940-02
Instrument ID: HPMS11 Run Time: 09:23 Method: 8260B
File ID: 11M55884 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG289946 Cal ID: HPMS11 - 25-NOV-08
Matrix: WATER

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	55.8	ug/L	0.319	11.5	40	
2-Hexanone	50.0	54.6	ug/L	0.139	9.15	40	
Hexachlorobutadiene	50.0	46.4	ug/L	0.240	7.28	40	
Isopropylbenzene	50.0	51.2	ug/L	1.33	2.45	40	
p-Isopropyltoluene	50.0	50.5	ug/L	2.20	0.965	40	
4-Methyl-2-Pentanone	50.0	49.8	ug/L	0.0653	0.498	40	
Methylene Chloride	50.0	51.5	ug/L	0.220	3.05	40	
Naphthalene	50.0	46.5	ug/L	1.42	6.94	40	
n-Propylbenzene	50.0	52.8	ug/L	2.76	5.63	40	
Styrene	50.0	52.3	ug/L	0.900	4.61	40	
1,1,1,2-Tetrachloroethane	50.0	55.2	ug/L	0.282	10.3	40	
Tetrachloroethene	50.0	49.1	ug/L	0.226	1.87	40	
1,2,3-Trichlorobenzene	50.0	46.3	ug/L	0.607	7.33	40	
1,2,4-Trichlorobenzene	50.0	46.6	ug/L	0.698	6.88	40	
1,1,1-Trichloroethane	50.0	57.4	ug/L	0.398	14.8	40	
1,1,2-Trichloroethane	50.0	50.0	ug/L	0.177	0.0852	40	
Trichloroethene	50.0	50.4	ug/L	0.261	0.729	40	
Trichlorofluoromethane	50.0	54.8	ug/L	0.414	9.56	40	
1,2,3-Trichloropropane	50.0	51.0	ug/L	0.130	2.03	40	
1,2,4-Trimethylbenzene	50.0	51.6	ug/L	2.11	3.23	40	
1,3,5-Trimethylbenzene	50.0	51.9	ug/L	2.09	3.81	40	
Vinyl Acetate	50.0	39.7	ug/L	0.0990	20.6	40	
o-Xylene	50.0	51.0	ug/L	0.516	1.98	40	
m-,p-Xylene	100	103	ug/L	0.528	2.98	40	
1,2-Dichloroethene	100	110	ug/L	0.240	9.60	40	
Xylenes	150	154	ug/L	0.522	2.64	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08120101
Instrument ID: HPMS11
Workgroup (AAB#): WG289676

CCV Number: WG289675-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289675-02	NA	NA	518155	999645	1256376
Upper Limit	NA	NA	1036310	1999290	2512752
Lower Limit	NA	NA	259078	499823	628188
<u>L08120101-04</u>	<u>1.00</u>	<u>01</u>	<u>384118</u>	<u>736843</u>	<u>894378</u>
L08120101-05	1.00	01	390126	750348	918347
L08120101-06	1.00	01	424458	781421	920668
L08120101-07	1.00	01	468158	884602	1050384
L08120101-08	20.0	DL02	341266	641060	779530
L08120101-11	100	DL01	372274	696878	849922
WG289676-01	1.00	01	468072	896221	1103562
WG289676-02	1.00	01	473405	894275	1078868
WG289676-03	1.00	01	384118	736843	894378
WG289676-03	100	DL01	426013	822310	1004011
WG289676-04	1.00	01	424458	781421	920668
WG289676-05	1.00	01	468158	884602	1050384

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120101
Instrument ID: HPMS8
Workgroup (AAB#): WG289819

CCV Number: WG289816-02
CAL ID: HPMS8 - 14-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289816-02	NA	NA	648036	1102195	1273340
Upper Limit	NA	NA	1296072	2204390	2546680
Lower Limit	NA	NA	324018	551098	636670
L08120101-22	1.00	01	373584	739979	872520
WG289819-01	1.00	01	542542	963532	1134567
WG289819-02	1.00	01	576284	982047	1155756
WG289819-03	1.00	01	216578	<u>420021</u>	<u>510275</u>
WG289819-04	1.00	01	265287	<u>460999</u>	<u>553068</u>
WG289819-05	1.00	01	<u>278833</u>	<u>501519</u>	<u>611460</u>

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120101
Instrument ID: HPMS11
Workgroup (AAB#): WG289859

CCV Number: WG289858-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289858-02	NA	NA	684200	1392239	1651813
Upper Limit	NA	NA	1368400	2784478	3303626
Lower Limit	NA	NA	342100	696120	825907
<u>L08120101-01</u>	<u>1.00</u>	<u>01</u>	<u>538886</u>	<u>1010740</u>	<u>1235774</u>
L08120101-03	1.00	01	511467	969967	1181677
L08120101-09	1.00	01	453622	854750	1027416
L08120101-12	1.00	01	430356	813876	981419
L08120101-13	1.00	01	429001	800235	952241
L08120101-14	1.00	01	416950	780578	925198
L08120101-15	1.00	01	399994	751748	903125
L08120101-19	1.00	01	390983	744885	884590
WG289859-01	1.00	01	567054	1049499	1281215
WG289859-02	1.00	01	607440	1107674	1282791
WG289859-03	1.00	01	601033	1121818	1317358

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120101
Instrument ID: HPMS11
Workgroup (AAB#): WG289946

CCV Number: WG289940-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289940-02	NA	NA	541457	998365	1202592
Upper Limit	NA	NA	1082914	1996730	2405184
Lower Limit	NA	NA	270729	499183	601296
<u>L08120101-02</u>	<u>25.0</u>	<u>DL01</u>	<u>434287</u>	<u>822192</u>	<u>998827</u>
<u>L08120101-20</u>	<u>10.0</u>	<u>DL01</u>	<u>430137</u>	<u>826583</u>	<u>1001738</u>
WG289946-01	1.00	01	508291	967362	1173983
WG289946-02	1.00	01	500758	902496	1049119
WG289946-03	1.00	01	527694	945063	1117898

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120101
Instrument ID: HPMS11
Workgroup (AAB#): WG289676

CCV Number: WG289675-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289675-02	NA	NA	16.5	13.71	10.09
Upper Limit	NA	NA	17	14.21	10.59
Lower Limit	NA	NA	16	13.21	9.59
L08120101-04	1.00	01	16.502	13.71	10.091
L08120101-05	1.00	01	16.502	13.71	10.091
L08120101-06	1.00	01	16.502	13.71	10.091
L08120101-07	1.00	01	16.502	13.71	10.091
L08120101-08	20.0	DL02	16.502	13.71	10.091
L08120101-11	100	DL01	16.502	13.71	10.091
WG289676-01	1.00	01	16.502	13.71	10.091
WG289676-02	1.00	01	16.502	13.71	10.091
WG289676-03	1.00	01	16.502	13.71	10.091
WG289676-03	100	DL01	16.502	13.71	10.091
WG289676-04	1.00	01	16.502	13.71	10.091
WG289676-05	1.00	01	16.502	13.71	10.091

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120101
Instrument ID: HPMS8
Workgroup (AAB#): WG289819

CCV Number: WG289816-02
CAL ID: HPMS8 - 14-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289816-02	NA	NA	17.87	14.85	10.97
Upper Limit	NA	NA	18.37	15.35	11.47
Lower Limit	NA	NA	17.37	14.35	10.47
<u>L08120101-22</u>	<u>1.00</u>	<u>01</u>	<u>17.87</u>	<u>14.85</u>	<u>10.97</u>
WG289819-01	1.00	01	17.87	14.85	10.97
WG289819-02	1.00	01	17.87	14.85	10.97
WG289819-03	1.00	01	17.87	14.85	10.97
WG289819-04	1.00	01	17.87	14.85	10.97
WG289819-05	1.00	01	17.86	14.85	10.97

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120101
Instrument ID: HPMS11
Workgroup (AAB#): WG289859

CCV Number: WG289858-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289858-02	NA	NA	16.5	13.71	10.09
Upper Limit	NA	NA	17	14.21	10.59
Lower Limit	NA	NA	16	13.21	9.59
L08120101-01	1.00	01	16.502	13.71	10.091
L08120101-03	1.00	01	16.502	13.71	10.091
L08120101-09	1.00	01	16.502	13.71	10.091
L08120101-12	1.00	01	16.502	13.71	10.091
L08120101-13	1.00	01	16.502	13.71	10.091
L08120101-14	1.00	01	16.502	13.71	10.091
L08120101-15	1.00	01	16.502	13.71	10.091
L08120101-19	1.00	01	16.502	13.71	10.091
WG289859-01	1.00	01	16.502	13.71	10.091
WG289859-02	1.00	01	16.502	13.71	10.091
WG289859-03	1.00	01	16.502	13.7	10.091

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120101
Instrument ID: HPMS11
Workgroup (AAB#): WG289946

CCV Number: WG289940-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289940-02	NA	NA	16.5	13.71	10.09
Upper Limit	NA	NA	17	14.21	10.59
Lower Limit	NA	NA	16	13.21	9.59
L08120101-02	25.0	DL01	16.502	13.71	10.091
L08120101-20	10.0	DL01	16.502	13.71	10.091
WG289946-01	1.00	01	16.502	13.71	10.091
WG289946-02	1.00	01	16.502	13.71	10.091
WG289946-03	1.00	01	16.502	13.71	10.091

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

2.2 Metals Data

2.2.1 Metals I C P Data

2.2.1.1 Summary Data

LABORATORY REPORT

00086891

L08120101

12/15/08 11:05

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: LONGHORN AAP KARNACK TX

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
03WW01-112408	L08120101-08	6010B	5	04-DEC-08
03WW01-112408	L08120101-08	6010B	1	04-DEC-08
35AWW06-120308	L08120101-09	6010B	1	04-DEC-08
35AWW06-120308	L08120101-09	6010B	10	04-DEC-08
49WW06-120308	L08120101-10	6010B	5	04-DEC-08
49WW06-120308	L08120101-10	6010B	1	04-DEC-08
35AWW08-112408	L08120101-11	6010B	5	04-DEC-08
35AWW08-112408	L08120101-11	6010B	1	04-DEC-08
35AWW07-112408	L08120101-12	6010B	1	04-DEC-08
35AWW02-112608	L08120101-13	6010B	2	04-DEC-08
35AWW02-112608	L08120101-13	6010B	1	04-DEC-08
35AWW02-112608-FD	L08120101-14	6010B	1	04-DEC-08
35AWW02-112608-FD	L08120101-14	6010B	2	04-DEC-08
LHSMW04-112508	L08120101-15	6010B	5	04-DEC-08
LHSMW04-112508	L08120101-15	6010B	1	04-DEC-08



Report Number: **L08120101**Report Date : **December 15, 2008**

00086892

Sample Number: **L08120101-08**
Client ID: **03WW01-112408**
Matrix: **Water**
Workgroup Number: **WG289752**
Collect Date: **11/24/2008 17:05**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **ED**
Dilution: **5**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **12/05/2008 09:29**
Cal Date: **12/10/2008 10:15**
Run Date: **12/10/2008 14:20**
File ID: **P2.121008.142016**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Sodium, Total	7440-23-5	388		2.50	1.25

Sample Number: **L08120101-08**
 Client ID: **03WW01-112408**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **11/24/2008 17:05**
 Sample Tag: **02**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 14:13**
 File ID: **P2.121008.141350**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5	1.33		0.100	0.0500
Beryllium, Total	7440-41-7	0.000640	J	0.00200	0.000500
Calcium, Total	7440-70-2	176		0.200	0.100
Cobalt, Total	7440-48-4	0.0209		0.00500	0.00250
Iron, Total	7439-89-6	1.03		0.100	0.0250
Magnesium, Total	7439-95-4	115		0.500	0.250
Potassium, Total	7440-09-7	1.47		1.00	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0180	J	0.0200	0.00500

J The analyte was positively identified, but the quantitation was below the RL
 U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-09**
 Client ID: **35AWW06-120308**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **12/03/2008 14:25**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 15:38**
 File ID: **P2.121008.153826**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5	0.449		0.100	0.0500
Beryllium, Total	7440-41-7	0.000607	J	0.00200	0.000500
Cobalt, Total	7440-48-4	0.00457	J	0.00500	0.00250
Iron, Total	7439-89-6	0.653		0.100	0.0250
Magnesium, Total	7439-95-4	280		0.500	0.250
Potassium, Total	7440-09-7	5.26		1.00	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0232		0.0200	0.00500

J The analyte was positively identified, but the quantitation was below the RL
 U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-09**
Client ID: **35AWW06-120308**
Matrix: **Water**
Workgroup Number: **WG289752**
Collect Date: **12/03/2008 14:25**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **ED**
Dilution: **10**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **12/05/2008 09:29**
Cal Date: **12/10/2008 10:15**
Run Date: **12/10/2008 15:44**
File ID: **P2.121008.154453**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Calcium, Total	7440-70-2	508		2.00	1.00
Sodium, Total	7440-23-5	777		5.00	2.50

Sample Number: **L08120101-10**
Client ID: **49WW06-120308**
Matrix: **Water**
Workgroup Number: **WG289752**
Collect Date: **12/03/2008 12:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **ED**
Dilution: **5**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **12/05/2008 09:29**
Cal Date: **12/10/2008 10:15**
Run Date: **12/10/2008 15:57**
File ID: **P2.121008.155734**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Sodium, Total	7440-23-5	463		2.50	1.25

Sample Number: **L08120101-10**
 Client ID: **49WW06-120308**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **12/03/2008 12:40**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 15:51**
 File ID: **P2.121008.155115**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5	2.34		0.100	0.0500
Beryllium, Total	7440-41-7	0.000592	J	0.00200	0.000500
Calcium, Total	7440-70-2	329		0.200	0.100
Cobalt, Total	7440-48-4	0.00658		0.00500	0.00250
Iron, Total	7439-89-6	2.21		0.100	0.0250
Magnesium, Total	7439-95-4	237		0.500	0.250
Potassium, Total	7440-09-7	14.2		1.00	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0264		0.0200	0.00500

J The analyte was positively identified, but the quantitation was below the RL
 U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-11**
Client ID: **35AWW08-112408**
Matrix: **Water**
Workgroup Number: **WG289752**
Collect Date: **11/24/2008 12:25**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **ED**
Dilution: **5**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **12/05/2008 09:29**
Cal Date: **12/10/2008 10:15**
Run Date: **12/10/2008 16:10**
File ID: **P2.121008.161026**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Sodium, Total	7440-23-5	658		2.50	1.25

Sample Number: **L08120101-11**
 Client ID: **35AWW08-112408**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **11/24/2008 12:25**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 16:03**
 File ID: **P2.121008.160359**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5		U	0.100	0.0500
Beryllium, Total	7440-41-7	0.000960	J	0.00200	0.000500
Calcium, Total	7440-70-2	335		0.200	0.100
Cobalt, Total	7440-48-4	0.0525		0.00500	0.00250
Iron, Total	7439-89-6	0.510		0.100	0.0250
Magnesium, Total	7439-95-4	205		0.500	0.250
Potassium, Total	7440-09-7	3.77		1.00	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0364		0.0200	0.00500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-12**
 Client ID: **35AWW07-112408**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **11/24/2008 09:50**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 16:16**
 File ID: **P2.121008.161644**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5	2.61		0.100	0.0500
Beryllium, Total	7440-41-7	0.000520	J	0.00200	0.000500
Calcium, Total	7440-70-2	10.8		0.200	0.100
Cobalt, Total	7440-48-4	0.00414	J	0.00500	0.00250
Iron, Total	7439-89-6	3.30		0.100	0.0250
Magnesium, Total	7439-95-4	7.81		0.500	0.250
Potassium, Total	7440-09-7	1.53		1.00	0.250
Sodium, Total	7440-23-5	44.9		0.500	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0122	J	0.0200	0.00500

J The analyte was positively identified, but the quantitation was below the RL
 U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-13**
Client ID: **35AWW02-112608**
Matrix: **Water**
Workgroup Number: **WG289752**
Collect Date: **11/26/2008 09:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **ED**
Dilution: **2**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **12/05/2008 09:29**
Cal Date: **12/10/2008 10:15**
Run Date: **12/10/2008 16:30**
File ID: **P2.121008.163011**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Sodium, Total	7440-23-5	199		1.00	0.500

Sample Number: **L08120101-13**
 Client ID: **35AWW02-112608**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **11/26/2008 09:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 16:23**
 File ID: **P2.121008.162352**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5	0.950		0.100	0.0500
Beryllium, Total	7440-41-7		U	0.00200	0.000500
Calcium, Total	7440-70-2	65.4		0.200	0.100
Cobalt, Total	7440-48-4	0.00380	J	0.00500	0.00250
Iron, Total	7439-89-6	3.51		0.100	0.0250
Magnesium, Total	7439-95-4	2.89		0.500	0.250
Potassium, Total	7440-09-7	3.73		1.00	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0330		0.0200	0.00500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-14**
 Client ID: **35AWW02-112608-FD**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **11/26/2008 09:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 16:49**
 File ID: **P2.121008.164907**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5	1.01		0.100	0.0500
Beryllium, Total	7440-41-7		U	0.00200	0.000500
Calcium, Total	7440-70-2	63.6		0.200	0.100
Cobalt, Total	7440-48-4	0.00355	J	0.00500	0.00250
Iron, Total	7439-89-6	3.38		0.100	0.0250
Magnesium, Total	7439-95-4	2.91		0.500	0.250
Potassium, Total	7440-09-7	3.80		1.00	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0339		0.0200	0.00500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-14**
Client ID: **35AWW02-112608-FD**
Matrix: **Water**
Workgroup Number: **WG289752**
Collect Date: **11/26/2008 09:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **ED**
Dilution: **2**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **12/05/2008 09:29**
Cal Date: **12/10/2008 10:15**
Run Date: **12/10/2008 16:55**
File ID: **P2.121008.165521**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Sodium, Total	7440-23-5	205		1.00	0.500

Report Number: **L08120101**Report Date : **December 15, 2008**

00086905

Sample Number: **L08120101-15**
Client ID: **LHSMW04-112508**
Matrix: **Water**
Workgroup Number: **WG289752**
Collect Date: **11/25/2008 11:45**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **ED**
Dilution: **5**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **12/05/2008 09:29**
Cal Date: **12/10/2008 10:15**
Run Date: **12/10/2008 17:07**
File ID: **P2.121008.170711**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Sodium, Total	7440-23-5	686		2.50	1.25

Sample Number: **L08120101-15**
 Client ID: **LHSMW04-112508**
 Matrix: **Water**
 Workgroup Number: **WG289752**
 Collect Date: **11/25/2008 11:45**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3005A**
 Analytical Method: **6010B**
 Analyst: **ED**
 Dilution: **1**
 Units: **mg/L**

Instrument: **PE-ICP2**
 Prep Date: **12/05/2008 09:29**
 Cal Date: **12/10/2008 10:15**
 Run Date: **12/10/2008 17:01**
 File ID: **P2.121008.170142**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Aluminum, Total	7429-90-5	0.0637	J	0.100	0.0500
Beryllium, Total	7440-41-7		U	0.00200	0.000500
Calcium, Total	7440-70-2	244		0.200	0.100
Cobalt, Total	7440-48-4	0.0197		0.00500	0.00250
Iron, Total	7439-89-6	6.56		0.100	0.0250
Magnesium, Total	7439-95-4	128		0.500	0.250
Potassium, Total	7440-09-7	0.897	J	1.00	0.250
Vanadium, Total	7440-62-2		U	0.0100	0.00500
Zinc, Total	7440-66-6	0.0177	J	0.0200	0.00500

J The analyte was positively identified, but the quantitation was below the RL
 U Not detected at or above adjusted sample detection limit

2.2.1.2 QC Summary Data

Example 6010 Calculations
Perkin Elmer Optima 4300 DV

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system in ug/mL (ppm)

Vf = Final volume (mL)

Vi = Initial volume (mL)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/mL (mg/L)

Example:

0.1

50

50

1

0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (mg/L) (ppm)

Vf = Final volume (mL)

Vi = Initial weight (g)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/g (mg/kg)

Example:

0.1

50

1

1

5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:

Cx = Concentration calculated as received (wet basis)

Px = Percent solids of sample (%wt)

$Cdry$ = Concentration calculated as dry weight (mg/kg)

Example:

5

80

6.25

Example 6010 Calculations
Thermo Scientific IRIS Advantage

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system in ug/mL (ppm)

Vf = Final volume (mL)

Vi = Initial volume (mL)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/mL (mg/L)

Example:

0.1

50

50

1

0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (mg/L) (ppm)

Vf = Final volume (mL)

Vi = Initial weight (g)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/g (mg/kg)

Example:

0.1

50

1

1

5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:

Cx = Concentration calculated as received (wet basis)

Px = Percent solids of sample (%wt)

$Cdry$ = Concentration calculated as dry weight (mg/kg)

Example:

5

80

6.25

Example 6010 Calculations
Thermo Scientific iCAP 6500

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and four standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system in ug/mL (ppm)

Vf = Final volume (mL)

Vi = Initial volume (mL)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/mL (mg/L)

Example:

0.1

50

50

1

0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (mg/L) (ppm)

Vf = Final volume (mL)

Vi = Initial weight (g)

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in ug/g (mg/kg)

Example:

0.1

50

1

1

5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:

Cx = Concentration calculated as received (wet basis)

Px = Percent solids of sample (%wt)

$Cdry$ = Concentration calculated as dry weight (mg/kg)

Example:

5

80

6.25

Workgroup: WG289708

Analyst: REK

Spike Analyst: REK

Method: 3005A

Run Date: 12/05/2008 09:29

Hotblock Start Temp: 94.9 @ 07:40

Hotblock End Temp: 95 @ 11:40

SOP: ME401 Revision 13

Spike Solution: STD27613

Spike Witness: SDL

HN03 Lot #: COA13563

hcl Lot #: COA13324

Digest tubes Lot #: COA13407

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG289708-02	BLANK	1	50 mL	50 mL		
2	WG289708-03	LCS	1	50 mL	50 mL	5 mL	
3	L08120081-01	SAMP	1	50 mL	50 mL		12/11/08
4	L08120083-01	SAMP	1	50 mL	50 mL		12/12/08
5	L08120083-03	SAMP	1	50 mL	50 mL		12/12/08
6	L08120094-01	SAMP	1	50 mL	50 mL		12/15/08
7	L08120094-02	SAMP	1	50 mL	50 mL		12/15/08
8	L08120094-03	SAMP	1	50 mL	50 mL		12/15/08
9	L08120094-04	SAMP	1	50 mL	50 mL		12/15/08
10	L08120096-01	SAMP	1	50 mL	50 mL		12/11/08
11	WG289708-01	REF	1	50 mL	50 mL		
12	L08120101-08	SAMP	1	50 mL	50 mL		12/11/08
13	L08120101-09	SAMP	1	50 mL	50 mL		12/11/08
14	L08120101-10	SAMP	1	50 mL	50 mL		12/11/08
15	L08120101-11	SAMP	1	50 mL	50 mL		12/11/08
16	L08120101-12	SAMP	1	50 mL	50 mL		12/11/08
17	L08120101-13	SAMP	1	50 mL	50 mL		12/11/08
18	L08120101-14	SAMP	1	50 mL	50 mL		12/11/08
19	L08120101-15	SAMP	1	50 mL	50 mL		12/11/08
20	L08120115-01	SAMP	1	50 mL	50 mL		12/12/08
21	L08120115-03	SAMP	1	50 mL	50 mL		12/12/08
22	L08120115-04	SAMP	1	50 mL	50 mL		12/12/08
23	L08120115-05	SAMP	1	50 mL	50 mL		12/12/08
24	WG289708-04	MS	1	50 mL	50 mL	5 mL	
25	WG289708-05	MSD	1	50 mL	50 mL	5 mL	

Analyst: 

Reviewer: 

00086912

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 120908HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26895

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 289751,289749,290023,289679,289752,289995,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.120908.092701	WG289994-01	Calibration Point		1		12/09/08 09:27
2	P2.120908.093313	WG289994-02	Calibration Point		1		12/09/08 09:33
3	P2.120908.093929	WG289994-03	Calibration Point		1		12/09/08 09:39
4	P2.120908.094544	WG289994-04	Calibration Point		1		12/09/08 09:45
5	P2.120908.095200	WG289994-05	Calibration Point		1		12/09/08 09:52
6	P2.120908.095728	WG289994-06	Initial Calibration Verification		1		12/09/08 09:57
7	P2.120908.100346	WG289994-07	Initial Calib Blank		1		12/09/08 10:03
8	P2.120908.101002	WG289994-08	Interference Check		1		12/09/08 10:10
9	P2.120908.101524	WG289994-09	Interference Check		1		12/09/08 10:15
10	P2.120908.102045	WG289994-10	CCV		1		12/09/08 10:20
11	P2.120908.102702	WG289994-11	CCB		1		12/09/08 10:27
12	P2.120908.103612	WG289752-03	Louisville Chem Requ		1		12/09/08 10:36
13	P2.120908.104229	L08120067-01	P1343		10		12/09/08 10:42
14	P2.120908.104754	L08120067-02	T1363		10		12/09/08 10:47
15	P2.120908.105317	L08120067-03	T1365		10		12/09/08 10:53
16	P2.120908.105833	WG289994-12	CCV		1		12/09/08 10:58
17	P2.120908.110500	WG289994-13	CCB		1		12/09/08 11:05
18	P2.120908.110944	L08120083-02	FLUME		100		12/09/08 11:09
19	P2.120908.111557	L08120083-04	202 EFF	50/50	100		12/09/08 11:15
20	P2.120908.111953	L08120120-02	201 EFF	50/50	100		12/09/08 11:19
21	P2.120908.112606	L08120120-04	EMERGANCY BASIN	50/50	100		12/09/08 11:26
22	P2.120908.113228	L08120083-02	FLUME	50/50	50		12/09/08 11:32
23	P2.120908.113947	WG289994-14	CCV		1		12/09/08 11:39
24	P2.120908.114605	WG289994-15	CCB		1		12/09/08 11:46
25	P2.120908.115107	WG289955-04	Louisville Chem Requ		1		12/09/08 11:51
26	P2.120908.115721	WG289706-02	Method/Prep Blank	50/50	1		12/09/08 11:57
27	P2.120908.120348	WG289706-03	Laboratory Control S	50/50	1		12/09/08 12:03
28	P2.120908.121008	WG289706-01	Reference Sample		10	L08120080-01	12/09/08 12:10
29	P2.120908.121621	WG289749-01	Post Digestion Spike		10	L08120080-01	12/09/08 12:16
30	P2.120908.122243	WG289749-02	Serial Dilution		50	L08120080-01	12/09/08 12:22
31	P2.120908.122903	WG289706-04	Matrix Spike	50/50	10	L08120080-01	12/09/08 12:29
32	P2.120908.123516	WG289706-05	Matrix Spike Duplica	50/50	10	L08120080-01	12/09/08 12:35
33	P2.120908.124137	L08120080-02	DMR4	50/50	10		12/09/08 12:41
34	P2.120908.124756	L08120080-03	UMR3	50/50	10		12/09/08 12:47
35	P2.120908.125314	WG289994-16	CCV		1		12/09/08 12:53
36	P2.120908.125932	WG289994-17	CCB		1		12/09/08 12:59
37	P2.120908.130548	L08120080-04	UMR3	50/50	10		12/09/08 13:05

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Maren Beery



00086913

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 120908HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26895

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 289751,289749,290023,289679,289752,289995,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	P2.120908.131206	L08120080-05	DPSR2	50/50	10		12/09/08 13:12
39	P2.120908.131819	L08120080-06	DPSR2	50/50	10		12/09/08 13:18
40	P2.120908.132436	L08120080-07	UPSR1	50/50	10	WG289611-04	12/09/08 13:24
41	P2.120908.133059	L08120080-08	UPSR1	50/50	10		12/09/08 13:30
42	P2.120908.133713	L08120084-03	OUTFALL 002 (COMP)	50/50	1		12/09/08 13:37
43	P2.120908.134339	L08120085-01	OUTFALL 001 / COMP	50/50	1		12/09/08 13:43
44	P2.120908.134959	L08120085-04	OUTFALL 002 / COMP	50/50	1	WG289853-05	12/09/08 13:49
45	P2.120908.135613	L08120090-03	MW W# 7	50/50	1		12/09/08 13:56
46	P2.120908.140236	L08120090-05	MW W# 8	50/50	1		12/09/08 14:02
47	P2.120908.140857	WG289994-18	CCV		1		12/09/08 14:08
48	P2.120908.141515	WG289994-19	CCB		1		12/09/08 14:15
49	P2.120908.142520	WG289994-20	CCV		1		12/09/08 14:25
50	P2.120908.143140	WG289994-21	CCB		1		12/09/08 14:31
51	P2.120908.143758	L08120090-07	MW W# 9	50/50	1		12/09/08 14:37
52	P2.120908.144417	L08120100-01	OUTFALL 001/COMP	50/50	1		12/09/08 14:44
53	P2.120908.145035	L08120100-02	OUTFALL 001/GRAB	50/50	1	WG289966-03	12/09/08 14:50
54	P2.120908.145607	WG289561-02	Method/Prep Blank	50/50	1		12/09/08 14:56
55	P2.120908.150007	WG289985-01	Method/Prep Blank		1		12/09/08 15:00
56	P2.120908.150621	WG289985-02	Laboratory Control S		1		12/09/08 15:06
57	P2.120908.151238	WG289985-03	Laboratory Control S		1		12/09/08 15:12
58	P2.120908.151938	L08120219-01	TSS-01		100	WG290032-04	12/09/08 15:19
59	P2.120908.152711	WG290023-01	Post Digestion Spike		100	L08120219-01	12/09/08 15:27
60	P2.120908.153330	WG290023-02	Serial Dilution		500	L08120219-01	12/09/08 15:33
61	P2.120908.153953	WG289994-22	CCV		1		12/09/08 15:39
62	P2.120908.154614	WG289994-23	CCB		1		12/09/08 15:46
63	P2.120908.155232	L08120219-01	TSS-01		1	WG290032-04	12/09/08 15:52
64	P2.120908.155752	WG290023-01	Post Digestion Spike		1	L08120219-01	12/09/08 15:57
65	P2.120908.160317	WG290023-02	Serial Dilution		5	L08120219-01	12/09/08 16:03
66	P2.120908.160935	WG289561-03	Laboratory Control S	50/50	1		12/09/08 16:09
67	P2.120908.161554	L08120059-13	EB-120208-IS	50/50	1		12/09/08 16:15
68	P2.120908.162215	WG289679-03	Post Digestion Spike		1	L08120059-13	12/09/08 16:22
69	P2.120908.162831	WG289679-04	Serial Dilution		5	L08120059-13	12/09/08 16:28
70	P2.120908.163447	L08120059-14	EB-120208-SS	50/50	1		12/09/08 16:34
71	P2.120908.164107	WG289561-01	Reference Sample		1	L08120063-01	12/09/08 16:41
72	P2.120908.164823	WG289561-04	Matrix Spike	50/50	1	L08120063-01	12/09/08 16:48
73	P2.120908.165449	WG289994-24	CCV		1		12/09/08 16:54
74	P2.120908.170107	WG289994-25	CCB		1		12/09/08 17:01

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Maren Beery



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 120908HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26895

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 289751,289749,290023,289679,289752,289995,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	P2.120908.170723	WG289561-05	Matrix Spike Duplica	50/50	1	L08120063-01	12/09/08 17:07
76	P2.120908.171345	L08120067-01	P1343	50/50	1		12/09/08 17:13
77	P2.120908.171913	L08120067-01	P1343	50/50	10		12/09/08 17:19
78	P2.120908.172431	L08120067-02	T1363	50/50	1		12/09/08 17:24
79	P2.120908.172958	L08120067-02	T1363	50/50	10		12/09/08 17:29
80	P2.120908.173524	L08120067-03	T1365	50/50	1		12/09/08 17:35
81	P2.120908.174044	L08120067-03	T1365	50/50	10		12/09/08 17:40
82	P2.120908.174614	L08120067-04	T1360	50/50	1		12/09/08 17:46
83	P2.120908.175140	L08120067-05	T1362	50/50	1		12/09/08 17:51
84	P2.120908.175756	WG289708-02	Method/Prep Blank	50/50	1		12/09/08 17:57
85	P2.120908.180417	WG289994-26	CCV		1		12/09/08 18:04
86	P2.120908.181036	WG289994-27	CCB		1		12/09/08 18:10
87	P2.120908.181651	WG289708-03	Laboratory Control S	50/50	1		12/09/08 18:16
88	P2.120908.182312	L08120081-01	0812-028-1	50/50	1		12/09/08 18:23
89	P2.120908.182933	L08120083-01	FLUME		1		12/09/08 18:29
90	P2.120908.183551	L08120083-03	202 EFF		1		12/09/08 18:35
91	P2.120908.184216	L08120094-01	EOD-MW02	50/50	1		12/09/08 18:42
92	P2.120908.184837	L08120094-02	EOD-MW03	50/50	1	WG289716-01	12/09/08 18:48
93	P2.120908.185451	L08120094-03	EOD-MW04R	50/50	1		12/09/08 18:54
94	P2.120908.190112	L08120094-04	EOD-MW02-RIN	50/50	1		12/09/08 19:01
95	P2.120908.190737	L08120096-01	0812-024-1		1		12/09/08 19:07
96	P2.120908.191350	WG289708-01	Reference Sample		1	L08120101-08	12/09/08 19:13
97	P2.120908.192017	WG289994-28	CCV		1		12/09/08 19:20
98	P2.120908.192723	WG289994-29	CCB		1		12/09/08 19:27
99	P2.120908.193339	WG289752-01	Post Digestion Spike		1	L08120101-08	12/09/08 19:33
100	P2.120908.194011	WG289752-02	Serial Dilution		5	L08120101-08	12/09/08 19:40
101	P2.120908.194636	WG289708-04	Matrix Spike	50/50	1	L08120101-08	12/09/08 19:46
102	P2.120908.195257	WG289708-05	Matrix Spike Duplica	50/50	1	L08120101-08	12/09/08 19:52
103	P2.120908.195924	L08120101-09	35AWW06-120308		1	WG289713-01	12/09/08 19:59
104	P2.120908.200550	L08120101-10	49WW06-120308		1		12/09/08 20:05
105	P2.120908.201214	L08120101-11	35AWW08-112408		1		12/09/08 20:12
106	P2.120908.201844	L08120101-12	35AWW07-112408		1		12/09/08 20:18
107	P2.120908.202506	L08120101-13	35AWW02-112608		1		12/09/08 20:25
108	P2.120908.203132	L08120101-14	35AWW02-112608-FD		1		12/09/08 20:31
109	P2.120908.203752	WG289994-30	CCV		1		12/09/08 20:37
110	P2.120908.204410	WG289994-31	CCB		1		12/09/08 20:44
111	P2.120908.205025	L08120101-15	LHSMW04-112508		1		12/09/08 20:50

Maren Beery



00086915

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 120908HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26895

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 289751,289749,290023,289679,289752,289995,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
112	P2.120908.205559	L08120115-01	0812-076-1		1		12/09/08 20:55
113	P2.120908.210219	L08120115-03	0812-039-1		1		12/09/08 21:02
114	P2.120908.210835	L08120115-04	0812-039-2		1		12/09/08 21:08
115	P2.120908.211457	L08120115-05	0812-039-3		1		12/09/08 21:14
116	P2.120908.212158	WG289978-02	Method/Prep Blank		1		12/09/08 21:21
117	P2.120908.212819	WG289978-03	Laboratory Control S		1		12/09/08 21:28
118	P2.120908.213435	WG289857-01	Fluid Blank		1		12/09/08 21:34
119	P2.120908.214059	WG289978-01	Reference Sample		1	L08120147-01	12/09/08 21:40
120	P2.120908.214725	WG289995-01	Post Digestion Spike		1	L08120147-01	12/09/08 21:47
121	P2.120908.215344	WG289994-32	CCV		1		12/09/08 21:53
122	P2.120908.220002	WG289994-33	CCB		1		12/09/08 22:00
123	P2.120908.220623	WG289995-02	Serial Dilution		5	L08120147-01	12/09/08 22:06
124	P2.120908.221247	WG289978-04	Matrix Spike		1	L08120147-01	12/09/08 22:12
125	P2.120908.221911	WG289978-05	Matrix Spike Duplica		1	L08120147-01	12/09/08 22:19
126	P2.120908.222531	L08120179-01	HSBH		1		12/09/08 22:25
127	P2.120908.223157	WG289830-02	Method/Prep Blank	50/50	1		12/09/08 22:31
128	P2.120908.223817	WG289830-03	Laboratory Control S	50/50	1		12/09/08 22:38
129	P2.120908.224440	L08120079-01	W&L HAUGHT	50/50	1		12/09/08 22:44
130	P2.120908.225100	L08120079-02	MATT FREELAND	50/50	1		12/09/08 22:51
131	P2.120908.225725	L08120079-03	JEAN FREELAND	50/50	1		12/09/08 22:57
132	P2.120908.230348	L08120079-04	RAY ELLIOTT	50/50	1		12/09/08 23:03
133	P2.120908.231004	WG289994-34	CCV		1		12/09/08 23:10
134	P2.120908.231622	WG289994-35	CCB		1		12/09/08 23:16
135	P2.120908.232243	L08120079-05	BILL MACKINNON	50/50	1		12/09/08 23:22
136	P2.120908.232907	L08120079-06	SHAWN NEWLON	50/50	1		12/09/08 23:29
137	P2.120908.233536	L08120129-21	MR08-EB01120380-SS		1		12/09/08 23:35
138	P2.120908.234158	L08120129-22	MR08-EB01120380-IS		1		12/09/08 23:41
139	P2.120908.234813	WG289830-01	Reference Sample		1	L08120148-01	12/09/08 23:48
140	P2.120908.235434	WG289955-01	Post Digestion Spike		1	L08120148-01	12/09/08 23:54
141	P2.121008.000056	WG289955-02	Serial Dilution		5	L08120148-01	12/10/08 00:00
142	P2.121008.000712	L08120148-02	EOD-MW01-DUP	50/50	1		12/10/08 00:07
143	P2.121008.001334	WG289830-04	Matrix Spike	50/50	1	L08120148-01	12/10/08 00:13
144	P2.121008.001958	WG289830-05	Matrix Spike Duplica	50/50	1	L08120148-01	12/10/08 00:19
145	P2.121008.002614	WG289994-36	CCV		1		12/10/08 00:26
146	P2.121008.003233	WG289994-37	CCB		1		12/10/08 00:32
147	P2.121008.003855	L08120162-25	MR08-EB01120408-SS		1		12/10/08 00:38
148	P2.121008.004511	L08120162-26	MR08-EB01120408-IS		1		12/10/08 00:45

Maren Beery



00086916

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 120908HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26895

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 289751,289749,290023,289679,289752,289995,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
149	P2.121008.005132	L08120169-01	120308GWMAW005-O-U	50/50	1		12/10/08 00:51
150	P2.121008.005757	L08120169-02	120308GWMAW005-O-F	50/50	1		12/10/08 00:57
151	P2.121008.010417	WG289994-38	CCV		1		12/10/08 01:04
152	P2.121008.011035	WG289994-39	CCB		1		12/10/08 01:10

Maren Beery



00086917

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 121008HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26911

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 290023,289752,290136,289995,289679,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.121008.095058	WG290123-01	Calibration Point		1		12/10/08 09:50
2	P2.121008.095709	WG290123-02	Calibration Point		1		12/10/08 09:57
3	P2.121008.100325	WG290123-03	Calibration Point		1		12/10/08 10:03
4	P2.121008.100942	WG290123-04	Calibration Point		1		12/10/08 10:09
5	P2.121008.101558	WG290123-05	Calibration Point		1		12/10/08 10:15
6	P2.121008.102129	WG290123-06	Initial Calibration Verification		1		12/10/08 10:21
7	P2.121008.102747	WG290123-07	Initial Calib Blank		1		12/10/08 10:27
8	P2.121008.103403	WG290123-08	Interference Check		1		12/10/08 10:34
9	P2.121008.103923	WG290123-09	Interference Check		1		12/10/08 10:39
10	P2.121008.104443	WG290123-10	CCV		1		12/10/08 10:44
11	P2.121008.105101	WG290123-11	CCB		1		12/10/08 10:51
12	P2.121008.110405	WG289985-01	Method/Prep Blank	50/50	1		12/10/08 11:04
13	P2.121008.111030	WG289985-02	Laboratory Control S	50/50	1		12/10/08 11:10
14	P2.121008.111651	WG289985-03	Laboratory Control S	50/50	1		12/10/08 11:16
15	P2.121008.112313	WG290123-12	CCV		1		12/10/08 11:23
16	P2.121008.112931	WG290123-13	CCB		1		12/10/08 11:29
17	P2.121008.113547	L08120219-01	TSS-01	50/50	100	WG290032-04	12/10/08 11:35
18	P2.121008.114211	WG290023-01	Post Digestion Spike		100	L08120219-01	12/10/08 11:42
19	P2.121008.114829	WG290023-02	Serial Dilution		500	L08120219-01	12/10/08 11:48
20	P2.121008.115531	WG290123-14	CCV		1		12/10/08 11:55
21	P2.121008.120150	WG290123-15	CCB		1		12/10/08 12:01
22	P2.121008.130531	WG290123-16	CCV		1		12/10/08 13:05
23	P2.121008.131148	WG290123-17	CCB		1		12/10/08 13:11
24	P2.121008.131806	WG289708-02	Method/Prep Blank	50/50	1		12/10/08 13:18
25	P2.121008.132426	WG289708-03	Laboratory Control S	50/50	1		12/10/08 13:24
26	P2.121008.133039	L08120115-01	0812-076-1	50/50	1		12/10/08 13:30
27	P2.121008.133658	L08120115-03	0812-039-1	50/50	1		12/10/08 13:36
28	P2.121008.134317	L08120115-04	0812-039-2	50/50	1		12/10/08 13:43
29	P2.121008.134931	L08120115-05	0812-039-3	50/50	1		12/10/08 13:49
30	P2.121008.135454	L08120096-01	0812-024-1	50/50	1		12/10/08 13:54
31	P2.121008.140114	WG290123-18	CCV		1		12/10/08 14:01
32	P2.121008.140735	WG290123-19	CCB		1		12/10/08 14:07
33	P2.121008.141350	WG289708-01	Reference Sample		1	L08120101-08	12/10/08 14:13
34	P2.121008.142016	WG289708-01	Reference Sample		5	L08120101-08	12/10/08 14:20
35	P2.121008.142634	WG289752-01	Post Digestion Spike		1	L08120101-08	12/10/08 14:26
36	P2.121008.143257	WG289752-01	Post Digestion Spike		5	L08120101-08	12/10/08 14:32
37	P2.121008.144002	WG289955-05	Louisville Chem Requ		1		12/10/08 14:40

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Maren Beery



Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 121008HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26911

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 290023,289752,290136,289995,289679,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	P2.121008.144616	WG289752-02	Serial Dilution		5	L08120101-08	12/10/08 14:46
39	P2.121008.145242	WG289752-02	Serial Dilution		25	L08120101-08	12/10/08 14:52
40	P2.121008.150028	WG289708-04	Matrix Spike	50/50	1	L08120101-08	12/10/08 15:00
41	P2.121008.150648	WG289708-04	Matrix Spike	50/50	5	L08120101-08	12/10/08 15:06
42	P2.121008.151315	WG289708-01	Reference Sample	50/50	1	L08120101-08	12/10/08 15:13
43	P2.121008.151933	WG290123-20	CCV		1		12/10/08 15:19
44	P2.121008.152554	WG290123-21	CCB		1		12/10/08 15:25
45	P2.121008.153207	WG289708-05	Matrix Spike Duplica	50/50	5	L08120101-08	12/10/08 15:32
46	P2.121008.153826	L08120101-09	35AWW06-120308	50/50	1		12/10/08 15:38
47	P2.121008.154453	L08120101-09	35AWW06-120308	50/50	10		12/10/08 15:44
48	P2.121008.155115	L08120101-10	49WW06-120308	50/50	1		12/10/08 15:51
49	P2.121008.155734	L08120101-10	49WW06-120308	50/50	5		12/10/08 15:57
50	P2.121008.160359	L08120101-11	35AWW08-112408	50/50	1		12/10/08 16:03
51	P2.121008.161026	L08120101-11	35AWW08-112408	50/50	5		12/10/08 16:10
52	P2.121008.161644	L08120101-12	35AWW07-112408	50/50	1		12/10/08 16:16
53	P2.121008.162352	L08120101-13	35AWW02-112608	50/50	1		12/10/08 16:23
54	P2.121008.163011	L08120101-13	35AWW02-112608	50/50	2		12/10/08 16:30
55	P2.121008.163633	WG290123-22	CCV		1		12/10/08 16:36
56	P2.121008.164251	WG290123-23	CCB		1		12/10/08 16:42
57	P2.121008.164907	L08120101-14	35AWW02-112608-FD	50/50	1		12/10/08 16:49
58	P2.121008.165521	L08120101-14	35AWW02-112608-FD	50/50	2		12/10/08 16:55
59	P2.121008.170142	L08120101-15	LHSMW04-112508	50/50	1		12/10/08 17:01
60	P2.121008.170711	L08120101-15	LHSMW04-112508	50/50	5		12/10/08 17:07
61	P2.121008.171328	L08120083-01	FLUME	50/50	1		12/10/08 17:13
62	P2.121008.171950	L08120083-01	FLUME	50/50	100		12/10/08 17:19
63	P2.121008.172610	L08120083-03	202 EFF	50/50	1		12/10/08 17:26
64	P2.121008.173230	L08120083-03	202 EFF	50/50	100		12/10/08 17:32
65	P2.121008.173843	BLANK	BLANK		1		12/10/08 17:38
66	P2.121008.174503	BLANK	BLANK		1		12/10/08 17:45
67	P2.121008.175124	WG290123-24	CCV		1		12/10/08 17:51
68	P2.121008.175744	WG290123-25	CCB		1		12/10/08 17:57
69	P2.121008.180402	BLANK	BLANK		1		12/10/08 18:04
70	P2.121008.181016	WG290114-02	Method/Prep Blank	50/50	1		12/10/08 18:10
71	P2.121008.181636	WG290114-03	Laboratory Control S	50/50	1		12/10/08 18:16
72	P2.121008.182257	WG290010-01	Fluid Blank		1		12/10/08 18:22
73	P2.121008.182915	WG290114-01	Reference Sample		1	L08120230-01	12/10/08 18:29
74	P2.121008.183540	WG290136-01	Post Digestion Spike		1	L08120230-01	12/10/08 18:35

Maren Beery



00086919

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 121008HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26911

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 290023,289752,290136,289995,289679,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	P2.121008.184202	WG290136-02	Serial Dilution		5	L08120230-01	12/10/08 18:42
76	P2.121008.184826	WG290114-04	Matrix Spike	5/50	1	L08120230-01	12/10/08 18:48
77	P2.121008.185442	WG290114-05	Matrix Spike Duplica	5/50	1	L08120230-01	12/10/08 18:54
78	P2.121008.190104	L08120230-02	13837-SSP0014	5/50	1		12/10/08 19:01
79	P2.121008.190729	WG290123-26	CCV		1		12/10/08 19:07
80	P2.121008.191349	WG290123-27	CCB		1		12/10/08 19:13
81	P2.121008.192007	L08120246-01	GT080081	5/50	1		12/10/08 19:20
82	P2.121008.192624	L08120246-02	GT080082	5/50	1		12/10/08 19:26
83	P2.121008.193248	WG289978-02	Method/Prep Blank	50/50	1		12/10/08 19:32
84	P2.121008.193902	WG289978-03	Laboratory Control S	50/50	1		12/10/08 19:39
85	P2.121008.194517	WG289857-01	Fluid Blank		1		12/10/08 19:45
86	P2.121008.195135	WG289978-01	Reference Sample		1	L08120147-01	12/10/08 19:51
87	P2.121008.195753	WG289995-01	Post Digestion Spike		1	L08120147-01	12/10/08 19:57
88	P2.121008.200410	WG289995-02	Serial Dilution		5	L08120147-01	12/10/08 20:04
89	P2.121008.201027	WG289978-04	Matrix Spike	5/50	1	L08120147-01	12/10/08 20:10
90	P2.121008.201642	WG289978-05	Matrix Spike Duplica	5/50	1	L08120147-01	12/10/08 20:16
91	P2.121008.202257	WG290123-28	CCV		1		12/10/08 20:22
92	P2.121008.202911	WG290123-29	CCB		1		12/10/08 20:29
93	P2.121008.203524	L08120179-01	HSBH		1		12/10/08 20:35
94	P2.121008.204144	L08120179-01	HSBH	5/50	2		12/10/08 20:41
95	P2.121008.204805	Sx01 + 0.1ppm Cd	Sx01 + 0.1ppm Cd		2		12/10/08 20:48
96	P2.121008.205425	Sx01 + 0.2ppm Cd	Sx01 + 0.2ppm Cd		2		12/10/08 20:54
97	P2.121008.210044	Sx01 + 0.3ppm Cd	Sx01 + 0.3ppm Cd		2		12/10/08 21:00
98	P2.121008.210703	WG289561-02	Method/Prep Blank	50/50	1		12/10/08 21:07
99	P2.121008.211319	WG289561-03	Laboratory Control S	50/50	1		12/10/08 21:13
100	P2.121008.211934	L08120059-13	EB-120208-IS	50/50	1		12/10/08 21:19
101	P2.121008.212549	L08120059-14	EB-120208-SS	50/50	1		12/10/08 21:25
102	P2.121008.213205	WG289679-05	Post Digestion Spike		1	L08120059-14	12/10/08 21:32
103	P2.121008.213822	WG290123-30	CCV		1		12/10/08 21:38
104	P2.121008.214436	WG290123-31	CCB		1		12/10/08 21:44
105	P2.121008.215047	WG289679-06	Serial Dilution		5	L08120059-14	12/10/08 21:50
106	P2.121008.215701	WG289561-01	Reference Sample		1	L08120063-01	12/10/08 21:57
107	P2.121008.220318	WG289561-04	Matrix Spike	50/50	1	L08120063-01	12/10/08 22:03
108	P2.121008.220937	WG289561-05	Matrix Spike Duplica	50/50	1	L08120063-01	12/10/08 22:09
109	P2.121008.221554	WG289830-02	Method/Prep Blank	50/50	1		12/10/08 22:15
110	P2.121008.222212	WG289830-03	Laboratory Control S	50/50	1		12/10/08 22:22
111	P2.121008.222828	L08120079-01	W&L HAUGHT	50/50	2		12/10/08 22:28

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00086920

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 121008HR.CSV
 Analyst1: ED Analyst2: NA
 Method: 6010B SOP: ME600E Rev: 8
 Maintenance Log ID: 26911

Calibration Std: STD30021 ICV/CCV Std: STD30082 Post Spike: STD27612
 ICSA: STD30083 ICSAB: STD29971

Workgroups: 290023,289752,290136,289995,289679,289955

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
112	P2.121008.223449	L08120079-02	MATT FREELAND	50/50	2		12/10/08 22:34
113	P2.121008.224104	L08120120-01	201 EFF	50/50	100		12/10/08 22:41
114	P2.121008.224719	L08120120-03	EMERGANCY BASIN	50/50	100		12/10/08 22:47
115	P2.121008.225334	WG290123-32	CCV		1		12/10/08 22:53
116	P2.121008.225947	WG290123-33	CCB		1		12/10/08 22:59
117	P2.121008.230558	L08120129-21	MR08-EB01120380-SS	50/50	1		12/10/08 23:05
118	P2.121008.231213	L08120129-22	MR08-EB01120380-IS	50/50	1		12/10/08 23:12
119	P2.121008.231835	WG289830-01	Reference Sample		1	L08120148-01	12/10/08 23:18
120	P2.121008.232453	WG289955-01	Post Digestion Spike		1	L08120148-01	12/10/08 23:24
121	P2.121008.233112	WG289955-02	Serial Dilution		5	L08120148-01	12/10/08 23:31
122	P2.121008.233727	WG289830-04	Matrix Spike	50/50	1	L08120148-01	12/10/08 23:37
123	P2.121008.234341	WG289830-05	Matrix Spike Duplica	50/50	1	L08120148-01	12/10/08 23:43
124	P2.121008.234958	L08120162-25	MR08-EB01120408-SS	50/50	1		12/10/08 23:49
125	P2.121008.235613	L08120162-26	MR08-EB01120408-IS	50/50	1		12/10/08 23:56
126	P2.121108.000228	L08120169-01	120308GWMAW005-O-U	50/50	5		12/11/08 00:02
127	P2.121108.000847	WG290123-34	CCV		1		12/11/08 00:08
128	P2.121108.001500	WG290123-35	CCB		1		12/11/08 00:15
129	P2.121108.002111	L08120169-02	120308GWMAW005-O-F	50/50	5		12/11/08 00:21
130	P2.121108.002734	WG290123-36	CCV		1		12/11/08 00:27
131	P2.121108.003347	WG290123-37	CCB		1		12/11/08 00:33

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Maren Beery



Microbac Laboratories Inc.

Data Checklist

Date: 09-DEC-2008

Analyst: ED

Analyst: NA

Method: 6010B

Instrument: PE-ICP2

Curve Workgroup: WG289994

Runlog ID: 25626

Analytical Workgroups: 289751,289749,290023,289679,289752,289995,289955

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	083,120,059,063,067,081,094,079
	148,169
Client Forms	X
Level X	
Level 3	094
Level 4	059,148,169
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	ED
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
10-DEC-2008

Emily Decker

Secondary Reviewer:
10-DEC-2008

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 10-DEC-2008

Analyst: ED

Analyst: NA

Method: 6010B

Instrument: PE-ICP2

Curve Workgroup: WG290123

Runlog ID: 25651

Analytical Workgroups: 290023,289752,290136,289995,289679,289955

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	219,083,096,101,115,230,246,179
	059,063,120,129,162,169
Client Forms	X
Level X	
Level 3	101
Level 4	230,059,129,169
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	ED
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
12-DEC-2008

Emily Decker

Secondary Reviewer:
12-DEC-2008

Maren Berry

Analytical Method:6010B

AAB#:WG289752

Login Number:L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
49WW06-120308	12/03/08	12/04/08	12/05/08	180	1.87	12/10/08	180	5.26	
49WW06-120308	12/03/08	12/04/08	12/05/08	180	1.87	12/10/08	180	5.27	
35AWW06-120308	12/03/08	12/04/08	12/05/08	180	1.79	12/10/08	180	5.26	
35AWW02-112608	11/26/08	12/04/08	12/05/08	180	9.00	12/10/08	180	5.29	
03WW01-112408	11/24/08	12/04/08	12/05/08	180	10.7	12/10/08	180	5.20	
35AWW02-112608-FD	11/26/08	12/04/08	12/05/08	180	9.00	12/10/08	180	5.31	
LHSMW04-112508	11/25/08	12/04/08	12/05/08	180	9.91	12/10/08	180	5.31	
03WW01-112408	11/24/08	12/04/08	12/05/08	180	10.7	12/10/08	180	5.20	
LHSMW04-112508	11/25/08	12/04/08	12/05/08	180	9.91	12/10/08	180	5.32	
35AWW02-112608-FD	11/26/08	12/04/08	12/05/08	180	9.00	12/10/08	180	5.31	
35AWW07-112408	11/24/08	12/04/08	12/05/08	180	11.0	12/10/08	180	5.28	
35AWW02-112608	11/26/08	12/04/08	12/05/08	180	9.00	12/10/08	180	5.29	
35AWW06-120308	12/03/08	12/04/08	12/05/08	180	1.79	12/10/08	180	5.26	
35AWW08-112408	11/24/08	12/04/08	12/05/08	180	10.9	12/10/08	180	5.28	
35AWW08-112408	11/24/08	12/04/08	12/05/08	180	10.9	12/10/08	180	5.27	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

METHOD BLANK SUMMARY

Login Number: L08120101
 Blank File ID: P2.121008.131806
 Prep Date: 12/05/08 09:29
 Analyzed Date: 12/10/08 13:18
 Analyst: ED

Work Group: WG289752
 Blank Sample ID: WG289708-02
 Instrument ID: PE-ICP2
 Method: 6010B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289708-03	P2.120908.181651	12/09/08 18:16	01
LCS	WG289708-03	P2.121008.132426	12/10/08 13:24	02
03WW01-112408	L08120101-08	P2.121008.141350	12/10/08 14:13	01
03WW01-112408	L08120101-08	P2.121008.142016	12/10/08 14:20	DL01
35AWW06-120308	L08120101-09	P2.121008.153826	12/10/08 15:38	01
35AWW06-120308	L08120101-09	P2.121008.154453	12/10/08 15:44	DL01
49WW06-120308	L08120101-10	P2.121008.155115	12/10/08 15:51	01
49WW06-120308	L08120101-10	P2.121008.155734	12/10/08 15:57	DL01
35AWW08-112408	L08120101-11	P2.121008.160359	12/10/08 16:03	01
35AWW08-112408	L08120101-11	P2.121008.161026	12/10/08 16:10	DL01
35AWW07-112408	L08120101-12	P2.121008.161644	12/10/08 16:16	01
35AWW02-112608	L08120101-13	P2.121008.162352	12/10/08 16:23	01
35AWW02-112608	L08120101-13	P2.121008.163011	12/10/08 16:30	DL01
35AWW02-112608-FD	L08120101-14	P2.121008.164907	12/10/08 16:49	01
35AWW02-112608-FD	L08120101-14	P2.121008.165521	12/10/08 16:55	DL01
LHSMW04-112508	L08120101-15	P2.121008.170142	12/10/08 17:01	01
LHSMW04-112508	L08120101-15	P2.121008.170711	12/10/08 17:07	DL01

Report Name: BLANK_SUMMARY
 PDF File ID: 1272366
 Report generated 12/11/2008 10:17



Login Number: L08120101 Prep Date: 12/05/08 09:29 Sample ID: WG289708-02
Instrument ID: PE-ICP2 Run Date: 12/10/08 13:18 Prep Method: 3005A
File ID: P2.121008.131806 Analyst: ED Method: 6010B
Workgroup (AAB#): WG289752 Matrix: Water Units: mg/L
Contract #: DACA56-94-D-0020 Cal ID: PE-ICP - 10-DEC-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Aluminum, Total	0.0500	0.100	0.0500	1	U
Beryllium, Total	0.000500	0.00200	0.000500	1	U
Calcium, Total	0.100	0.200	0.100	1	U
Cobalt, Total	0.00250	0.00500	0.00250	1	U
Iron, Total	0.0250	0.100	0.0250	1	U
Magnesium, Total	0.250	0.500	0.250	1	U
Potassium, Total	0.250	1.00	0.250	1	U
Sodium, Total	0.250	0.500	0.250	1	U
Vanadium, Total	0.00500	0.0100	0.00500	1	U
Zinc, Total	0.00500	0.0200	0.00500	1	U

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1272367
11-DEC-2008 10:17



Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG289708-03
Instrument ID: PE-ICP2 Run Time: 13:24 Prep Method: 3005A
File ID: P2.121008.132426 Analyst: ED Method: 6010B
Workgroup (AAB#): WG289752 Matrix: Water Units: mg/L
QC Key: STD Lot#: STD27613 Cal ID: PE-ICP - 10-DEC-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Aluminum, Total	5.00	4.80	96.0	85 - 115	
Beryllium, Total	0.0250	0.0241	96.3	85 - 115	
Calcium, Total	5.00	4.92	98.4	85 - 115	
Cobalt, Total	0.100	0.0971	97.1	85 - 115	
Iron, Total	2.00	1.97	98.7	85 - 115	
Magnesium, Total	5.00	4.88	97.6	85 - 115	
Potassium, Total	25.0	23.6	94.5	85 - 115	
Sodium, Total	25.0	23.6	94.5	85 - 115	
Vanadium, Total	0.500	0.485	97.0	85 - 115	
Zinc, Total	0.500	0.483	96.5	85 - 115	

Loginnum: L08120101 Cal ID: PE-ICP2 - Worknum: WG289752
 Instrument ID: PE-ICP2 Contract #: DACA56-94-D-0020 Method: 6010B
 Parent ID: WG289708-01 File ID: P2.121008.142016 Dil: 5 Matrix: WATER
 Sample ID: WG289708-04 MS File ID: P2.121008.150648 Dil: 5 Units: mg/L
 Sample ID: WG289708-05 MSD File ID: P2.121008.153207 Dil: 5

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Sodium, Total	388	25.0	421	134	25.0	423	141	0.391	80 - 120	20	*

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

Loginnum: L08120101 Cal ID: PE-ICP2 - Worknum: WG289752
 Instrument ID: PE-ICP2 Contract #: DACA56-94-D-0020 Method: 6010B
 Parent ID: WG289708-01 File ID: P2.121008.141350 Dil: 1 Matrix: WATER
 Sample ID: WG289708-04 MS File ID: P2.121008.150028 Dil: 1 Units: mg/L
 Sample ID: WG289708-05 MSD File ID: P2.121008.151315 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Aluminum, Total	1.33	5.00	6.39	101	5.00	6.26	98.6	2.17	80 - 120	20	
Beryllium, Total	0.000640	0.0250	0.0234	91.2	0.0250	0.0233	90.6	0.643	80 - 120	20	
Calcium, Total	176	5.00	176	-4.20	5.00	177	17.1	0.605	80 - 120	20	*
Cobalt, Total	0.0209	0.100	0.108	87.5	0.100	0.107	86.4	0.973	80 - 120	20	
Iron, Total	1.03	2.00	2.97	97.0	2.00	2.92	94.4	1.73	80 - 120	20	
Magnesium, Total	115	5.00	116	25.9	5.00	115	6.46	0.840	80 - 120	20	*
Potassium, Total	1.47	25.0	24.7	92.9	25.0	24.2	90.9	1.97	80 - 120	20	
Vanadium, Total	ND	0.500	0.476	95.1	0.500	0.467	93.4	1.86	80 - 120	20	
Zinc, Total	0.0180	0.500	0.457	87.8	0.500	0.449	86.2	1.77	80 - 120	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

Microbac Laboratories Inc.
Serial Dilution Report

Login: L08120101 **Worknum:** WG289752
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG289752-02 **File ID:** P2.121008.145242 **Dil:** 25 **Units:** mg/L
Sample: L08120101-08 **File ID:** P2.121008.142016 **Dil:** 5

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	.9	X	ND	U		
Beryllium	ND	U	ND	U		
Calcium	165		173.25		5.00	
Cobalt	.02035	F	ND	U		
Iron	.945	X	.925	F	2.12	
Magnesium	111.5		123.5		10.80	E
Potassium	1.815	F	ND	U		
Sodium	388		407.5		5.03	
Vanadium	ND	U	ND	U		
Zinc	ND	U	ND	U		

U = Result is below MDL.

F = Result is greater than or equal to MDL and less than the RL.

X = Result is greater than or equal to RL and less than 50 times the MDL.

E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008

PDF File ID: 1272363

12/11/2008 10:44



Microbac Laboratories Inc.
Serial Dilution Report

Login: L08120101 **Worknum:** WG289752
Instrument: PE-ICP2 **Method:** 6010B
Serial Dil: WG289752-02 **File ID:** P2.121008.144616 **Dil:** 5 **Units:** mg/L
Sample: L08120101-08 **File ID:** P2.121008.141350 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Aluminum	1.33	X	1.425	X	7.14	
Beryllium	.00064	F	ND	U		
Calcium	176		166.5		5.40	
Cobalt	.0209	X	.0209	F	0.00	
Iron	1.03	X	1.01	X	1.94	
Magnesium	115		114		0.87	
Potassium	1.47	X	2.055	F	39.80	
Sodium	502		389		22.50	E
Vanadium	ND	U	ND	U		
Zinc	.018	F	ND	U		

U = Result is below MDL.

F = Result is greater than or equal to MDL and less than the RL.

X = Result is greater than or equal to RL and less than 50 times the MDL.

E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008

PDF File ID: 1272363

12/11/2008 10:44



Sample Login ID: L08120101
Instrument ID: PE-ICP2
Post Spike ID: WG289752-01
Sample ID: L08120101-08

Worknum: WG289752
Method: 6010B
Units: mg/L
Matrix: Water
File ID: P2.121008.142634 Dil: 1
File ID: P2.121008.141350 Dil: 1

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	6.38		1.33		5	103.8	75 - 125	
BERYLLIUM	0.0227		0.000640	F	.025	88.5	75 - 125	
CALCIUM	156		176		5	-44.4	75 - 125	N
COBALT	0.104		0.0209		.1	85.5	75 - 125	
IRON	2.83		1.03		2	95.0	75 - 125	
MAGNESIUM	104		115		5	02.9	75 - 125	N
POTASSIUM	24.0		1.47		25	90.5	75 - 125	
SODIUM	443		502		25	-35.0	75 - 125	N
VANADIUM	0.460		0	.005	.5	92.1	75 - 125	
ZINC	0.443		0.0180	F	.5	85.3	75 - 125	

N = % Recovery exceeds control limits

F = Result is between MDL and RL

U = Sample result is below MDL. A value of zero is used in the calculation

Sample Login ID: L08120101
Instrument ID: PE-ICP2
Post Spike ID: WG289752-01
Sample ID: L08120101-08

Worknum: WG289752
Method: 6010B
Units: mg/L
Matrix: Water
File ID: P2.121008.143257 Dil: 5
File ID: P2.121008.142016 Dil: 5

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ALUMINUM	5.07		0.180		5	97.8	75 - 125	
BERYLLIUM	0.0243		0	.0005	.025	97.2	75 - 125	
CALCIUM	39.4		33.0		5	128.3	75 - 125	N
COBALT	0.0985		0.00407	F	.1	94.4	75 - 125	
IRON	2.14		0.189		2	97.4	75 - 125	
MAGNESIUM	27.3		22.3		5	99.9	75 - 125	
POTASSIUM	23.8		0.363	F	25	93.6	75 - 125	
SODIUM	103		77.6		25	103.3	75 - 125	
VANADIUM	0.487		0	.005	.5	97.3	75 - 125	
ZINC	0.475		0	.005	.5	95.0	75 - 125	

N = % Recovery exceeds control limits

F = Result is between MDL and RL

U = Sample result is below MDL. A value of zero is used in the calculation

Microbac Laboratories Inc.
Initial Calibration Summary

00086933

Login:	<u>L08120101</u>	Workgroup (AAB#):	<u>WG289752</u>
Analytical Method:	<u>6010B</u>	Instrument ID:	<u>PE-ICP2</u>
ICAL Worknum:	<u>WG290123</u>	Initial Calibration Date:	<u>10-DEC-2008 10:15</u>

	WG290123-01		WG290123-02		WG290123-03		WG290123-04		WG290123-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
ALUMINUM	0	-115	.1	767	.2	1370	10	65300	20	129000	.999977	
BERYLLIUM	0	-826	.0005	199	.001	405	.05	18300	.1	36700	.999999	
CALCIUM	0	-71.3	.1	15.1	.2	26.8	10	1050	20	2110	.999986	
COBALT	0	-56.8	.002	46.1	.004	90.6	.1	4380	.4	8610	.999964	
IRON	0	-1.02	.04	31.1	.08	59.8	4	3050	8	6040	.999988	
MAGNESIUM	0	12.8	.1	59.2	.2	114	10	5500	20	10900	.999987	
POTASSIUM	0	-683	.5	1210	1	2430	50	112000	100	220000	1	
SODIUM	0	37.6	.5	1130	1	2170	50	102000	100	198000	1	
VANADIUM	0	3710	.01	779	.02	1640	1	84900	2	169000	.999998	
ZINC	0	8.81	.01	91.7	.02	168	1	8310	2	16500	.999991	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995



Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-07
Instrument ID: PE-ICP2 Run Time: 10:27 Method: 6010
File ID: P2.121008.102747 Analyst: ED Units: mg/L
Workgroup (AAB#): WG289752 Cal ID: PE-ICP2 - 10-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ALUMINUM	.05	.1	.05	U
BERYLLIUM	.0005	.002	.0005	U
CALCIUM	.1	.2	.1	U
COBALT	.0025	.005	.0025	U
IRON	.025	.1	.025	U
MAGNESIUM	.25	.5	.25	U
POTASSIUM	.25	1	.25	U
SODIUM	.25	.5	.25	U
VANADIUM	.005	.01	.005	U
ZINC	.005	.02	.005	U

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-11
Instrument ID: PE-ICP2 Run Time: 10:51 Method: 6010B
File ID: P2.121008.105101 Analyst: ED Units: mg/L
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Beryllium	0.000500	0.00200	0.000500	U
Calcium	0.100	0.200	0.100	U
Cobalt	0.00250	0.00500	0.00250	U
Iron	0.0250	0.100	0.0250	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.250	1.00	0.250	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.00500	0.0200	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-17
Instrument ID: PE-ICP2 Run Time: 13:11 Method: 6010B
File ID: P2.121008.131148 Analyst: ED Units: mg/L
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Beryllium	0.000500	0.00200	0.000500	U
Calcium	0.100	0.200	0.100	U
Cobalt	0.00250	0.00500	0.00250	U
Iron	0.0250	0.100	0.0250	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.250	1.00	0.250	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.00500	0.0200	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-19
Instrument ID: PE-ICP2 Run Time: 14:07 Method: 6010B
File ID: P2.121008.140735 Analyst: ED Units: mg/L
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Beryllium	0.000500	0.00200	0.000500	U
Calcium	0.100	0.200	0.100	U
Cobalt	0.00250	0.00500	0.00250	U
Iron	0.0250	0.100	0.0250	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.250	1.00	0.250	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.00500	0.0200	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-21
Instrument ID: PE-ICP2 Run Time: 15:25 Method: 6010B
File ID: P2.121008.152554 Analyst: ED Units: mg/L
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Beryllium	0.000500	0.00200	0.000500	U
Calcium	0.100	0.200	0.100	U
Cobalt	0.00250	0.00500	0.00250	U
Iron	0.0250	0.100	0.0250	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.250	1.00	0.250	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.00500	0.0200	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-23
Instrument ID: PE-ICP2 Run Time: 16:42 Method: 6010B
File ID: P2.121008.164251 Analyst: ED Units: mg/L
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Beryllium	0.000500	0.00200	0.000500	U
Calcium	0.100	0.200	0.100	U
Cobalt	0.00250	0.00500	0.00250	U
Iron	0.0250	0.100	0.0250	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.250	1.00	0.250	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.00500	0.0200	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-25
Instrument ID: PE-ICP2 Run Time: 17:57 Method: 6010B
File ID: P2.121008.175744 Analyst: ED Units: mg/L
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Aluminum	0.0500	0.100	0.0500	U
Beryllium	0.000500	0.00200	0.000500	U
Calcium	0.100	0.200	0.100	U
Cobalt	0.00250	0.00500	0.00250	U
Iron	0.0250	0.100	0.0250	U
Magnesium	0.250	0.500	0.250	U
Potassium	0.250	1.00	0.250	U
Sodium	0.250	0.500	0.250	U
Vanadium	0.00500	0.0100	0.00500	U
Zinc	0.00500	0.0200	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-06
 Instrument ID: PE-ICP2 Run Time: 10:21 Method: 6010B
 File ID: P2.121008.102129 Analyst: ED Units: mg/L
 Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
 QC Key: STD

Analyte	Expected	Found	%REC	LIMITS	Q
Aluminum	10	10.0	100	90 - 110	
Beryllium	.05	0.0504	101	90 - 110	
Calcium	10	10.6	106	90 - 110	
Cobalt	.2	0.201	101	90 - 110	
Iron	4	4.05	101	90 - 110	
Magnesium	10	10.2	102	90 - 110	
Potassium	50	48.9	97.8	90 - 110	
Sodium	50	49.0	98.0	90 - 110	
Vanadium	1	1.01	101	90 - 110	
Zinc	1	1.03	103	90 - 110	

* Exceeds LIMITS Limit

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-10
Instrument ID: PE-ICP2 Run Time: 10:44 Method: 6010B
File ID: P2.121008.104443 Analyst: ED QC Key: STD
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.88	mg/L	98.8	90 - 110		
Beryllium		0.0500	0.0483	mg/L	96.5	90 - 110		
Calcium		10.0	10.2	mg/L	102	90 - 110		
Cobalt		0.200	0.194	mg/L	97.1	90 - 110		
Iron		4.00	3.99	mg/L	99.8	90 - 110		
Magnesium		10.0	10.1	mg/L	101	90 - 110		
Potassium		50.0	48.3	mg/L	96.5	90 - 110		
Sodium		50.0	48.4	mg/L	96.7	90 - 110		
Vanadium		1.00	0.965	mg/L	96.5	90 - 110		
Zinc		1.00	0.973	mg/L	97.3	90 - 110		

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-16
Instrument ID: PE-ICP2 Run Time: 13:05 Method: 6010B
File ID: P2.121008.130531 Analyst: ED QC Key: STD
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.93	mg/L	99.3	90 - 110		
Beryllium		0.0500	0.0489	mg/L	97.8	90 - 110		
Calcium		10.0	10.2	mg/L	102	90 - 110		
Cobalt		0.200	0.196	mg/L	98.1	90 - 110		
Iron		4.00	3.99	mg/L	99.8	90 - 110		
Magnesium		10.0	10.0	mg/L	100	90 - 110		
Potassium		50.0	48.7	mg/L	97.4	90 - 110		
Sodium		50.0	48.6	mg/L	97.1	90 - 110		
Vanadium		1.00	0.985	mg/L	98.5	90 - 110		
Zinc		1.00	0.984	mg/L	98.4	90 - 110		

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-18
Instrument ID: PE-ICP2 Run Time: 14:01 Method: 6010B
File ID: P2.121008.140114 Analyst: ED QC Key: STD
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.55	mg/L	95.5	90 - 110		
Beryllium		0.0500	0.0469	mg/L	93.8	90 - 110		
Calcium		10.0	9.89	mg/L	98.9	90 - 110		
Cobalt		0.200	0.188	mg/L	94.1	90 - 110		
Iron		4.00	3.84	mg/L	95.9	90 - 110		
Magnesium		10.0	9.71	mg/L	97.1	90 - 110		
Potassium		50.0	47.0	mg/L	94.0	90 - 110		
Sodium		50.0	46.8	mg/L	93.7	90 - 110		
Vanadium		1.00	0.941	mg/L	94.1	90 - 110		
Zinc		1.00	0.942	mg/L	94.2	90 - 110		

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-20
Instrument ID: PE-ICP2 Run Time: 15:19 Method: 6010B
File ID: P2.121008.151933 Analyst: ED QC Key: STD
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.70	mg/L	97.0	90 - 110		
Beryllium		0.0500	0.0488	mg/L	97.7	90 - 110		
Calcium		10.0	10.2	mg/L	102	90 - 110		
Cobalt		0.200	0.194	mg/L	97.1	90 - 110		
Iron		4.00	3.95	mg/L	98.7	90 - 110		
Magnesium		10.0	9.89	mg/L	98.9	90 - 110		
Potassium		50.0	47.7	mg/L	95.3	90 - 110		
Sodium		50.0	47.3	mg/L	94.6	90 - 110		
Vanadium		1.00	0.976	mg/L	97.6	90 - 110		
Zinc		1.00	0.993	mg/L	99.3	90 - 110		

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-22
Instrument ID: PE-ICP2 Run Time: 16:36 Method: 6010B
File ID: P2.121008.163633 Analyst: ED QC Key: STD
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.56	mg/L	95.6	90 - 110		
Beryllium		0.0500	0.0477	mg/L	95.5	90 - 110		
Calcium		10.0	9.91	mg/L	99.1	90 - 110		
Cobalt		0.200	0.191	mg/L	95.6	90 - 110		
Iron		4.00	3.84	mg/L	96.1	90 - 110		
Magnesium		10.0	9.67	mg/L	96.7	90 - 110		
Potassium		50.0	47.3	mg/L	94.5	90 - 110		
Sodium		50.0	46.5	mg/L	93.0	90 - 110		
Vanadium		1.00	0.946	mg/L	94.6	90 - 110		
Zinc		1.00	0.966	mg/L	96.6	90 - 110		

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/10/2008 Sample ID: WG290123-24
Instrument ID: PE-ICP2 Run Time: 17:51 Method: 6010B
File ID: P2.121008.175124 Analyst: ED QC Key: STD
Workgroup (AAB#): WG289752 Cal ID: PE-ICP - 10-DEC-08
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Aluminum		10.0	9.72	mg/L	97.2	90 - 110		
Beryllium		0.0500	0.0487	mg/L	97.4	90 - 110		
Calcium		10.0	10.1	mg/L	101	90 - 110		
Cobalt		0.200	0.196	mg/L	98.1	90 - 110		
Iron		4.00	3.85	mg/L	96.2	90 - 110		
Magnesium		10.0	9.70	mg/L	97.0	90 - 110		
Potassium		50.0	48.3	mg/L	96.6	90 - 110		
Sodium		50.0	47.3	mg/L	94.7	90 - 110		
Vanadium		1.00	0.969	mg/L	96.9	90 - 110		
Zinc		1.00	0.998	mg/L	99.8	90 - 110		

* Exceeds LIMITS Criteria

Login number: L08120101
Instrument ID: PE-ICP2
Sol. A : WG290123-08
Sol. AB : WG290123-09

File ID: P2.121008.103403
File ID: P2.121008.103923

Workgroup (AAB#): WG289752
Method: 6010B
Units: mg/L
Matrix: Water

ANALYTE	Sol. A			Sol. AB			Q
	True	Found	%Recovery	True	Found	%Recovery	
Aluminum	250	253	101	250	246	98.4	
Beryllium	NS	0.0000400	NS	0.250	0.240	96.0	
Calcium	250	266	106	250	259	104	
Cobalt	NS	-0.000540	NS	0.250	0.219	87.6	
Iron	100	96.0	96.0	100	94.5	94.5	
Magnesium	250	246	98.4	250	242	96.8	
Potassium	NS	0.0292	NS	5.00	4.75	95.0	
Sodium	NS	-0.00482	NS	5.00	4.80	96.0	
Vanadium	NS	0.00207	NS	0.250	0.242	96.8	
Zinc	NS	-0.000510	NS	0.500	0.435	87.0	

NS = Not spiked

* = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.

= Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

Login Number: L08120101
Instrument ID: PE-ICP2

Date: 01/16/2008
Method: 6010B

Analyte	Wave Length	AG	AL	AS	B	BA
ALUMINUM	396.15	0	0	0.206	0	0
ANTIMONY	206.84	0	0	-0.740	0	0
ARSENIC	188.98	0	0.0499	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	0	0	0	0
CADMIUM	228.80	0	-0.000200	0.0000100	0	0
CALCIUM	227.55	0	-0.370	0.0414	0	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	-0.0647
COPPER	327.39	0	0	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	0	-0.104	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-0.185	0	-0.231	-0.0949	-0.230
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.0669	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0.200	0	-0.190
ZINC	206.20	0	0	0	0	0

Login Number: L08120101
Instrument ID: PE-ICP2

Date: 01/16/2008
Method: 6010B

Analyte	Wave Length	BE	CA	CD	CO	CR
ALUMINUM	396.15	0	0.274	0	0	0
ANTIMONY	206.84	0	0	0	0	19.8
ARSENIC	188.98	0	-0.00673	-0.0875	0	-3.78
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	-0.0105
BORON	249.68	0	0.0238	50.1	3.51	1.50
CADMIUM	228.80	0	0	0	-8.00	0
CALCIUM	227.55	0	0	0	174	-21.8
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	0.436
COPPER	327.39	0	-0.0137	0	0.380	-0.0467
IRON	239.56	0	0.0227	0	1.91	0.331
LEAD	220.35	0	-0.0188	0	0.666	-0.0700
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.638	0	0	0
MANGANESE	257.61	-1.04	-0.00790	-0.755	-0.0418	-0.110
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	1.20	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.117	0	-0.382	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	-0.0100	0	6.00	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	-0.0233	0	0	0.297
VANADIUM	290.88	0	0.00100	0	0	0
ZINC	206.20	0	0.000000100	0	0	-5.00

Login Number: L08120101
Instrument ID: PE-ICP2

Date: 01/16/2008
Method: 6010B

Analyte	Wave Length	CU	FE	K	LI	MG
ALUMINUM	396.15	0	0.108	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	-0.130	0	0	0
BARIUM	233.53	0	0.0211	0	0	0
BERYLLIUM	234.86	0	0.163	0	0	0
BORON	249.68	0	-4.02	0	0	0
CADMIUM	228.80	0	-0.00172	0	0	0
CALCIUM	227.55	-2.44	-8.15	0	0	0.104
CHROMIUM	267.72	0	-0.0180	0	0	0
COBALT	228.62	0	0	0	0	0
COPPER	327.39	0	-0.0128	0	0	0
IRON	239.56	0	0	0	0	0.0276
LEAD	220.35	0.341	0.0593	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.174	0	0	0
MANGANESE	257.61	-0.0457	-0.0659	-0.0181	-0.794	0.0147
MOLYBDENUM	202.03	0	-0.0342	0	11.9	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	3.00	0	0	0
SELENIUM	196.03	0	-0.700	0	0	-0.0113
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0.0717	-0.0248	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0.00120	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	-0.100	0	0	-0.0400
ZINC	206.20	-0.200	0.117	0	0	0

Login Number: L08120101
Instrument ID: PE-ICP2

Date: 01/16/2008
Method: 6010B

Analyte	Wave Length	MN	MO	NA	NI	PB
ALUMINUM	396.15	0	51.0	0	0	0
ANTIMONY	206.84	0	-17.4	0	0	0
ARSENIC	188.98	0	3.15	0	0	0
BARIUM	233.53	0	-0.740	0	0	0
BERYLLIUM	234.86	-0.131	-0.545	0	-0.00974	0
BORON	249.68	0	-2.08	0	0	0
CADMIUM	228.80	0	0	0	-0.0990	0
CALCIUM	227.55	0	-25.0	0	-1100	0
CHROMIUM	267.72	0.800	-0.00100	0	0	0
COBALT	228.62	0	-0.668	0	0.129	0
COPPER	327.39	0	-0.519	0	-0.0905	-0.0630
IRON	239.56	-1.38	0	0	0	0
LEAD	220.35	0.260	-2.35	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-5.58	0	0	0.0252
MANGANESE	257.61	0	-0.0482	-0.00916	-0.0340	-0.0413
MOLYBDENUM	202.03	-0.209	0	0	0.134	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	1.00	0	0
SELENIUM	196.03	1.11	0.199	0	-0.202	0
SILICON	251.61	0	12.9	0	0	0
SILVER	328.07	0.130	0.0781	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	-0.00100	1.20	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.578	0	0	0
ZINC	206.20	0	3.00	0	-0.200	-0.100

Login Number: L08120101
Instrument ID: PE-ICP2

Date: 01/16/2008
Method: 6010B

Analyte	Wave Length	SB	SE	SI	SN	SR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	-7.64	0
ARSENIC	188.98	0	0	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	0	0	0	0
CADMIUM	228.80	0	0	0	0	0
CALCIUM	227.55	0	0	2.79	0	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	0
COPPER	327.39	0	0	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	-0.0100	0	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-0.0924	0	0	0
MANGANESE	257.61	-0.0505	-0.0281	-0.185	-0.0445	-0.625
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	-0.0500	-0.0100	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0.200
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	-0.300	0	0	0	0

Login Number: L08120101
Instrument ID: PE-ICP2

Date: 01/16/2008
Method: 6010B

Analyte	Wave Length	TI	TL	V	ZN
ALUMINUM	396.15	0	0	0	0
ANTIMONY	206.84	0	0	-3.59	0
ARSENIC	188.98	0	0	0.0930	0
BARIUM	233.53	0	0	-2.27	0
BERYLLIUM	234.86	0	0	0	0
BORON	249.68	0	0	0	0
CADMIUM	228.80	0	0	0.0940	0
CALCIUM	227.55	0	0	11.3	0
CHROMIUM	267.72	0	0	-0.300	-0.0400
COBALT	228.62	2.07	0	0	0
COPPER	327.39	-1.79	0	-0.842	-0.0613
IRON	239.56	0	0	0	0
LEAD	220.35	-0.750	0	-0.150	0
LITHIUM	670.78	0	0	0	0
MAGNESIUM	279.08	0	0	-0.0280	0
MANGANESE	257.61	-0.227	-0.0414	-0.0601	-0.0553
MOLYBDENUM	202.03	0	0	-0.288	0
NICKEL	231.60	0	0.150	0	0
POTASSIUM	766.49	0	0	0	0
SELENIUM	196.03	0	0	0.593	0
SILICON	251.61	0	0	0	0
SILVER	328.07	0	0	-6.38	0
SODIUM	589.59	0	0	0	0
STRONTIUM	407.77	0	0	0	0
THALLIUM	190.80	-4.00	0	0	0
TIN	189.93	0	0	0	0
TITANIUM	334.94	0	0	0	0
VANADIUM	290.88	0	0	0	0
ZINC	206.20	0	0	-0.100	0

Login Number: L08120101

Date: 09/11/2008

Instrument ID: PE-ICP2

Method: 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	450.0
Antimony	10.00	36.0
Arsenic	10.00	9.0
Barium	10.00	9.0
Beryllium	10.00	1.8
Boron	10.00	18.0
Cadmium	10.00	2.7
Calcium	10.00	450.0
Chromium	10.00	45.0
Cobalt	10.00	45.0
Copper	10.00	45.0
Iron	10.00	450.0
Lead	10.00	90.0
Lithium	10.00	1.6
Magnesium	10.00	450.0
Manganese	10.00	27.0
Molybdenum	10.00	45.0
Nickel	10.00	45.0
Potassium	10.00	72.0
Selenium	10.00	45.0
Silicon	10.00	9.0
Silver	10.00	9.0
Sodium	10.00	180.0
Strontium	10.00	4.5
Thallium	10.00	45.0
Tin	10.00	45.0
Titanium	10.00	45.0
Vanadium	10.00	45.0
Zinc	10.00	45.0

Comments:

All analytes passed acceptance criteria at the specified concentration.

2.2.2 Metals ICP-MS Data

2.2.2.1 Summary Data

LABORATORY REPORT

00086958

L08120101

12/15/08 11:05

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta, OH 45750
(740) 373-4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: LONGHORN AAP KARNACK TX

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
03WW01-112408	L08120101-08	6020	1	04-DEC-08
03WW01-112408	L08120101-08	6020	10	04-DEC-08
35AWW06-120308	L08120101-09	6020	1	04-DEC-08
35AWW06-120308	L08120101-09	6020	100	04-DEC-08
49WW06-120308	L08120101-10	6020	100	04-DEC-08
49WW06-120308	L08120101-10	6020	1	04-DEC-08
35AWW08-112408	L08120101-11	6020	100	04-DEC-08
35AWW08-112408	L08120101-11	6020	1	04-DEC-08
35AWW07-112408	L08120101-12	6020	1	04-DEC-08
35AWW02-112608	L08120101-13	6020	10	04-DEC-08
35AWW02-112608	L08120101-13	6020	1	04-DEC-08
35AWW02-112608-FD	L08120101-14	6020	10	04-DEC-08
35AWW02-112608-FD	L08120101-14	6020	1	04-DEC-08
LHSMW04-112508	L08120101-15	6020	20	04-DEC-08
LHSMW04-112508	L08120101-15	6020	1	04-DEC-08



Report Number: **L08120101**Report Date : **December 15, 2008**

00086959

Sample Number: **L08120101-08**
 Client ID: **03WW01-112408**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **11/24/2008 17:05**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 13:13**
 File ID: **EL.120908.131344**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.0414		0.00100	0.000250
Barium, Total	7440-39-3	0.0699		0.00300	0.000500
Cadmium, Total	7440-43-9	0.000486	J	0.000500	0.000125
Chromium, Total	7440-47-3	0.00523		0.00200	0.000500
Copper, Total	7440-50-8	0.00404		0.00200	0.000500
Lead, Total	7439-92-1	0.00575		0.000500	0.000250
Nickel, Total	7440-02-0	0.0236		0.00400	0.00100
Antimony, Total	7440-36-0	0.00131		0.00100	0.000250
Selenium, Total	7782-49-2	0.0448		0.00100	0.000500
Thallium, Total	7440-28-0	0.000139	J	0.000200	0.0000500

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-08**
Client ID: **03WW01-112408**
Matrix: **Water**
Workgroup Number: **WG289904**
Collect Date: **11/24/2008 17:05**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **10**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **12/05/2008 07:25**
Cal Date: **12/09/2008 10:49**
Run Date: **12/09/2008 13:47**
File ID: **EL.120908.134746**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Manganese, Total	7439-96-5	1.61		0.0200	0.00500

Sample Number: **L08120101-09**
 Client ID: **35AWW06-120308**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **12/03/2008 14:25**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 12:34**
 File ID: **EL.120908.123430**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.0519		0.00100	0.000250
Barium, Total	7440-39-3	0.105		0.00300	0.000500
Cadmium, Total	7440-43-9	0.00117		0.000500	0.000125
Chromium, Total	7440-47-3	0.00636		0.00200	0.000500
Copper, Total	7440-50-8	0.00678		0.00200	0.000500
Lead, Total	7439-92-1	0.00597		0.000500	0.000250
Nickel, Total	7440-02-0	0.0569		0.00400	0.00100
Antimony, Total	7440-36-0	0.00185		0.00100	0.000250
Selenium, Total	7782-49-2	0.0527		0.00100	0.000500
Thallium, Total	7440-28-0	0.000327		0.000200	0.0000500

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-09**
Client ID: **35AWW06-120308**
Matrix: **Water**
Workgroup Number: **WG289904**
Collect Date: **12/03/2008 14:25**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **100**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **12/05/2008 07:25**
Cal Date: **12/09/2008 10:49**
Run Date: **12/09/2008 13:20**
File ID: **EL.120908.132014**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Manganese, Total	7439-96-5	1.24		0.200	0.0500

Sample Number: **L08120101-10**
Client ID: **49WW06-120308**
Matrix: **Water**
Workgroup Number: **WG289904**
Collect Date: **12/03/2008 12:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **100**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **12/05/2008 07:25**
Cal Date: **12/09/2008 10:49**
Run Date: **12/09/2008 13:25**
File ID: **EL.120908.132537**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Manganese, Total	7439-96-5	2.11		0.200	0.0500

Report Number: **L08120101**Report Date : **December 15, 2008**

00086964

Sample Number: **L08120101-10**
 Client ID: **49WW06-120308**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **12/03/2008 12:40**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 12:39**
 File ID: **EL.120908.123952**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.0483		0.00100	0.000250
Barium, Total	7440-39-3	0.246		0.00300	0.000500
Cadmium, Total	7440-43-9	0.000669		0.000500	0.000125
Chromium, Total	7440-47-3	0.00673		0.00200	0.000500
Copper, Total	7440-50-8	0.00530		0.00200	0.000500
Lead, Total	7439-92-1	0.00700		0.000500	0.000250
Nickel, Total	7440-02-0	0.0363		0.00400	0.00100
Antimony, Total	7440-36-0	0.00181		0.00100	0.000250
Selenium, Total	7782-49-2	0.0603		0.00100	0.000500
Thallium, Total	7440-28-0	0.000321		0.000200	0.0000500

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120101-11**
Client ID: **35AWW08-112408**
Matrix: **Water**
Workgroup Number: **WG289904**
Collect Date: **11/24/2008 12:25**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **100**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **12/05/2008 07:25**
Cal Date: **12/09/2008 10:49**
Run Date: **12/09/2008 13:42**
File ID: **EL.120908.134223**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Manganese, Total	7439-96-5	5.32		0.200	0.0500

Sample Number: **L08120101-11**
 Client ID: **35AWW08-112408**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **11/24/2008 12:25**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 12:45**
 File ID: **EL.120908.124516**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.0133		0.00100	0.000250
Barium, Total	7440-39-3	0.148		0.00300	0.000500
Cadmium, Total	7440-43-9	0.00227		0.000500	0.000125
Chromium, Total	7440-47-3	0.00400		0.00200	0.000500
Copper, Total	7440-50-8	0.00422		0.00200	0.000500
Lead, Total	7439-92-1	0.00243		0.000500	0.000250
Nickel, Total	7440-02-0	0.114		0.00400	0.00100
Antimony, Total	7440-36-0		U	0.00100	0.000250
Selenium, Total	7782-49-2	0.0575		0.00100	0.000500
Thallium, Total	7440-28-0	0.000180	J	0.000200	0.0000500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-12**
 Client ID: **35AWW07-112408**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **11/24/2008 09:50**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 12:50**
 File ID: **EL.120908.125039**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.0338		0.00100	0.000250
Barium, Total	7440-39-3	0.0971		0.00300	0.000500
Cadmium, Total	7440-43-9	0.000222	J	0.000500	0.000125
Chromium, Total	7440-47-3	0.00601		0.00200	0.000500
Copper, Total	7440-50-8	0.00362		0.00200	0.000500
Lead, Total	7439-92-1	0.00705		0.000500	0.000250
Manganese, Total	7439-96-5	0.150		0.00200	0.000500
Nickel, Total	7440-02-0	0.00553		0.00400	0.00100
Antimony, Total	7440-36-0	0.00132		0.00100	0.000250
Selenium, Total	7782-49-2	0.00507		0.00100	0.000500
Thallium, Total	7440-28-0	0.000107	J	0.000200	0.0000500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-13**
Client ID: **35AWW02-112608**
Matrix: **Water**
Workgroup Number: **WG289904**
Collect Date: **11/26/2008 09:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **10**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **12/05/2008 07:25**
Cal Date: **12/09/2008 10:49**
Run Date: **12/09/2008 13:54**
File ID: **EL.120908.135448**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nickel, Total	7440-02-0	0.280		0.0400	0.0100

Sample Number: **L08120101-13**
 Client ID: **35AWW02-112608**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **11/26/2008 09:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 12:57**
 File ID: **EL.120908.125741**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.0583		0.00100	0.000250
Barium, Total	7440-39-3	0.228		0.00300	0.000500
Cadmium, Total	7440-43-9	0.000432	J	0.000500	0.000125
Chromium, Total	7440-47-3	0.0389		0.00200	0.000500
Copper, Total	7440-50-8	0.0149		0.00200	0.000500
Lead, Total	7439-92-1	0.0102		0.000500	0.000250
Manganese, Total	7439-96-5	0.165		0.00200	0.000500
Antimony, Total	7440-36-0	0.00253		0.00100	0.000250
Selenium, Total	7782-49-2	0.0109		0.00100	0.000500
Thallium, Total	7440-28-0	0.000144	J	0.000200	0.0000500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-14**
Client ID: **35AWW02-112608-FD**
Matrix: **Water**
Workgroup Number: **WG289904**
Collect Date: **11/26/2008 09:35**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **10**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **12/05/2008 07:25**
Cal Date: **12/09/2008 10:49**
Run Date: **12/09/2008 14:00**
File ID: **EL.120908.140009**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nickel, Total	7440-02-0	0.260		0.0400	0.0100

Sample Number: **L08120101-14**
 Client ID: **35AWW02-112608-FD**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **11/26/2008 09:35**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 13:03**
 File ID: **EL.120908.130302**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.00632		0.00100	0.000250
Barium, Total	7440-39-3	0.178		0.00300	0.000500
Cadmium, Total	7440-43-9	0.000186	J	0.000500	0.000125
Chromium, Total	7440-47-3	0.0363		0.00200	0.000500
Copper, Total	7440-50-8	0.0129		0.00200	0.000500
Lead, Total	7439-92-1	0.00104		0.000500	0.000250
Manganese, Total	7439-96-5	0.159		0.00200	0.000500
Antimony, Total	7440-36-0		U	0.00100	0.000250
Selenium, Total	7782-49-2	0.00851		0.00100	0.000500
Thallium, Total	7440-28-0	0.0000775	J	0.000200	0.0000500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120101-15**
Client ID: **LHSMW04-112508**
Matrix: **Water**
Workgroup Number: **WG289904**
Collect Date: **11/25/2008 11:45**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3015**
Analytical Method: **6020**
Analyst: **JYH**
Dilution: **20**
Units: **mg/L**

Instrument: **ELAN-ICP**
Prep Date: **12/05/2008 07:25**
Cal Date: **12/09/2008 10:49**
Run Date: **12/09/2008 14:05**
File ID: **EL.120908.140530**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Chromium, Total	7440-47-3	0.451		0.0400	0.0100
Manganese, Total	7439-96-5	0.702		0.0400	0.0100
Nickel, Total	7440-02-0	1.99		0.0800	0.0200

Sample Number: **L08120101-15**
 Client ID: **LHSMW04-112508**
 Matrix: **Water**
 Workgroup Number: **WG289904**
 Collect Date: **11/25/2008 11:45**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **3015**
 Analytical Method: **6020**
 Analyst: **JYH**
 Dilution: **1**
 Units: **mg/L**

Instrument: **ELAN-ICP**
 Prep Date: **12/05/2008 07:25**
 Cal Date: **12/09/2008 10:49**
 Run Date: **12/09/2008 13:08**
 File ID: **EL.120908.130823**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Silver, Total	7440-22-4		U	0.00100	0.000250
Arsenic, Total	7440-38-2	0.0121		0.00100	0.000250
Barium, Total	7440-39-3	0.0584		0.00300	0.000500
Cadmium, Total	7440-43-9	0.000573		0.000500	0.000125
Copper, Total	7440-50-8	0.00961		0.00200	0.000500
Lead, Total	7439-92-1		U	0.000500	0.000250
Antimony, Total	7440-36-0		U	0.00100	0.000250
Selenium, Total	7782-49-2	0.0535		0.00100	0.000500
Thallium, Total	7440-28-0	0.000157	J	0.000200	0.0000500

U Not detected at or above adjusted sample detection limit
 J The analyte was positively identified, but the quantitation was below the RL

2.2.2.2 QC Summary Data

Example 6020 Calculations
Perkin Elmer ELAN 6100

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and three standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (ug/L)

Vf = Final volume

Vi = Initial volume

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in (ug/L)

Example:

0.1

100

40

1

0.25

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (ug/L)

Vf = Final volume

Vi = Initial volume

D = Dilution factor as a multiplier (10X = 10)

Cx = Concentration of element in (ug/kg)

Example:

0.1

200

0.5

1

40

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:

Cx = Concentration calculated as received (wet basis)

Px = Percent solids of sample (%wt)

$Cdry$ = Concentration calculated as dry weight (ug/kg)

Example:

40

80

50

50 ug/kg = 0.050 mg/kg

Perkin Elmer ELAN ICP/MS**STANDARDS KEY****QC Std 1 - ICV****QC Std 2 - ICB****QC Std 3 - CRI - Soil****QC Std 4 - CRI - Water****QC Std 5 - ICSA****QC Std 6 - ICSAB****QC Std 7 - CCV****QC Std 8 - CCB****Calibration Solutions**

Analyte	Stock Conc. (mg/L)	S1 (mg/L)	S2 (mg/L)	S3 (mg/L)	S4 (mg/L)
Al	10	0	0.0004	0.05	0.1
Sb	10	0	0.0004	0.05	0.1
As	10	0	0.0004	0.05	0.1
Ba	10	0	0.0004	0.05	0.1
Be	10	0	0.0004	0.05	0.1
Ca	1000	0	0.04	5	10
Cd	10	0	0.0004	0.05	0.1
Cr	10	0	0.0004	0.05	0.1
Co	10	0	0.0004	0.05	0.1
Cu	10	0	0.0004	0.05	0.1
Fe	1000	0	0.04	5	10
Pb	10	0	0.0004	0.05	0.1
Mg	1000	0	0.04	5	10
Mn	10	0	0.0004	0.05	0.1
Ni	10	0	0.0004	0.05	0.1
K	1000	0	0.04	5	10
Se	10	0	0.0004	0.05	0.1
Ag	10	0	0.0004	0.05	0.1
Na	1000	0	0.04	5	10
Tl	10	0	0.0004	0.05	0.1
V	10	0	0.0004	0.05	0.1
Zn	10	0	0.0004	0.05	0.1

Workgroup: WG289666
Analyst: VC
Spike Analyst: VC
Run Date: 12/05/2008 07:25
Method: 3015

SOP: ME407 Revision 10
Spike Solution: STD27101
Spike Witness: REK
HNO3 Lot #: COA13530
Digest tubes Lot #: COA13407

SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
WG289666-02	BLANK	1	40 mL	100 mL	206.649 g	206.64 g		
WG289666-03	LCS	1	40 mL	100 mL	206.839 g	206.843 g	.25 mL	
L08120083-01	SAMP	1	40 mL	100 mL	206.341 g	206.337 g		12/12/08
L08120083-02	SAMP	1	40 mL	100 mL	207.933 g	207.94 g		12/12/08
L08120083-03	SAMP	1	40 mL	100 mL	205.829 g	205.829 g		12/12/08
L08120083-04	SAMP	1	40 mL	100 mL	206.734 g	206.723 g		12/12/08
L08120101-08	SAMP	1	40 mL	100 mL	205.321 g	205.325 g		12/11/08
L08120101-09	SAMP	1	40 mL	100 mL	207.047 g	207.043 g		12/11/08
L08120101-10	SAMP	1	40 mL	100 mL	206.619 g	206.608 g		12/11/08
L08120101-11	SAMP	1	40 mL	100 mL	207.535 g	207.52 g		12/11/08
L08120101-12	SAMP	1	40 mL	100 mL	207.271 g	207.271 g		12/11/08
L08120101-13	SAMP	1	40 mL	100 mL	205.738 g	205.73 g		12/11/08
L08120101-14	SAMP	1	40 mL	100 mL	206.789 g	206.776 g		12/11/08
L08120101-15	SAMP	1	40 mL	100 mL	206.6 g	206.583 g		12/11/08
WG289666-01	REF	2	40 mL	100 mL	207.161 g	207.121 g		
L08120109-01	RS01	2	40 mL	100 mL	207.161 g	207.121 g		12/15/08
WG289666-05	MS	2	40 mL	100 mL	207.564 g	207.555 g	.25 mL	
L08120109-02	MS01	2	40 mL	100 mL	207.564 g	207.555 g	.25 mL	12/15/08
WG289666-06	MSD	2	40 mL	100 mL	206.957 g	206.948 g	.25 mL	
L08120109-03	SD01	2	40 mL	100 mL	206.957 g	206.948 g	.25 mL	12/15/08
L08120120-01	SAMP	1	40 mL	100 mL	206.452 g	206.436 g		12/15/08
L08120120-02	SAMP	1	40 mL	100 mL	205.904 g	205.886 g		12/15/08
L08120120-03	SAMP	1	40 mL	100 mL	207.585 g	207.562 g		12/15/08
L08120120-04	SAMP	1	40 mL	100 mL	206.54 g	206.527 g		12/15/08
WG289666-04	DUP	1	40 mL	100 mL	210.045 g	210.043 g		

Analyst: Vicki Collier

Reviewer: REK

00086978

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 120908A.REP
 Analyst1: JYH Analyst2: N/A
 Method: 6020 SOP: ME700 Rev: 4
 Maintenance Log ID: 25989

Calibration Std: STD30127 ICV/CCV Std: STD29884 Post Spike: STD27580
 ICSA: STD30126 ICSAB: STD30000

Workgroups: 289904,289975

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	EL.120908.102628	Blank	Blank		1		12/09/08 10:26
2	EL.120908.103208	WG290093-01	Calibration Point		1		12/09/08 10:32
3	EL.120908.103748	WG290093-02	Calibration Point		1		12/09/08 10:37
4	EL.120908.104329	WG290093-03	Calibration Point		1		12/09/08 10:43
5	EL.120908.104911	WG290093-04	Calibration Point		1		12/09/08 10:49
6	EL.120908.105453	WG290093-05	Initial Calibration Verification		1		12/09/08 10:54
7	EL.120908.110035	WG290093-06	Initial Calib Blank		1		12/09/08 11:00
8	EL.120908.110617	WG290093-07	CRQL Check Solid		1		12/09/08 11:06
9	EL.120908.111203	WG290093-08	CRQL Check Water		1		12/09/08 11:12
10	EL.120908.111748	WG290093-09	Interference Check		1		12/09/08 11:17
11	EL.120908.112332	WG290093-10	Interference Check		1		12/09/08 11:23
12	EL.120908.112915	WG290093-11	CCV		1		12/09/08 11:29
13	EL.120908.113457	WG290093-12	CCB		1		12/09/08 11:34
14	EL.120908.114016	WG289666-02	Method/Prep Blank	40/100	1		12/09/08 11:40
15	EL.120908.114536	WG289666-03	Laboratory Control Sample	40/100	1		12/09/08 11:45
16	EL.120908.115057	WG289666-01	Reference Sample		1	L08120109-01	12/09/08 11:50
17	EL.120908.115618	WG289666-04	Duplicate	40/100	1		12/09/08 11:56
18	EL.120908.120139	WG289666-05	Matrix Spike	40/100	1	L08120109-02	12/09/08 12:01
19	EL.120908.120701	WG289666-06	Matrix Spike Duplicate	40/100	1	L08120109-03	12/09/08 12:07
20	EL.120908.121222	WG289904-01	Post Digestion Spike		1		12/09/08 12:12
21	EL.120908.121745	WG289904-02	Serial Dilution		5		12/09/08 12:17
22	EL.120908.122327	WG290093-13	CCV		1		12/09/08 12:23
23	EL.120908.122908	WG290093-14	CCB		1		12/09/08 12:29
24	EL.120908.123430	L08120101-09	35AWW06-120308	40/100	1	WG289713-01	12/09/08 12:34
25	EL.120908.123952	L08120101-10	49WW06-120308	40/100	1		12/09/08 12:39
26	EL.120908.124516	L08120101-11	35AWW08-112408	40/100	1		12/09/08 12:45
27	EL.120908.125039	L08120101-12	35AWW07-112408	40/100	1		12/09/08 12:50
28	EL.120908.125741	L08120101-13	35AWW02-112608	40/100	1		12/09/08 12:57
29	EL.120908.130302	L08120101-14	35AWW02-112608-FD	40/100	1		12/09/08 13:03
30	EL.120908.130823	L08120101-15	LHSMW04-112508	40/100	1		12/09/08 13:08
31	EL.120908.131344	L08120101-08	03WW01-112408	40/100	1	WG289708-01	12/09/08 13:13
32	EL.120908.132014	L08120101-09	35AWW06-120308	40/100	100	WG289713-01	12/09/08 13:20
33	EL.120908.132537	L08120101-10	49WW06-120308	40/100	100		12/09/08 13:25
34	EL.120908.133120	WG290093-15	CCV		1		12/09/08 13:31
35	EL.120908.133701	WG290093-16	CCB		1		12/09/08 13:37
36	EL.120908.134223	L08120101-11	35AWW08-112408	40/100	100		12/09/08 13:42
37	EL.120908.134746	L08120101-08	03WW01-112408	40/100	10	WG289708-01	12/09/08 13:47

Page: 1 Approved: December 10, 2008

Maren Beery



00086979

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 120908A.REP
 Analyst1: JYH Analyst2: N/A
 Method: 6020 SOP: ME700 Rev: 4
 Maintenance Log ID: 25989

Calibration Std: STD30127 ICV/CCV Std: STD29884 Post Spike: STD27580
 ICSA: STD30126 ICSAB: STD30000

Workgroups: 289904,289975

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	EL.120908.135448	L08120101-13	35AWW02-112608	40/100	10		12/09/08 13:54
39	EL.120908.140009	L08120101-14	35AWW02-112608-FD	40/100	10		12/09/08 14:00
40	EL.120908.140530	L08120101-15	LHSMW04-112508	40/100	20		12/09/08 14:05
41	EL.120908.141112	WG290093-17	CCV		1		12/09/08 14:11
42	EL.120908.141654	WG290093-18	CCB		1		12/09/08 14:16
43	EL.120908.142215	L08120083-02	FLUME	40/100	1		12/09/08 14:22
44	EL.120908.142737	L08120083-03	202 EFF	40/100	1		12/09/08 14:27
45	EL.120908.143259	L08120083-04	202 EFF	40/100	1		12/09/08 14:32
46	EL.120908.144003	L08120083-01	FLUME	40/100	1		12/09/08 14:40
47	EL.120908.144534	L08120120-01	201 EFF	40/100	1		12/09/08 14:45
48	EL.120908.145057	L08120120-02	201 EFF	40/100	1		12/09/08 14:50
49	EL.120908.145621	L08120120-03	EMERGANCY BASIN	40/100	1	WG290055-04	12/09/08 14:56
50	EL.120908.150144	L08120120-04	EMERGANCY BASIN	40/100	1		12/09/08 15:01
51	EL.120908.150728	WG290093-19	CCV		1		12/09/08 15:07
52	EL.120908.151309	WG290093-20	CCB		1		12/09/08 15:13
53	EL.120908.152213	WG289862-03	Method/Prep Blank	.5/200	1		12/09/08 15:22
54	EL.120908.152734	WG289862-04	Laboratory Control Sample	.5/200	1		12/09/08 15:27
55	EL.120908.153255	WG289862-01	Reference Sample		1	L08120129-03	12/09/08 15:32
56	EL.120908.153817	WG289862-05	Matrix Spike	.513/200	1	L08120129-04	12/09/08 15:38
57	EL.120908.154339	WG289862-06	Matrix Spike Duplicate	.513/200	1	L08120129-05	12/09/08 15:43
58	EL.120908.154901	L08120129-01	MR08-SS067-08D	.52/200	1		12/09/08 15:49
59	EL.120908.155424	L08120129-02	MR08-ISO67-6-7-08D	.51/200	1		12/09/08 15:54
60	EL.120908.155947	WG289975-01	Post Digestion Spike		1		12/09/08 15:59
61	EL.120908.160510	WG289975-02	Serial Dilution		5		12/09/08 16:05
62	EL.120908.161034	WG289862-02	Reference Sample		1	L08120129-06	12/09/08 16:10
63	EL.120908.161618	WG290093-21	CCV		1		12/09/08 16:16
64	EL.120908.162159	WG290093-22	CCB		1		12/09/08 16:21
65	EL.120908.162721	WG289862-07	Matrix Spike	.517/200	1	L08120129-07	12/09/08 16:27
66	EL.120908.163425	WG289862-08	Matrix Spike Duplicate	.517/200	1	L08120129-08	12/09/08 16:34
67	EL.120908.163948	L08120129-09	MR08-SS069-08D	.5/200	1		12/09/08 16:39
68	EL.120908.164509	L08120129-10	MR08-SS069D-08D	.508/200	1		12/09/08 16:45
69	EL.120908.165031	L08120129-11	MR08-ISO69-6-7-08D	.51/200	1		12/09/08 16:50
70	EL.120908.165553	L08120129-12	MR08-ISO69D-6-7-08D	.513/200	1		12/09/08 16:55
71	EL.120908.170115	L08120129-13	MR08-SS070-08D	.511/200	1		12/09/08 17:01
72	EL.120908.170638	L08120129-14	MR08-ISO70-8-9-08D	.505/200	1		12/09/08 17:06
73	EL.120908.171201	L08120129-15	MR08-SS071-08D	.501/200	1		12/09/08 17:12
74	EL.120908.171724	L08120129-16	MR08-ISO71-6-7-08D	.506/200	1		12/09/08 17:17

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Maren Beery



00086980

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ELAN-ICP Dataset: 120908A.REP
 Analyst1: JYH Analyst2: N/A
 Method: 6020 SOP: ME700 Rev: 4
 Maintenance Log ID: 25989

Calibration Std: STD30127 ICV/CCV Std: STD29884 Post Spike: STD27580
 ICSA: STD30126 ICSAB: STD30000
 Workgroups: 289904,289975

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
75	EL.120908.172308	WG290093-23	CCV		1		12/09/08 17:23
76	EL.120908.172849	WG290093-24	CCB		1		12/09/08 17:28
77	EL.120908.173411	L08120129-17	MR08-SS072-08D	.502/200	1		12/09/08 17:34
78	EL.120908.173935	L08120129-18	MR08-IS072-6-7-08D	.519/200	1		12/09/08 17:39
79	EL.120908.174459	L08120129-19	MR08-SS073-08D	.502/200	1		12/09/08 17:44
80	EL.120908.175024	L08120129-20	MR08-IS073-6-7-08D	.513/200	1		12/09/08 17:50
81	EL.120908.175547	WG289862-01	Reference Sample		10	L08120129-03	12/09/08 17:55
82	EL.120908.180109	WG289862-05	Matrix Spike	.513/200	10	L08120129-04	12/09/08 18:01
83	EL.120908.180631	WG289862-06	Matrix Spike Duplicate	.513/200	10	L08120129-05	12/09/08 18:06
84	EL.120908.181153	L08120129-09	MR08-SS069-08D		10		12/09/08 18:11
85	EL.120908.181716	L08120129-10	MR08-SS069D-08D		10		12/09/08 18:17
86	EL.120908.182239	L08120129-13	MR08-SS070-08D		10		12/09/08 18:22
87	EL.120908.182822	WG290093-25	CCV		1		12/09/08 18:28
88	EL.120908.183403	WG290093-26	CCB		1		12/09/08 18:34

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Maren Beery



Microbac Laboratories Inc.

Data Checklist

Date: 09-DEC-2008

Analyst: JYH

Analyst: NA

Method: 6020

Instrument: ELAN

Curve Workgroup: 290093

Runlog ID: 25646

Analytical Workgroups: 289904,289975

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	X
CRI	X
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	X
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	
Case Narrative	083,101,109,120,129
Client Forms	X
Level X	
Level 3	129
Level 4	
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	JYH
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
10-DEC-2008

J. J. H.

Secondary Reviewer:
10-DEC-2008

Maren Berry

Analytical Method:6020

AAB#:WG289904

Login Number:L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
35AWW07-112408	11/24/08	12/04/08	12/05/08	180	10.9	12/09/08	180	4.23	
35AWW02-112608-FD	11/26/08	12/04/08	12/05/08	180	8.91	12/09/08	180	4.27	
35AWW02-112608	11/26/08	12/04/08	12/05/08	180	8.91	12/09/08	180	4.23	
35AWW02-112608	11/26/08	12/04/08	12/05/08	180	8.91	12/09/08	180	4.27	
LHSMW04-112508	11/25/08	12/04/08	12/05/08	180	9.82	12/09/08	180	4.24	
35AWW08-112408	11/24/08	12/04/08	12/05/08	180	10.8	12/09/08	180	4.22	
35AWW08-112408	11/24/08	12/04/08	12/05/08	180	10.8	12/09/08	180	4.26	
03WW01-112408	11/24/08	12/04/08	12/05/08	180	10.6	12/09/08	180	4.27	
35AWW02-112608-FD	11/26/08	12/04/08	12/05/08	180	8.91	12/09/08	180	4.23	
03WW01-112408	11/24/08	12/04/08	12/05/08	180	10.6	12/09/08	180	4.24	
35AWW06-120308	12/03/08	12/04/08	12/05/08	180	1.71	12/09/08	180	4.25	
49WW06-120308	12/03/08	12/04/08	12/05/08	180	1.78	12/09/08	180	4.22	
49WW06-120308	12/03/08	12/04/08	12/05/08	180	1.78	12/09/08	180	4.25	
35AWW06-120308	12/03/08	12/04/08	12/05/08	180	1.71	12/09/08	180	4.21	
LHSMW04-112508	11/25/08	12/04/08	12/05/08	180	9.82	12/09/08	180	4.28	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

METHOD BLANK SUMMARY

Login Number: <u>L08120101</u>	Work Group: <u>WG289904</u>
Blank File ID: <u>EL.120908.114016</u>	Blank Sample ID: <u>WG289666-02</u>
Prep Date: <u>12/05/08 07:25</u>	Instrument ID: <u>ELAN-ICP</u>
Analyzed Date: <u>12/09/08 11:40</u>	Method: <u>6020</u>
Analyst: <u>JYH</u>	

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289666-03	EL.120908.114536	12/09/08 11:45	01
DUP	WG289666-04	EL.120908.115618	12/09/08 11:56	01
35AWW06-120308	L08120101-09	EL.120908.123430	12/09/08 12:34	01
49WW06-120308	L08120101-10	EL.120908.123952	12/09/08 12:39	01
35AWW08-112408	L08120101-11	EL.120908.124516	12/09/08 12:45	01
35AWW07-112408	L08120101-12	EL.120908.125039	12/09/08 12:50	01
35AWW02-112608	L08120101-13	EL.120908.125741	12/09/08 12:57	01
35AWW02-112608-FD	L08120101-14	EL.120908.130302	12/09/08 13:03	01
LHSMW04-112508	L08120101-15	EL.120908.130823	12/09/08 13:08	01
03WW01-112408	L08120101-08	EL.120908.131344	12/09/08 13:13	01
35AWW06-120308	L08120101-09	EL.120908.132014	12/09/08 13:20	DL01
49WW06-120308	L08120101-10	EL.120908.132537	12/09/08 13:25	DL01
35AWW08-112408	L08120101-11	EL.120908.134223	12/09/08 13:42	DL01
03WW01-112408	L08120101-08	EL.120908.134746	12/09/08 13:47	DL01
35AWW02-112608	L08120101-13	EL.120908.135448	12/09/08 13:54	DL01
35AWW02-112608-FD	L08120101-14	EL.120908.140009	12/09/08 14:00	DL01
LHSMW04-112508	L08120101-15	EL.120908.140530	12/09/08 14:05	DL01

Report Name: BLANK_SUMMARY
 PDF File ID: 1272561
 Report generated 12/10/2008 10:17



Login Number: L08120101 Prep Date: 12/05/08 07:25 Sample ID: WG289666-02
Instrument ID: ELAN-ICP Run Date: 12/09/08 11:40 Prep Method: 3015
File ID: EL.120908.114016 Analyst: JYH Method: 6020
Workgroup (AAB#): WG289904 Matrix: Water Units: mg/L
Contract #: DACA56-94-D-0020 Cal ID: ELAN-I - 09-DEC-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Silver, Total	0.000250	0.00100	0.000250	1	U
Arsenic, Total	0.000250	0.00100	0.000250	1	U
Barium, Total	0.000500	0.00300	0.000500	1	U
Cadmium, Total	0.000125	0.000500	0.000125	1	U
Chromium, Total	0.000500	0.00200	0.000500	1	U
Copper, Total	0.000500	0.00200	0.000500	1	U
Lead, Total	0.000250	0.000500	0.000250	1	U
Manganese, Total	0.000500	0.00200	0.000500	1	U
Nickel, Total	0.00100	0.00400	0.00100	1	U
Antimony, Total	0.000250	0.00100	0.000250	1	U
Selenium, Total	0.000500	0.00100	0.000500	1	U
Thallium, Total	0.0000500	0.000200	0.0000500	1	U

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1272562
10-DEC-2008 10:17



Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG289666-03
Instrument ID: ELAN-ICP Run Time: 11:45 Prep Method: 3015
File ID: EL.120908.114536 Analyst: JYH Method: 6020
Workgroup (AAB#): WG289904 Matrix: Water Units: mg/L
QC Key: STD Lot#: STD27101 Cal ID: ELAN-I - 09-DEC-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Silver, Total	0.0625	0.0644	103	80 - 120	
Arsenic, Total	0.0625	0.0619	99.1	80 - 120	
Barium, Total	0.0625	0.0627	100	80 - 120	
Cadmium, Total	0.0625	0.0636	102	80 - 120	
Chromium, Total	0.0625	0.0634	101	80 - 120	
Copper, Total	0.0625	0.0655	105	80 - 120	
Lead, Total	0.0625	0.0628	100	80 - 120	
Manganese, Total	0.0625	0.0643	103	80 - 120	
Nickel, Total	0.0625	0.0642	103	80 - 120	
Antimony, Total	0.0625	0.0652	104	80 - 120	
Selenium, Total	0.0625	0.0631	101	80 - 120	
Thallium, Total	0.0625	0.0631	101	80 - 120	

Loginnum: L08120101 Cal ID: ELAN-ICP - Worknum: WG289904
Instrument ID: ELAN-ICP Contract #: DACA56-94-D-0020 Method: 6020
Parent ID: WG289666-01 File ID: EL.120908.115057 Dil: 1 Matrix: WATER
Sample ID: WG289666-05 MS File ID: EL.120908.120139 Dil: 1 Units: mg/L
Sample ID: WG289666-06 MSD File ID: EL.120908.120701 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Antimony	0.000572	0.0625	0.0670	106	0.0625	0.0651	103	2.86	75 - 125	20	
Arsenic	0.00286	0.0625	0.0631	96.3	0.0625	0.0610	93.1	3.24	75 - 125	20	
Barium	0.0177	0.0625	0.0809	101	0.0625	0.0781	96.7	3.56	75 - 125	20	
Cadmium	ND	0.0625	0.0621	99.3	0.0625	0.0601	96.1	3.24	75 - 125	20	
Chromium	0.00265	0.0625	0.0704	108	0.0625	0.0680	105	3.50	75 - 125	20	
Copper	ND	0.0625	0.0677	108	0.0625	0.0655	105	3.26	75 - 125	20	
Lead	ND	0.0625	0.0661	106	0.0625	0.0649	104	1.76	75 - 125	20	
Manganese	0.00420	0.0625	0.0722	109	0.0625	0.0694	104	3.98	75 - 125	20	
Nickel	0.00178	0.0625	0.0677	105	0.0625	0.0650	101	4.08	75 - 125	20	
Selenium	0.00130	0.0625	0.0569	89.0	0.0625	0.0552	86.2	3.09	75 - 125	20	
Silver	ND	0.0625	0.0647	104	0.0625	0.0628	101	2.98	75 - 125	20	
Thallium	0.0000798	0.0625	0.0668	107	0.0625	0.0657	105	1.55	75 - 125	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

Microbac Laboratories Inc.
Serial Dilution Report

Login: L08120101 **Worknum:** WG289904
Instrument: ELAN-ICP **Method:** 6020
Serial Dil: WG289904-02 **File ID:** EL.120908.121745 **Dil:** 5 **Units:** ug/L
Sample: L08120109-01 **File ID:** EL.120908.115057 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Antimony	.229	F	ND	U		
Arsenic	1.14	X	1.165	F	2.19	
Barium	7.07	X	6.95	X	1.70	
Cadmium	ND	U	ND	U		
Chromium	1.06	X	1.17	F	10.40	
Copper	ND	U	ND	U		
Lead	ND	U	ND	U		
Manganese	1.68	X	1.645	F	2.08	
Nickel	.713	F	ND	U		
Selenium	.522	X	ND	U		
Silver	ND	U	ND	U		
Thallium	.0319	F	ND	U		

U = Result is below MDL.

F = Result is greater than or equal to MDL and less than the RL.

X = Result is greater than or equal to RL and less than 100 times the MDL.

E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 100 times the MDL.

SERIAL_DIL - Modified 09/22/2008

PDF File ID: 1272558

12/10/2008 10:17



Sample Login ID: L08120101
Instrument ID: ELAN-ICP
Post Spike ID: WG289904-01
Sample ID: L08120109-01

Worknum: WG289904
Method: 6020
Units: ug/L
Matrix: Water
File ID: EL.120908.121222 Dil: 1
File ID: EL.120908.115057 Dil: 1

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
ANTIMONY	55.2		0.229	F	50	109.9	75 - 125	
ARSENIC	51.3		1.14		50	100.4	75 - 125	
BARIUM	58.2		7.07		50	102.2	75 - 125	
CADMIUM	51.6		0	.05	50	103.3	75 - 125	
CHROMIUM	57.4		1.06		50	112.7	75 - 125	
COPPER	55.4		0	.2	50	110.9	75 - 125	
LEAD	55.6		0	.1	50	111.2	75 - 125	
MANGANESE	57.1		1.68		50	110.9	75 - 125	
NICKEL	55.1		0.713	F	50	108.8	75 - 125	
SELENIUM	45.9		0.522		50	90.8	75 - 125	
SILVER	48.3		0	.1	50	96.7	75 - 125	
THALLIUM	56.0		0.0319	F	50	112.0	75 - 125	

N = % Recovery exceeds control limits

F = Result is between MDL and RL

U = Sample result is below MDL. A value of zero is used in the calculation

Microbac Laboratories Inc.
Initial Calibration Summary

00086989

Login:	<u>L08120101</u>	Workgroup (AAB#):	<u>WG289904</u>
Analytical Method:	<u>6020</u>	Instrument ID:	<u>ELAN-ICP</u>
ICAL Worknum:	<u>WG290093</u>	Initial Calibration Date:	<u>09-DEC-2008 10:49</u>

	WG290093-01		WG290093-02		WG290093-03		WG290093-04		R	Q
	Conc	INT	Conc	INT	Conc	INT	Conc	INT		
ANTIMONY	0	17.7	.4	2120	50	202000	100	402000	.999997	
ARSENIC	0	-295	.4	388	50	76200	100	150000	.999992	
BARIUM	0	23.0	.4	824	50	94200	100	187000	.999969	
CADMIUM	0	-0.264	.4	541	50	66100	100	128000	.999949	
CHROMIUM	0	12200	.4	16100	50	471000	100	911000	.999988	
COPPER	0	161	.4	1470	50	138000	100	266000	.999928	
LEAD	0	169	.4	9690	50	1120000	100	2220000	.999994	
MANGANESE	0	432	.4	6330	50	665000	100	1280000	.999935	
NICKEL	0	39.7	.4	1100	50	123000	100	234000	.999864	
SELENIUM	0	-9.72	.4	52.7	50	6100	100	12000	.999995	
SILVER	0	67.3	.4	2900	50	326000	100	640000	.999996	
THALLIUM	0	34.7	.4	2890	50	342000	100	678000	.999998	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995



Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-06
Instrument ID: ELAN-ICP Run Time: 11:00 Method: 6020
File ID: EL.120908.110035 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG289904 Cal ID: ELAN-ICP - 09-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
SILVER	.1	.4	.1	U
ARSENIC	.1	.4	.1	U
BARIUM	.2	1.2	.2	U
CADMIUM	.05	.2	.05	U
CHROMIUM	.2	.8	.2	U
COPPER	.2	.8	.2	U
MANGANESE	.2	.8	.2	U
NICKEL	.4	1.6	.4	U
LEAD	.1	.2	.1	U
ANTIMONY	.1	.4	.2	F
SELENIUM	.2	.4	.2	U
THALLIUM	.02	.08	.02	U

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-12
Instrument ID: ELAN-ICP Run Time: 11:34 Method: 6020
File ID: EL.120908.113457 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Silver	0.100	0.400	0.100	U
Arsenic	0.100	0.400	0.100	U
Barium	0.200	1.20	0.200	U
Cadmium	0.0500	0.200	0.0500	U
Chromium	0.200	0.800	0.200	U
Copper	0.200	0.800	0.200	U
Lead	0.100	0.200	0.100	U
Manganese	0.200	0.800	0.200	U
Nickel	0.400	1.60	0.400	U
Antimony	0.100	0.400	0.100	U
Selenium	0.200	0.400	0.200	U
Thallium	0.0200	0.0800	0.0200	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-14
Instrument ID: ELAN-ICP Run Time: 12:29 Method: 6020
File ID: EL.120908.122908 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Silver	0.100	0.400	0.100	U
Arsenic	0.100	0.400	0.100	U
Barium	0.200	1.20	0.200	U
Cadmium	0.0500	0.200	0.0500	U
Chromium	0.200	0.800	0.200	U
Copper	0.200	0.800	0.200	U
Lead	0.100	0.200	0.100	U
Manganese	0.200	0.800	0.200	U
Nickel	0.400	1.60	0.400	U
Antimony	0.100	0.400	0.114	F
Selenium	0.200	0.400	0.200	U
Thallium	0.0200	0.0800	0.0200	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-16
Instrument ID: ELAN-ICP Run Time: 13:37 Method: 6020
File ID: EL.120908.133701 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Silver	0.100	0.400	0.100	U
Arsenic	0.100	0.400	0.100	U
Barium	0.200	1.20	0.200	U
Cadmium	0.0500	0.200	0.0500	U
Chromium	0.200	0.800	0.200	U
Copper	0.200	0.800	0.200	U
Lead	0.100	0.200	0.100	U
Manganese	0.200	0.800	0.200	U
Nickel	0.400	1.60	0.400	U
Antimony	0.100	0.400	0.100	U
Selenium	0.200	0.400	0.364	F
Thallium	0.0200	0.0800	0.0200	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-18
Instrument ID: ELAN-ICP Run Time: 14:16 Method: 6020
File ID: EL.120908.141654 Analyst: JYH Units: ug/L
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Silver	0.100	0.400	0.100	U
Arsenic	0.100	0.400	0.100	U
Barium	0.200	1.20	0.200	U
Cadmium	0.0500	0.200	0.0500	U
Chromium	0.200	0.800	0.200	U
Copper	0.200	0.800	0.200	U
Lead	0.100	0.200	0.100	U
Manganese	0.200	0.800	0.200	U
Nickel	0.400	1.60	0.400	U
Antimony	0.100	0.400	0.104	F
Selenium	0.200	0.400	0.313	F
Thallium	0.0200	0.0800	0.0200	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: <u>L08120101</u>	Run Date: <u>12/09/2008</u>	Sample ID: <u>WG290093-05</u>
Instrument ID: <u>ELAN-ICP</u>	Run Time: <u>10:54</u>	Method: <u>6020</u>
File ID: <u>EL.120908.105453</u>	Analyst: <u>JYH</u>	Units: <u>ug/L</u>
Workgroup (AAB#): <u>WG289904</u>	Cal ID: <u>ELAN-I - 09-DEC-08</u>	
QC Key: <u>STD</u>		

Analyte	Expected	Found	%REC	LIMITS	Q
Silver	50	50.4	101	90 - 110	
Arsenic	50	49.2	98.4	90 - 110	
Barium	50	49.5	99.0	90 - 110	
Cadmium	50	49.6	99.3	90 - 110	
Chromium	50	49.6	99.1	90 - 110	
Copper	50	49.9	99.8	90 - 110	
Lead	50	49.4	98.8	90 - 110	
Manganese	50	49.8	99.6	90 - 110	
Nickel	50	50.1	100	90 - 110	
Antimony	50	51.9	104	90 - 110	
Selenium	50	50.6	101	90 - 110	
Thallium	50	49.9	99.8	90 - 110	

* Exceeds LIMITS Limit

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-11
Instrument ID: ELAN-ICP Run Time: 11:29 Method: 6020
File ID: EL.120908.112915 Analyst: JYH QC Key: STD
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Silver	50.0	51.9	ug/L	104	90 - 110	
Arsenic	50.0	49.5	ug/L	98.9	90 - 110	
Barium	50.0	50.1	ug/L	100	90 - 110	
Cadmium	50.0	51.1	ug/L	102	90 - 110	
Chromium	50.0	50.2	ug/L	100	90 - 110	
Copper	50.0	50.9	ug/L	102	90 - 110	
Lead	50.0	49.8	ug/L	99.6	90 - 110	
Manganese	50.0	50.8	ug/L	102	90 - 110	
Nickel	50.0	50.4	ug/L	101	90 - 110	
Antimony	50.0	52.6	ug/L	105	90 - 110	
Selenium	50.0	50.5	ug/L	101	90 - 110	
Thallium	50.0	50.1	ug/L	100	90 - 110	

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-13
Instrument ID: ELAN-ICP Run Time: 12:23 Method: 6020
File ID: EL.120908.122327 Analyst: JYH QC Key: STD
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Silver	50.0	51.4	ug/L	103	90 - 110	
Arsenic	50.0	49.0	ug/L	97.9	90 - 110	
Barium	50.0	48.4	ug/L	96.7	90 - 110	
Cadmium	50.0	49.1	ug/L	98.3	90 - 110	
Chromium	50.0	51.0	ug/L	102	90 - 110	
Copper	50.0	51.6	ug/L	103	90 - 110	
Lead	50.0	49.4	ug/L	98.9	90 - 110	
Manganese	50.0	50.9	ug/L	102	90 - 110	
Nickel	50.0	51.0	ug/L	102	90 - 110	
Antimony	50.0	50.5	ug/L	101	90 - 110	
Selenium	50.0	50.0	ug/L	99.9	90 - 110	
Thallium	50.0	49.8	ug/L	99.5	90 - 110	

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-15
Instrument ID: ELAN-ICP Run Time: 13:31 Method: 6020
File ID: EL.120908.133120 Analyst: JYH QC Key: STD
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Silver	50.0	52.4	ug/L	105	90 - 110	
Arsenic	50.0	50.2	ug/L	100	90 - 110	
Barium	50.0	49.3	ug/L	98.5	90 - 110	
Cadmium	50.0	52.4	ug/L	105	90 - 110	
Chromium	50.0	52.9	ug/L	106	90 - 110	
Copper	50.0	53.7	ug/L	107	90 - 110	
Lead	50.0	51.9	ug/L	104	90 - 110	
Manganese	50.0	53.1	ug/L	106	90 - 110	
Nickel	50.0	52.6	ug/L	105	90 - 110	
Antimony	50.0	53.1	ug/L	106	90 - 110	
Selenium	50.0	51.2	ug/L	102	90 - 110	
Thallium	50.0	52.8	ug/L	106	90 - 110	

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-17
Instrument ID: ELAN-ICP Run Time: 14:11 Method: 6020
File ID: EL.120908.141112 Analyst: JYH QC Key: STD
Workgroup (AAB#): WG289904 Cal ID: ELAN-I - 09-DEC-08
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Silver		50.0	51.0	ug/L	102	90 - 110		
Arsenic		50.0	50.4	ug/L	101	90 - 110		
Barium		50.0	49.5	ug/L	99.1	90 - 110		
Cadmium		50.0	51.1	ug/L	102	90 - 110		
Chromium		50.0	52.3	ug/L	105	90 - 110		
Copper		50.0	52.8	ug/L	106	90 - 110		
Lead		50.0	50.8	ug/L	102	90 - 110		
Manganese		50.0	52.1	ug/L	104	90 - 110		
Nickel		50.0	51.8	ug/L	104	90 - 110		
Antimony		50.0	51.7	ug/L	103	90 - 110		
Selenium		50.0	51.2	ug/L	102	90 - 110		
Thallium		50.0	51.3	ug/L	103	90 - 110		

* Exceeds LIMITS Criteria

Login number: L08120101
Instrument ID: ELAN-ICP
Sol. A : WG290093-09
Sol. AB : WG290093-10

File ID: EL.120908.111748
File ID: EL.120908.112332

Workgroup (AAB#): WG289904
Method: 6020
Units: ug/L
Matrix: Water

ANALYTE	Sol. A			Sol. AB			Q
	True	Found	%Recovery	True	Found	%Recovery	
Antimony	NS	-0.0374	NS	100	107	107	
Arsenic	NS	-0.0127	NS	100	100	100	
Barium	NS	0.0986	NS	100	98.1	98.1	
Cadmium	NS	0.0886	NS	100	101	101	
Chromium	NS	0.110	NS	100	94.4	94.4	
Copper	NS	0.0968	NS	100	94.2	94.2	
Lead	NS	0.00260	NS	100	96.7	96.7	
Manganese	NS	0.301	NS	100	96.9	96.9	
Nickel	NS	1.14	NS	100	94.3	94.3	
Selenium	NS	-0.0752	NS	100	107	107	
Silver	NS	-0.00960	NS	100	98.9	98.9	
Thallium	NS	0.0247	NS	100	96.7	96.7	

NS = Not spiked

* = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.

= Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).

Login Number: L08120101 Run Date: 12/09/2008 Sample ID: WG290093-08
Instrument ID: ELAN-ICP Run Time: 11:12 Prep Method: 3015
File ID: EL.120908.111203 Analyst: JYH Method: 6020
Workgroup (AAB#): WG290093 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: ELAN-ICP-09-DEC-2008 10:49

Analytes	Expected	Found	% Rec	Limits	Q
Cadmium, Total	0.200	0.229	115	50 - 150	
Thallium, Total	0.0800	0.0797	99.6	50 - 150	

INTERNAL STANDARD REPORT

Login: L08120101 Analytical Method: 6020
 Analytical Workgroup: WG289904 Matrix: 1
 Instrument: ELAN-ICP Analyst: JYH
 ICAL Date: 09-DEC-2008 10:32

Sample	Type	Run Date	BISMUTH	GERMANIUM	INDIUM	TERBIUM
			% Rec	% Rec	% Rec	% Rec
L08120101-08	SAMP	09-DEC-2008 13:13	85.11	90.635	87.33	91.805
L08120101-08	SAMP	09-DEC-2008 13:47	92.019	89.685	86.731	91.28
L08120101-09	SAMP	09-DEC-2008 12:34	78.862	86.278	86.951	88.13
L08120101-09	SAMP	09-DEC-2008 13:20	96.94	94.488	91.627	92.832
L08120101-10	SAMP	09-DEC-2008 12:39	81.393	86.211	86.993	89.703
L08120101-10	SAMP	09-DEC-2008 13:25	93.902	92.642	90.131	92.82
L08120101-11	SAMP	09-DEC-2008 12:45	78.537	83.969	84.419	88.48
L08120101-11	SAMP	09-DEC-2008 13:42	95.293	91.305	89.291	92.453
L08120101-12	SAMP	09-DEC-2008 12:50	99.221	100.515	97.035	100.711
L08120101-13	SAMP	09-DEC-2008 12:57	91.888	93.321	90.808	95.028
L08120101-13	SAMP	09-DEC-2008 13:54	95.844	91.72	89.165	93.782
L08120101-14	SAMP	09-DEC-2008 13:03	95.736	97.479	95.065	101.575
L08120101-14	SAMP	09-DEC-2008 14:00	96.493	92.965	91.593	94.136
L08120101-15	SAMP	09-DEC-2008 13:08	83.906	88.52	87.315	92.684
L08120101-15	SAMP	09-DEC-2008 14:05	94.06	94.428	92.135	92.829
WG289666-01	REF	09-DEC-2008 11:50	95.407	96.745	95.207	96.943
WG289666-02	BLANK	09-DEC-2008 11:40	102.252	104.431	101.914	100.264
WG289666-03	LCS	09-DEC-2008 11:45	100.387	99.969	98.618	97.927
WG289666-04	DUP	09-DEC-2008 11:56	95.053	98.485	95.152	97.95
WG289666-05	MS	09-DEC-2008 12:01	94.222	97.294	94.31	97.672
WG289666-06	MSD	09-DEC-2008 12:07	93.59	95.457	93.054	97.13
WG289904-01	PSPK	09-DEC-2008 12:12	93.929	94.882	93.037	97.257
WG289904-02	SERIAL	09-DEC-2008 12:17	103.379	103.651	101.432	104.074
WG290093-05	ICV	09-DEC-2008 10:54	100.688	97.69	98.045	98.639
WG290093-06	ICB	09-DEC-2008 11:00	100.272	96.422	97.826	99.491
WG290093-11	CCV	09-DEC-2008 11:29	97.469	99.019	95.659	94.99
WG290093-12	CCB	09-DEC-2008 11:34	99.959	102.328	99.363	97.968
WG290093-13	CCV	09-DEC-2008 12:23	107.808	104.077	102.955	104.379
WG290093-14	CCB	09-DEC-2008 12:29	104.913	99.469	99.305	102.561
WG290093-15	CCV	09-DEC-2008 13:31	95.395	89.881	88.221	92.953
WG290093-16	CCB	09-DEC-2008 13:37	98.491	91.677	89.775	94.312
WG290093-17	CCV	09-DEC-2008 14:11	94.126	88.118	88.781	90.913
WG290093-18	CCB	09-DEC-2008 14:16	95.573	89.358	89.269	91.952

Acceptance criteria: 30% - 120%
 Underlined recoveries are out of range

INT_STD_ICPMS - Modified 03/05/2008
 PDF File ID: 1272567
 Report generated: 12/10/2008 10:17



INTERNAL STANDARD REPORT

Login: L08120101 Analytical Method: 6020
Analytical Workgroup: WG289904 Matrix: 2
Instrument: ELAN-ICP Analyst: JYH
ICAL Date: 09-DEC-2008 10:32

Sample	Type	Run Date	BISMUTH	GERMANIUM	INDIUM	TERBIUM
			% Rec	% Rec	% Rec	% Rec
L08120109-01	SAMP	09-DEC-2008 11:50	95.407	96.745	95.207	96.943

Acceptance criteria: 30% - 120%
Underlined recoveries are out of range

INT_STD_ICPMS - Modified 03/05/2008
PDF File ID: 1272567
Report generated: 12/10/2008 10:17



Login Number: L08120101

Date: 09/11/2008

Instrument ID: ELAN-ICP

Method: 6020

Analyte	Integration Time (Sec.)	Concentration (ug/L)
Antimony	1.00	100.0
Arsenic	1.00	100.0
Barium	1.00	100.0
Cadmium	1.00	100.0
Chromium	1.00	100.0
Cobalt	1.00	100.0
Copper	1.00	100.0
Lead	1.00	100.0
Manganese	1.00	100.0
Nickel	1.00	100.0
Selenium	1.00	100.0
Silver	1.00	100.0
Thallium	1.00	100.0
Vanadium	1.00	100.0
Zinc	1.00	100.0

Comments:

All analytes passed acceptance criteria at the specified concentration.

2.2.3 Metals CVAA Data (Mercury)

2.2.3.1 Summary Data

LABORATORY REPORT

00087007

L08120101

12/15/08 11:05

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: LONGHORN AAP KARNACK TX

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
03WW01-112408	L08120101-08	7470A	1	04-DEC-08
35AWW06-120308	L08120101-09	7470A	1	04-DEC-08
49WW06-120308	L08120101-10	7470A	1	04-DEC-08
35AWW08-112408	L08120101-11	7470A	1	04-DEC-08
35AWW07-112408	L08120101-12	7470A	1	04-DEC-08
35AWW02-112608	L08120101-13	7470A	1	04-DEC-08
35AWW02-112608-FD	L08120101-14	7470A	1	04-DEC-08
LHSMW04-112508	L08120101-15	7470A	1	04-DEC-08



Report Number: **L08120101**Report Date : **December 15, 2008**

00087008

Sample Number: **L08120101-08**
Client ID: **03WW01-112408**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **11/24/2008 17:05**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 15:57**
File ID: **HY.120508.155701**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6		U	0.000200	0.000100

U Not detected at or above adjusted sample detection limit

Report Number: **L08120101**Report Date : **December 15, 2008**

00087009

Sample Number: **L08120101-09**
Client ID: **35AWW06-120308**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **12/03/2008 14:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 15:58**
File ID: **HY.120508.155855**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6		U	0.000200	0.000100

U Not detected at or above adjusted sample detection limit

Report Number: **L08120101**Report Date : **December 15, 2008**

00087010

Sample Number: **L08120101-10**
Client ID: **49WW06-120308**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **12/03/2008 12:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 16:08**
File ID: **HY.120508.160817**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6		U	0.000200	0.000100

U Not detected at or above adjusted sample detection limit

Report Number: **L08120101**Report Date : **December 15, 2008**

00087011

Sample Number: **L08120101-11**
Client ID: **35AWW08-112408**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **11/24/2008 12:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 16:10**
File ID: **HY.120508.161001**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6		U	0.000200	0.000100

U Not detected at or above adjusted sample detection limit

Report Number: **L08120101**Report Date : **December 15, 2008**

00087012

Sample Number: **L08120101-12**
Client ID: **35AWW07-112408**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **11/24/2008 09:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 16:12**
File ID: **HY.120508.161217**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6		U	0.000200	0.000100

U Not detected at or above adjusted sample detection limit

Report Number: **L08120101**Report Date : **December 15, 2008**

00087013

Sample Number: **L08120101-13**
Client ID: **35AWW02-112608**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **11/26/2008 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 16:13**
File ID: **HY.120508.161359**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6		U	0.000200	0.000100

U Not detected at or above adjusted sample detection limit

Report Number: **L08120101**Report Date : **December 15, 2008**

00087014

Sample Number: **L08120101-14**
Client ID: **35AWW02-112608-FD**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **11/26/2008 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 16:15**
File ID: **HY.120508.161544**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6	0.000143	J	0.000200	0.000100

J The analyte was positively identified, but the quantitation was below the RL

Report Number: **L08120101**Report Date : **December 15, 2008**

00087015

Sample Number: **L08120101-15**
Client ID: **LHSMW04-112508**
Matrix: **Water**
Workgroup Number: **WG289753**
Collect Date: **11/25/2008 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **ADC**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **12/05/2008 09:41**
Cal Date: **12/05/2008 15:08**
Run Date: **12/05/2008 16:17**
File ID: **HY.120508.161729**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Mercury	7439-97-6	0.000416		0.000200	0.000100

2.2.3.2 QC Summary Data

Example Cold Vapor Mercury Calculations

Hydra AA Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters

The system performs linear regression from data consisting of a blank and five standards.

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:

Cs = Concentration computed by the data system (ug/L)

Vf = Diluted to Volume (mL)

Vi = Aliquot Volume (mL)

D = Manual dilution factor, if required (10X = 10)

Example:

0.1

40

40

1

Cx = Concentration of element in ppb (ug/L)

0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Ws} \times D$$

Where:

Cs = Concentration computed by the data system (ug/L)

Vf = Diluted to volume (mL)

Ws = Aliquot weight (g)

D = Manual dilution factor

Example:

0.1

40

0.6

1

Cx = Concentration of element in ug/kg

6.67

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

1 Cx = Concentration calculated as received (wet basis)

Px = Percent solids of sample (%wt)

6.67

80

$Cdry$ = Concentration calculated as dry weight (ug/kg)

8.33

8.33 ug/kg = 0.00833 mg/kg

Workgroup: WG289713

Analyst: REK

Spike Analyst: REK

Method: 7470A

Run Date: 12/05/2008 09:41

Hotblock Start Temp: 96 @ 08:40

Hotblock End Temp: 96.3 @ 10:40

SOP: ME404 Revision 11

Spike Solution: STD30179

Spike Witness: SDL

H2SO4 Lot #: COA13254

HN03 Lot #: COA13563

KMnO4 1:1 Lot #: RGT13349

K2S2O8 1:1 Lot #: RGT13338

Digest tubes Lot #: COA13407

Mercury Water ICV Lot #: STD30181

HG H2O STDS 10PPM Lot #: STD30187

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG289713-02	BLANK	1	40 mL	40 mL		
2	WG289659-01	FBLK	17	4 mL	40 mL		
3	WG289713-03	LCS	1	40 mL	40 mL	4 mL	
4	L08120052-01	SAMP	2	40 mL	40 mL		12/12/08
5	L08120059-13	SAMP	1	40 mL	40 mL		12/17/08
6	L08120059-14	SAMP	1	40 mL	40 mL		12/17/08
7	L08120085-03	SAMP	2	40 mL	40 mL		12/12/08
8	L08120089-01	SAMP	17	4 mL	40 mL		12/12/08
9	L08120089-02	SAMP	17	4 mL	40 mL		12/12/08
10	L08120092-02	SAMP	17	4 mL	40 mL		12/08/08
11	L08120092-04	SAMP	17	4 mL	40 mL		12/08/08
12	L08120092-06	SAMP	17	4 mL	40 mL		12/08/08
13	L08120092-08	SAMP	17	4 mL	40 mL		12/08/08
14	L08120092-10	SAMP	17	4 mL	40 mL		12/08/08
15	L08120101-08	SAMP	1	40 mL	40 mL		12/11/08
16	WG289713-01	REF	1	40 mL	40 mL		
17	L08120101-09	SAMP	1	40 mL	40 mL		12/11/08
18	L08120101-10	SAMP	1	40 mL	40 mL		12/11/08
19	L08120101-11	SAMP	1	40 mL	40 mL		12/11/08
20	L08120101-12	SAMP	1	40 mL	40 mL		12/11/08
21	L08120101-13	SAMP	1	40 mL	40 mL		12/11/08
22	L08120101-14	SAMP	1	40 mL	40 mL		12/11/08
23	L08120101-15	SAMP	1	40 mL	40 mL		12/11/08
24	WG289713-04	MS	1	36 mL	40 mL	4 mL	
25	WG289713-05	MSD	1	36 mL	40 mL	4 mL	

Analyst: REK

Reviewer: Vicki Collier

00087019

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 120508B.PRN
 Analyst1: ADC Analyst2: N/A
 Method: 7470A SOP: 404 Rev: 8
 Maintenance Log ID: 26858

Calibration Std: STD30187 ICV/CCV Std: STD30181 Post Spike: STD30187
 ICSA: N/A ICSAB: N/A

Workgroups: 289753, 289754

Comments: NPDES samples not reported from this calibration due to failure to meet ICV acceptance criteria for EPA Method 245.1

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.120508.145906	WG289795-01	Calibration Point		1		12/05/08 14:59
2	HY.120508.150049	WG289795-02	Calibration Point		1		12/05/08 15:00
3	HY.120508.150247	WG289795-03	Calibration Point		1		12/05/08 15:02
4	HY.120508.150440	WG289795-04	Calibration Point		1		12/05/08 15:04
5	HY.120508.150624	WG289795-05	Calibration Point		1		12/05/08 15:06
6	HY.120508.150817	WG289795-06	Calibration Point		1		12/05/08 15:08
7	HY.120508.151003	WG289795-07	Initial Calibration Verification		1		12/05/08 15:10
8	HY.120508.151155	WG289795-08	Initial Calibration Verification		1		12/05/08 15:11
9	HY.120508.151648	WG289795-09	Initial Calib Blank		1		12/05/08 15:16
10	HY.120508.151834	WG289795-10	CCV		1		12/05/08 15:18
11	HY.120508.152028	WG289795-11	CCB		1		12/05/08 15:20
12	HY.120508.152302	WG289713-02	Method/Prep Blank	40/40	1		12/05/08 15:23
13	HY.120508.152455	WG289659-01	Fluid Blank		1		12/05/08 15:24
14	HY.120508.152648	WG289713-03	Laboratory Control S	40/40	1		12/05/08 15:26
15	HY.120508.152855	L08120052-01	OUTFALL 008	40/40	1		12/05/08 15:28
16	HY.120508.153037	WG289753-01	Post Digestion Spike		1	L08120052-01	12/05/08 15:30
17	HY.120508.153239	L08120059-13	EB-120208-IS	40/40	1		12/05/08 15:32
18	HY.120508.153433	L08120059-14	EB-120208-SS	40/40	1		12/05/08 15:34
19	HY.120508.153628	L08120085-03	OUTFALL 002 / GRAB		1		12/05/08 15:36
20	HY.120508.153813	WG289795-12	CCV		1		12/05/08 15:38
21	HY.120508.153955	WG289795-13	CCB		1		12/05/08 15:39
22	HY.120508.154143	L08120089-01	GC081641	4/40	1	WG289680-01	12/05/08 15:41
23	HY.120508.154337	WG289753-02	Post Digestion Spike		1	L08120089-01	12/05/08 15:43
24	HY.120508.154519	L08120089-02	GC081642	4/40	1		12/05/08 15:45
25	HY.120508.154701	L08120092-02	LCAB-SO-SP03-00	4/40	1		12/05/08 15:47
26	HY.120508.154908	L08120092-04	LCAB-SO-SP04-00	4/40	1		12/05/08 15:49
27	HY.120508.155121	L08120092-06	LCAB-SO-SP05-00	4/40	1		12/05/08 15:51
28	HY.120508.155315	L08120092-08	LCAB-SO-SP06-00	4/40	1		12/05/08 15:53
29	HY.120508.155518	L08120092-10	LCAB-SO-SP07-00	4/40	1		12/05/08 15:55
30	HY.120508.155701	L08120101-08	03WW01-112408	40/40	1		12/05/08 15:57
31	HY.120508.155855	L08120101-09	35AWW06-120308	40/40	1	WG289713-01	12/05/08 15:58
32	HY.120508.160039	WG289795-14	CCV		1		12/05/08 16:00
33	HY.120508.160303	WG289795-15	CCB		1		12/05/08 16:03
34	HY.120508.160451	WG289713-04	Matrix Spike	36/40	1	L08120101-09	12/05/08 16:04
35	HY.120508.160634	WG289713-05	Matrix Spike Duplica	36/40	1	L08120101-09	12/05/08 16:06
36	HY.120508.160817	L08120101-10	49WW06-120308	40/40	1		12/05/08 16:08
37	HY.120508.161001	L08120101-11	35AWW08-112408	40/40	1		12/05/08 16:10

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Maren Beery



00087020

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 120508B.PRN
 Analyst1: ADC Analyst2: N/A
 Method: 7470A SOP: 404 Rev: 8
 Maintenance Log ID: 26858

Calibration Std: STD30187 ICV/CCV Std: STD30181 Post Spike: STD30187
 ICSA: N/A ICSAB: N/A

Workgroups: 289753, 289754

Comments: NPDES samples not reported from this calibration due to failure to meet ICV acceptance criteria for EPA Method 245.1

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
38	HY.120508.161217	L08120101-12	35AWW07-112408	40/40	1		12/05/08 16:12
39	HY.120508.161359	L08120101-13	35AWW02-112608	40/40	1		12/05/08 16:13
40	HY.120508.161544	L08120101-14	35AWW02-112608-FD	40/40	1		12/05/08 16:15
41	HY.120508.161729	L08120101-15	LHSMW04-112508	40/40	1		12/05/08 16:17
42	HY.120508.161920	WG289795-16	CCV		1		12/05/08 16:19
43	HY.120508.162123	WG289795-17	CCB		1		12/05/08 16:21
44	HY.120508.162306	WG289716-02	Method/Prep Blank	40/40	1		12/05/08 16:23
45	HY.120508.162521	WG289716-03	Laboratory Control S	40/40	1		12/05/08 16:25
46	HY.120508.162713	L08120083-01	FLUME	40/40	1		12/05/08 16:27
47	HY.120508.162907	WG289754-01	Post Digestion Spike		1	L08120083-01	12/05/08 16:29
48	HY.120508.163050	L08120083-02	FLUME	40/40	1		12/05/08 16:30
49	HY.120508.163246	L08120083-03	202 EFF	40/40	1		12/05/08 16:32
50	HY.120508.163428	L08120083-04	202 EFF	40/40	1		12/05/08 16:34
51	HY.120508.163614	L08120094-01	EOD-MW02	40/40	1		12/05/08 16:36
52	HY.120508.163757	WG289795-18	CCV		1		12/05/08 16:37
53	HY.120508.163941	WG289795-19	CCB		1		12/05/08 16:39
54	HY.120508.164123	L08120094-02	EOD-MW03	40/40	1	WG289716-01	12/05/08 16:41
55	HY.120508.164317	WG289716-04	Matrix Spike	36/40	1	L08120094-02	12/05/08 16:43
56	HY.120508.164526	WG289716-05	Matrix Spike Duplica	36/40	1	L08120094-02	12/05/08 16:45
57	HY.120508.164711	L08120094-03	EOD-MW04R	40/40	1		12/05/08 16:47
58	HY.120508.164917	L08120094-04	EOD-MW02-RIN	40/40	1		12/05/08 16:49
59	HY.120508.165103	L08120096-01	0812-024-1	40/40	1		12/05/08 16:51
60	HY.120508.165246	L08120120-01	201 EFF	40/40	1		12/05/08 16:52
61	HY.120508.165445	L08120120-02	201 EFF	40/40	1		12/05/08 16:54
62	HY.120508.165628	L08120120-03	EMERGANCY BASIN	40/40	1		12/05/08 16:56
63	HY.120508.165903	L08120120-04	EMERGANCY BASIN	40/40	1		12/05/08 16:59
64	HY.120508.170110	WG289795-20	CCV		1		12/05/08 17:01
65	HY.120508.170303	WG289795-21	CCB		1		12/05/08 17:03

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Maren Beery



00087021

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 120908A.PRN
 Analyst1: ADC Analyst2: N/A
 Method: 7470A SOP: 404 Rev: 8
 Maintenance Log ID: 26894

Calibration Std: STD30187 ICV/CCV Std: STD30181 Post Spike: STD30187
 ICSA: N/A ICSAB: N/A
 Workgroups: 289753

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.120908.103642	WG289992-01	Calibration Point		1		12/09/08 10:36
2	HY.120908.103827	WG289992-02	Calibration Point		1		12/09/08 10:38
3	HY.120908.104013	WG289992-03	Calibration Point		1		12/09/08 10:40
4	HY.120908.104206	WG289992-04	Calibration Point		1		12/09/08 10:42
5	HY.120908.104357	WG289992-05	Calibration Point		1		12/09/08 10:43
6	HY.120908.104553	WG289992-06	Calibration Point		1		12/09/08 10:45
7	HY.120908.104736	WG289992-07	Initial Calibration Verification		1		12/09/08 10:47
8	HY.120908.104939	WG289992-08	Initial Calib Blank		1		12/09/08 10:49
9	HY.120908.105122	WG289992-09	CCV		1		12/09/08 10:51
10	HY.120908.105306	WG289992-10	CCB		1		12/09/08 10:53
11	HY.120908.105451	WG289713-02	Method/Prep Blank	40/40	1		12/09/08 10:54
12	HY.120908.105702	WG289713-03	Laboratory Control Sample	40/40	1		12/09/08 10:57
13	HY.120908.105936	L08120052-01	OUTFALL 008	40/40	1		12/09/08 10:59
14	HY.120908.110133	WG289753-01	Post Digestion Spike		1		12/09/08 11:01
15	HY.120908.110316	L08120089-01	GC081641		1		12/09/08 11:03
16	HY.120908.110458	L08120101-09	35AWW06-120308		1	WG289713-01	12/09/08 11:04
17	HY.120908.110640	WG289713-04	Matrix Spike	36/40	1		12/09/08 11:06
18	HY.120908.110857	WG289713-05	Matrix Spike Duplicate	36/40	1		12/09/08 11:08
19	HY.120908.111039	WG289992-11	CCV		1		12/09/08 11:10
20	HY.120908.111231	WG289992-12	CCB		1		12/09/08 11:12

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Maren Beery



Data Checklist

Date: 05-DEC-2008

Analyst: ADC

Analyst: NA

Method: 7470A

Instrument: HYDRA

Curve Workgroup: 289795

Runlog ID: 25597

Analytical Workgroups: 289753, 289754

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0059, 0089, 0092, 0101, 0094, 0096
Client Forms	X
Level X	
Level 3	0101, 0094
Level 4	0059, 0092
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	SLP
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
08-DEC-2008

Secondary Reviewer:
08-DEC-2008

Shen L. Pabon

Maren Berry

Microbac Laboratories Inc.

Data Checklist

Date: 09-DEC-2008

Analyst: ADC

Analyst: NA

Method: 7470A

Instrument: HYDRA

Curve Workgroup: 289992

Runlog ID: 25625

Analytical Workgroups: 289753

Calibration/Linearity	X
ICV/CCV	X
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0052
Client Forms	X
Level X	
Level 3	
Level 4	
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	NA
Primary Reviewer	ADC
Secondary Reviewer	MMB
Comments	

Primary Reviewer:
09-DEC-2008



Secondary Reviewer:
09-DEC-2008



Analytical Method:7470A

AAB#:WG289753

Login Number:L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
03WW01-112408	11/24/08	12/04/08	12/05/08	28	10.7	12/05/08	28	0.261	
49WW06-120308	12/03/08	12/04/08	12/05/08	28	1.88	12/05/08	28	0.269	
35AWW06-120308	12/03/08	12/04/08	12/05/08	28	1.80	12/05/08	28	0.262	
35AWW02-112608-FD	11/26/08	12/04/08	12/05/08	28	9.00	12/05/08	28	0.274	
LHSMW04-112508	11/25/08	12/04/08	12/05/08	28	9.91	12/05/08	28	0.275	
35AWW07-112408	11/24/08	12/04/08	12/05/08	28	11.0	12/05/08	28	0.272	
35AWW02-112608	11/26/08	12/04/08	12/05/08	28	9.00	12/05/08	28	0.273	
35AWW08-112408	11/24/08	12/04/08	12/05/08	28	10.9	12/05/08	28	0.270	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

METHOD BLANK SUMMARY

Login Number: <u>L08120101</u>	Work Group: <u>WG289753</u>
Blank File ID: <u>HY.120508.152302</u>	Blank Sample ID: <u>WG289713-02</u>
Prep Date: <u>12/05/08 09:41</u>	Instrument ID: <u>HYDRA</u>
Analyzed Date: <u>12/05/08 15:23</u>	Method: <u>7470A</u>
Analyst: <u>ADC</u>	

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289713-03	HY.120508.152648	12/05/08 15:26	01
03WW01-112408	L08120101-08	HY.120508.155701	12/05/08 15:57	01
35AWW06-120308	L08120101-09	HY.120508.155855	12/05/08 15:58	01
49WW06-120308	L08120101-10	HY.120508.160817	12/05/08 16:08	01
35AWW08-112408	L08120101-11	HY.120508.161001	12/05/08 16:10	01
35AWW07-112408	L08120101-12	HY.120508.161217	12/05/08 16:12	01
35AWW02-112608	L08120101-13	HY.120508.161359	12/05/08 16:13	01
35AWW02-112608-FD	L08120101-14	HY.120508.161544	12/05/08 16:15	01
LHSMW04-112508	L08120101-15	HY.120508.161729	12/05/08 16:17	01

Report Name: BLANK_SUMMARY
 PDF File ID: 1270158
 Report generated 12/08/2008 12:08



Login Number: L08120101 Prep Date: 12/05/08 09:41 Sample ID: WG289713-02
Instrument ID: HYDRA Run Date: 12/05/08 15:23 Prep Method: 7470A
File ID: HY.120508.152302 Analyst: ADC Method: 7470A
Workgroup (AAB#): WG289753 Matrix: Water Units: mg/L
Contract #: DACA56-94-D-0020 Cal ID: HYDRA - 05-DEC-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Mercury	0.000100	0.000200	0.000100	1	U

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1270159
08-DEC-2008 12:08



Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289713-03
Instrument ID: HYDRA Run Time: 15:26 Prep Method: 7470A
File ID: HY.120508.152648 Analyst: ADC Method: 7470A
Workgroup (AAB#): WG289753 Matrix: Water Units: mg/L
QC Key: STD Lot#: STD30179 Cal ID: HYDRA - 05-DEC-08

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.00400	0.00423	106	85 - 115	

Loginnum: L08120101 Cal ID: HYDRA - Worknum: WG289753
 Instrument ID: HYDRA Contract #: DACA56-94-D-0020 Method: 7470A
 Parent ID: WG289713-01 File ID: HY.120508.155855 Dil: 1 Matrix: WATER
 Sample ID: WG289713-04 MS File ID: HY.120508.160451 Dil: 1 Units: mg/L
 Sample ID: WG289713-05 MSD File ID: HY.120508.160634 Dil: 1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	ND	0.00444	0.00502	113	0.00444	0.00490	110	2.46	85 - 115	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

Microbac Laboratories Inc.
Serial Dilution Report

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 1270155
12/08/2008 12:07



Sample Login ID: L08120101
Instrument ID: HYDRA
Post Spike ID: WG289753-01
Sample ID: L08120052-01

Worknum: WG289753
Method: 7470A
Units: ug/L
Matrix: Water
File ID: HY.120508.153037 Dil: 1
File ID: HY.120508.152855 Dil: 1

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	0.935		0	.1	1	93.5	85 - 115	

N = % Recovery exceeds control limits

F = Result is between MDL and RL

U = Sample result is below MDL. A value of zero is used in the calculation

Login Number: L08120101
Analytical Method: 7470A
ICAL Worknum: WG289795

Workgroup (AAB#): WG289753
Instrument ID: HYDRA
Initial Calibration Date: 12/05/2008 15:08

Analyte	WG289795-01		WG289795-02		WG289795-03		WG289795-04		WG289795-05		WG289795-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	3305	0.200	11968	1.00	61350	2.00	116391	5.00	302220	10.0	591080

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

Login Number: L08120101
Analytical Method: 7470A
ICAL Worknum: WG289795

Workgroup (AAB#): WG289753
Instrument ID: HYDRA
Initial Calibration Date: 12/05/2008 15:08

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; $R < 0.995$

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-09
Instrument ID: HYDRA Run Time: 15:16 Method: 7471
File ID: HY.120508.151648 Analyst: ADC Units: ug/L
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.1	.2	.1	U

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-11
Instrument ID: HYDRA Run Time: 15:20 Method: 7470A
File ID: HY.120508.152028 Analyst: ADC Units: ug/L
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-13
Instrument ID: HYDRA Run Time: 15:39 Method: 7470A
File ID: HY.120508.153955 Analyst: ADC Units: ug/L
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-15
Instrument ID: HYDRA Run Time: 16:03 Method: 7470A
File ID: HY.120508.160303 Analyst: ADC Units: ug/L
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-17
 Instrument ID: HYDRA Run Time: 16:21 Method: 7470A
 File ID: HY.120508.162123 Analyst: ADC Units: ug/L
 Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
 Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
 F = Result is between MDL and RL.
 * = Result is above RL.

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-08
Instrument ID: HYDRA Run Time: 15:11 Method: 7470A
File ID: HY.120508.151155 Analyst: ADC Units: ug/L
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
QC Key: STD

Analyte	Expected	Found	%REC	LIMITS	Q
Mercury	2	2.13	107	90 - 110	

* Exceeds LIMITS Limit

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-10
Instrument ID: HYDRA Run Time: 15:18 Method: 7470A
File ID: HY.120508.151834 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Mercury, Total	0.00200	0.00199	mg/L	99.5	80 - 120	

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-12
Instrument ID: HYDRA Run Time: 15:38 Method: 7470A
File ID: HY.120508.153813 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Mercury, Total	0.00200	0.00198	mg/L	99.0	80 - 120	

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-14
Instrument ID: HYDRA Run Time: 16:00 Method: 7470A
File ID: HY.120508.160039 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Mercury, Total	0.00200	0.00210	mg/L	105	80 - 120	

* Exceeds LIMITS Criteria

Login Number: L08120101 Run Date: 12/05/2008 Sample ID: WG289795-16
Instrument ID: HYDRA Run Time: 16:19 Method: 7470A
File ID: HY.120508.161920 Analyst: ADC QC Key: STD
Workgroup (AAB#): WG289753 Cal ID: HYDRA - 05-DEC-08
Matrix: WATER

Analyte	Expected	Found	UNITS	%REC	LIMITS	Q
Mercury, Total	0.00200	0.00197	mg/L	98.5	80 - 120	

* Exceeds LIMITS Criteria

2.3 General Chemistry Data

2.3.1 Nitrate Data

2.3.1.1 Summary Data

LABORATORY REPORT

00087046

L08120101

12/15/08 11:05

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: LONGHORN AAP KARNACK TX

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
49WW06-120308	L08120101-10	353.2	1	04-DEC-08
49WW05-120208	L08120101-16	353.2	4	04-DEC-08
49WW07-120208	L08120101-17	353.2	1	04-DEC-08
49WW07-120208-FD	L08120101-18	353.2	1	04-DEC-08
49WW04-120308	L08120101-21	353.2	1	04-DEC-08
49WW08-120308	L08120101-23	353.2	1	04-DEC-08



Sample Number: **L08120101-10**
Client ID: **49WW06-120308**
Matrix: **Water**
Workgroup Number: **WG289920**
Collect Date: **12/03/2008 12:40**

PrePrep Method: **NONE**
Prep Method: **353.2**
Analytical Method: **353.2**
Analyst: **DIH**
Dilution: **1**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **12/09/2008 13:51**
Cal Date: **12/09/2008 10:13**
Run Date: **12/09/2008 13:51**
File ID: **SC08121008314301**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nitrogen, Nitrate-Nitrite		1.36		0.0500	0.0250

Sample Number: **L08120101-16**
Client ID: **49WW05-120208**
Matrix: **Water**
Workgroup Number: **WG289920**
Collect Date: **12/02/2008 14:10**

PrePrep Method: **NONE**
Prep Method: **353.2**
Analytical Method: **353.2**
Analyst: **DIH**
Dilution: **4**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **12/09/2008 13:51**
Cal Date: **12/09/2008 10:13**
Run Date: **12/09/2008 13:51**
File ID: **SC08121008315401**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nitrogen, Nitrate-Nitrite		2.07		0.200	0.100

Sample Number: **L08120101-17**
Client ID: **49WW07-120208**
Matrix: **Water**
Workgroup Number: **WG289920**
Collect Date: **12/02/2008 12:45**

PrePrep Method: **NONE**
Prep Method: **353.2**
Analytical Method: **353.2**
Analyst: **DIH**
Dilution: **1**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **12/09/2008 13:51**
Cal Date: **12/09/2008 10:13**
Run Date: **12/09/2008 13:51**
File ID: **SC08121008320001**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nitrogen, Nitrate-Nitrite		0.661		0.0500	0.0250

Sample Number: **L08120101-18**
Client ID: **49WW07-120208-FD**
Matrix: **Water**
Workgroup Number: **WG289920**
Collect Date: **12/02/2008 12:45**

PrePrep Method: **NONE**
Prep Method: **353.2**
Analytical Method: **353.2**
Analyst: **DIH**
Dilution: **1**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **12/09/2008 13:51**
Cal Date: **12/09/2008 10:13**
Run Date: **12/09/2008 13:51**
File ID: **SC08121008320601**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nitrogen, Nitrate-Nitrite		0.637		0.0500	0.0250

Sample Number: **L08120101-21**
Client ID: **49WW04-120308**
Matrix: **Water**
Workgroup Number: **WG289920**
Collect Date: **12/03/2008 10:15**

PrePrep Method: **NONE**
Prep Method: **353.2**
Analytical Method: **353.2**
Analyst: **DIH**
Dilution: **1**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **12/09/2008 13:51**
Cal Date: **12/09/2008 10:13**
Run Date: **12/09/2008 13:51**
File ID: **SC08121008321301**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nitrogen, Nitrate-Nitrite		1.72		0.0500	0.0250

Sample Number: **L08120101-23**
Client ID: **49WW08-120308**
Matrix: **Water**
Workgroup Number: **WG289920**
Collect Date: **12/03/2008 11:00**

PrePrep Method: **NONE**
Prep Method: **353.2**
Analytical Method: **353.2**
Analyst: **DIH**
Dilution: **1**
Units: **mg/L**

Instrument: **SMARTCHEM**
Prep Date: **12/09/2008 13:51**
Cal Date: **12/09/2008 10:13**
Run Date: **12/09/2008 13:51**
File ID: **SC08121008321901**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Nitrogen, Nitrate-Nitrite		0.213		0.0500	0.0250

2.3.1.2 QC Summary Data

Example Nitrate Calculations

$$(\text{absorbance} - \text{intercept}) / (\text{slope} * \text{dilution}) = \text{mg/L}$$

where:

absorbance = reading from the spectrophotometer

intercept = calculated from calibration standard absorbencies

slope = calculated from calibration standard absorbencies

dilution = dilution of the distillate in decimal form (ex. 1/5 dilution = 0.2)

Microbac Laboratories Inc.

Data Checklist

Date: 09-DEC-2008

Analyst: DIH

Analyst: NA

Method: NO3

Instrument: SC

Curve Workgroup: NA

Runlog ID: _____

Analytical Workgroups: WG289921 WG289920

Calibration/Linearity	12/9/2008
Second Source Check	X
ICV/CCV (std)	X
ICB/CCB	X
Blank	X
LCS/LCS Dup	X
MS/MSD	X
Duplicate	X
Upload Results	X
Client Forms	X
QC Violation Sheet	
Case Narratives	X
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	DIH
Secondary Reviewer	
Comments	

Primary Reviewer:
12-DEC-2008

Secondary Reviewer:



Analytical Method:353.2

AAB#:WG289920

Login Number:L08120101

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
49WW07-120208	12/02/08	12/04/08	12/09/08	28	7.05	12/09/08	28	7.05	
49WW05-120208	12/02/08	12/04/08	12/09/08	28	6.99	12/09/08	28	6.99	
49WW08-120308	12/03/08	12/04/08	12/09/08	28	6.12	12/09/08	28	6.12	
49WW07-120208-FD	12/02/08	12/04/08	12/09/08	28	7.05	12/09/08	28	7.05	
49WW06-120308	12/03/08	12/04/08	12/09/08	28	6.05	12/09/08	28	6.05	
49WW04-120308	12/03/08	12/04/08	12/09/08	28	6.15	12/09/08	28	6.15	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

METHOD BLANK SUMMARY

Login Number: L08120101
 Blank File ID: SC08121008292601
 Prep Date: 12/09/08 13:51
 Analyzed Date: 12/09/08 13:51
 Analyst: DIH

Work Group: WG289920
 Blank Sample ID: WG289920-01
 Instrument ID: SMARTCHEM
 Method: 353.2

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
49WW07-120208-FD	L08120101-18	SC08121008320601	12/09/08 13:51	
DUP	WG289920-05	SC08121008300301	12/09/08 13:51	
49WW08-120308	L08120101-23	SC08121008321901	12/09/08 13:51	
LCS2	WG289920-03	SC08121008294501	12/09/08 13:51	
49WW06-120308	L08120101-10	SC08121008314301	12/09/08 13:51	
49WW07-120208	L08120101-17	SC08121008320001	12/09/08 13:51	
49WW04-120308	L08120101-21	SC08121008321301	12/09/08 13:51	
LCS	WG289920-02	SC08121008293501	12/09/08 13:51	
49WW05-120208	L08120101-16	SC08121008315401	12/09/08 13:51	

Report Name: BLANK_SUMMARY
 PDF File ID: 1272819
 Report generated 12/10/2008 11:09



Login Number: L08120101 Prep Date: 12/09/08 13:51 Sample ID: WG289920-01
Instrument ID: SMARTCHEM Run Date: 12/09/08 13:51 Prep Method: 353.2
File ID: SC08121008292601 Analyst: DIH Method: 353.2
Workgroup (AAB#): WG289920 Matrix: Water Units: mg/L
Contract #: DACA56-94-D-0020 Cal ID: SMARTC - 09-DEC-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Nitrogen, Nitrate-Nitrite	0.0250	0.0500	0.0250	1	U

SDL Method Detection Limit
PQL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 1272820
10-DEC-2008 11:09



Login Number: L08120101 Analyst: DIH Prep Method: 353.2
Instrument ID: SMARTCHEM Matrix: Water Method: 353.2
Workgroup (AAB#): WG289920 Units: mg/L
QC Key: STD Lot #: STD29818
Sample ID: WG289920-02 LCS File ID: SC08121008293501 Run Date: 12/09/2008 13:51
Sample ID: WG289920-03 LCS2 File ID: SC08121008294501 Run Date: 12/09/2008 13:51

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Nitrogen, Nitrate-Nitrite	1.00	0.997	99.7	1.00	1.02	102	2.28	90 - 110	15	

2.3.1.3 Raw Data

289921

SMARTCHEM RUN LOG

Daily Check

- ☒ Lamp On
☒ Probe Rinse Full
☒ DI Water > 1/2 Full
☒ Wash Solution > 1/2 Full
☒ NO3 Reagent bottle connected / purged
☒ NO3 pH adj to pH 5-9
- ☒ WBL Run
☒ Reagents Full
☒ Dilution H₂O Full
☒ Waste Container Check

- 1) Workgroup
 Plan # 20081209004
 2) Workgroup _____
 Plan # _____
 3) Workgroup _____
 Plan # _____

Analyte	1	2	3
User Prepared Curve	NO3		
SC Prepared Curve			
Position			
1-1	ICV 1.5		
1-2	BIK		
1-3	LCS 1		
1-4	LCS DUP		
1-5	NO2 1		
1-6	12-090-01		
1-7	02		
1-8	0304		
1-9	0406		
1-10	12-142-02	1/4	
1-11	12-101-10		
1-12	16		
1-13	17		
1-14	18		
1-15	21		
1-16	23		
1-17	12-088-01	1/5	color
1-18	02	↓	↓
1-19	03		
1-20	12-177-04		
1-21	05		
1-22	12-168-02	1/5	gas/air
2-1	03	1/5	
2-2	04	1/10	
2-3	05	1/10	↓

NOTES:

- * Run NO2 std on NO3 runs
- * LCS/LCS Dup all parameters
- * MS/MSD (NO3, TKN, NH3)

Position	Analyte	1	2	3
2-4	DUP 168-05	1/10		gas/air
2-5	MS	↓		↓
2-6	MSD	↓		↓
2-7	BIK			
2-8	LCS			
2-9	LCS DUP			
2-10	12-168-06	1/5		gas/air
2-11	07	1/10		↓
2-12	DUP	↓		↓
2-13	MS	↓		↓
2-14	MSD	↓		↓
2-15	12-142-02			
2-16				
2-17				
2-18				
2-19				
2-20				
2-21				
2-22				
2-23				
2-24				
2-25				
2-26				
3-1				
3-2				

DCN#77729



SMARTCHEM RUN LOG

Analyte	1	2	3
Position			
3-3			
3-4			
3-5			
3-6			
3-7			
3-8			
3-9			
3-10			
3-11			
3-12			
3-13			
3-14			
3-15			

Analyte	1	2	3
Position			
3-16			
3-17			
3-18			
3-19			
3-20			
3-21			
3-22			
3-23			
3-24			
3-25			
3-26			
3-27			
3-28			

☐ Chloride EPA 325.2/SM 4500-Cl⁻ E
☐ Sulfate EPA 375.4
☐ Alkalinity EPA 310.2
☒ Nitrate-Nitrite EPA 353.2/SM 4500-NO₃ F

☐ Ammonia EPA 350.1/SM 4500-NH₃ B
☐ TKN EPA 351.2
☐ Phos EPA 365.4

Analyte		
SOP & Revision	NO3 K 3532	
Curve Stock (SC made)	std 29815	
Curve ID (user made)		
ICV	std 29817	NO2 std 30015
CCV	std 29816	
LCS	std 29818	
MS	std 30016 Dilution 0.1/5(25)=0.5	

Comments: _____

Analyst: _____

Deanna Hesson

Date: _____

12/9/08

DCN#77729



MICROBAC (OVD)

SMARTCHEM REPORT

UNITS: MG/L

Method : WNO3 -Unit [mg/L] - EPA 353.2 Nitrate-NitrItc

Smp#[[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
DIL-1	RBL	0.000	0.0242	0.00		1:39:44 PM
DIL-1	RBL	0.000	0.0144	0.00		1:40:56 PM
DIL-1	RBL	0.000	0.0138	0.00		1:42:08 PM
DIL-1	Std-1	0.000	0.0071	0.00		1:43:20 PM
SR5-1	Std-2	0.040	0.0149	0.00		1:44:32 PM
SR5-2	Std-3	0.100	0.0287	0.00		1:45:44 PM
SR5-3	Std-4	0.500	0.1567	0.00		1:46:56 PM
SR5-4	Std-5	1.000	0.3114	0.00		1:48:08 PM
ST-1	Std-6	2.000	0.6404	0.00		1:49:20 PM
1	ICV 1.5	1.512	0.4810	0.00		1:50:32 PM
2	WG289920-01 BLANK	-0.014	-0.0043	0.00	INV,><,LL	1:51:44 PM
3	WG289920-02 LCS	0.997	0.3173	0.00		1:52:56 PM
4	WG289920-03 LCSDUP	1.020	0.3248	0.00		1:54:08 PM
5	NO2	0.907	0.2888	0.00		1:55:20 PM
6	L08120090-01	0.014	0.0047	0.00	><	1:56:32 PM
7	L08120090-02	0.098	0.0315	0.00		1:57:44 PM
8	L08120090-03 ⁰⁴	0.010	0.0033	0.00	><	1:58:56 PM
9	L08120090-04 ⁰⁶	0.003	0.0011	0.00	><	2:00:08 PM
10	L08120142-02 (4)	0.028 ^X	0.0092	0.00		2:01:20 PM
ST-2	CCV (1 mg/L)	1.004	0.3197	100.44		2:02:32 PM
ST-3	CCB (0 mg/L)	-0.020	-0.0061	0.00	INV,><,LL	2:03:44 PM
11	L08120101-10	1.364	0.4341	0.00		2:04:56 PM
12	L08120101-16	2.171 ^X	0.6908	0.00	><,LH	2:06:08 PM
13	L08120101-17	0.661	0.2106	0.00		2:07:20 PM
14	L08120101-18	0.637	0.2028	0.00		2:08:33 PM
15	L08120101-21	1.723	0.5482	0.00		2:09:45 PM
16	L08120101-23	0.213	0.0679	0.00		2:10:57 PM
17	L08120088-01 (5)	0.018	0.0058	0.00	><	2:12:09 PM
18	L08120088-02 (5)	0.022	0.0072	0.00		2:13:21 PM
19	L08120088-03 (5)	-0.014	-0.0041	0.00	INV,><,LL	2:14:33 PM
20	L08120177-04	0.016	0.0053	0.00	><	2:15:45 PM
ST-2	CCV (1 mg/L)	0.990	0.3152	99.02		2:16:57 PM

Report Date :12/09/2008

Run Date :12/9/2008

Operator : WESTCO

Plan # :20081209004

Plan Description : NO3-A-DIH/12/9/2008

MICROBAC (OVD)

SMARTCHEM REPORT

UNITS: MG/L

Method : WNO3 -Unit [mg/L] - EPA 353.2 Nitrate-Nitrite

Smp#[/Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
ST-3	CCB (0 mg/L)	-0.014	-0.0042	0.00	INV,><,LL	2:18:09 PM
21	L08120177-05	0.022	0.0073	0.00		2:19:21 PM
22	L08120168-02 (5)	0.001	0.0004	0.00	><	2:20:33 PM
23	L08120168-03 (5)	-0.004	-0.0010	0.00	INV,><,LL	2:21:45 PM
24	L08120168-04 (10)	-0.004	-0.0010	0.00	INV,><,LL	2:22:57 PM
25	L08120168-05 (10)	-0.010	-0.0028	0.00	INV,><,LL	2:24:09 PM
26	DUP 168-05 (10)	-0.007	-0.0019	0.00	INV,><,LL	2:25:21 PM
27	MS 168-05 (10)	0.029	0.0093	0.00		2:26:33 PM
28	MSD 168-05 (10)	0.034	0.0111	0.00		2:27:45 PM
29	WG289921-01 BLANK	-0.019	-0.0058	0.00	INV,><,LL	2:28:57 PM
30	WG289921-02 LCS	0.962	0.3061	0.00		2:30:09 PM
ST-2	CCV (1 mg/L)	0.981	0.3121	98.05		2:31:21 PM
ST-3	CCB (0 mg/L)	-0.012	-0.0037	0.00	INV,><,LL	2:32:33 PM
31	WG289921-03 LCSDUP	0.957	0.3045	0.00		2:33:45 PM
32	L08120168-06 (10)	-0.013	-0.0039	0.00	INV,><,LL	2:34:57 PM
33	L08120168-007 (10)	-0.019	-0.0057	0.00	INV,><,LL	2:36:09 PM
34	DUP 168-07 (10)	-0.016	-0.0048	0.00	INV,><,LL	2:37:21 PM
35	MS 168-07 (10)	0.042	0.0137	0.00		2:38:33 PM
36	MSD 168-07 (10)	0.042	0.0137	0.00		2:39:45 PM
37	ID 3712-142-02	0.132	0.0421	0.00		2:40:57 PM
38	ID 38	-0.009 X	-0.0025	0.00	INV,><,LL	2:42:09 PM
39	ID 39	-0.007 X	-0.0019	0.00	INV,><,LL	2:43:21 PM
40	ID 40	-0.012 X	-0.0036	0.00	INV,><,LL	2:44:33 PM
ST-2	CCV (1 mg/L)	0.973	0.3098	97.32		2:45:45 PM
ST-3	CCB (0 mg/L)	-0.022	-0.0067	0.00	INV,><,LL	2:46:57 PM
12-[1/4]	L08120101-16	2.071	0.1649	0.00	LH	2:56:07 PM
ST-2	CCV (1 mg/L)	0.955	0.3040	95.50		2:57:01 PM
ST-3	CCB (0 mg/L)	-0.023	-0.0071	0.00	INV,><,LL	2:58:13 PM

NO2
0.036

Report Date :12/09/2008

Run Date :12/9/2008

Operator : WESTCO

Plan # :20081209004

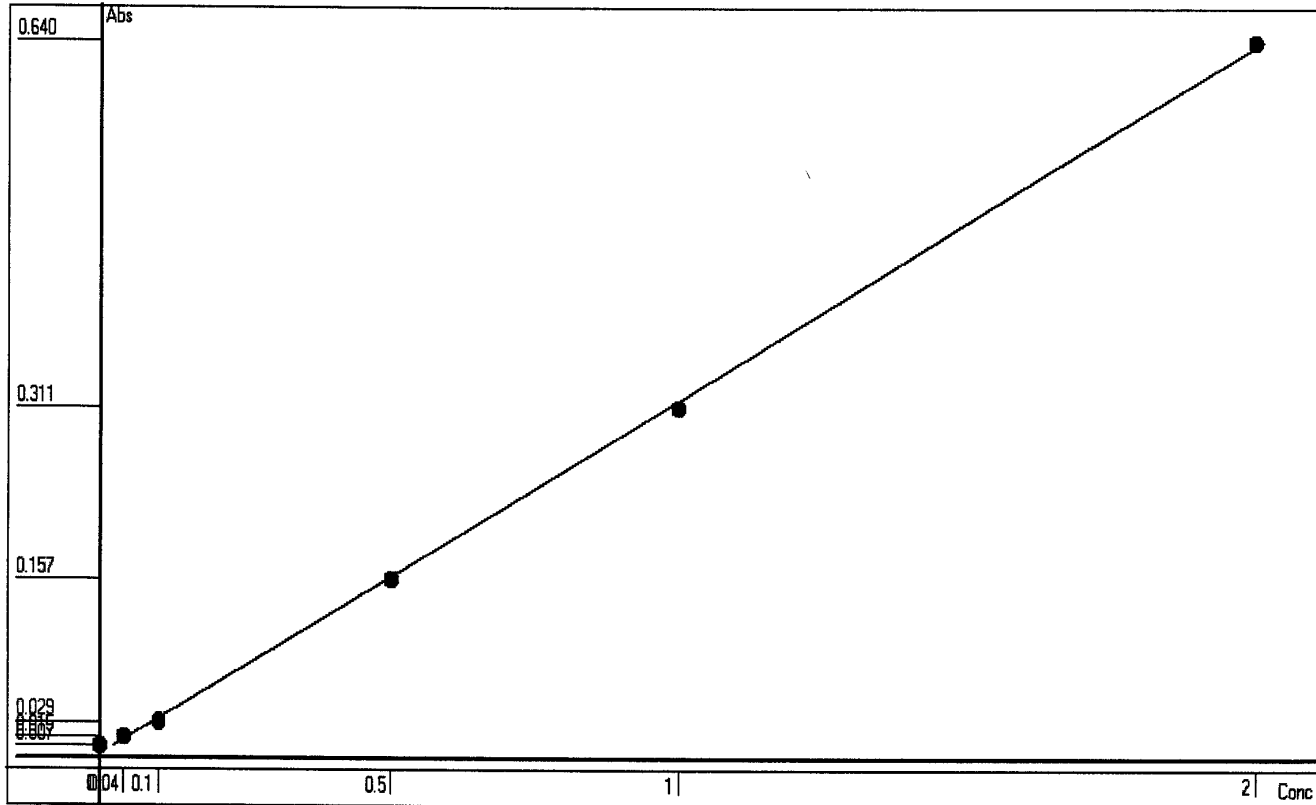
Plan Description : NO3-A-DIH/12/9/2008

Calibrant Report - WNO3 -

00087065

Calib Lot #:010104 Exp Date:1/1/2010 User:Westco Scientific

Plan # : 20081209004 Description : [NO3-A-DIH/12/9/2008] Unit



Point	OD	Conc	Recalc Conc	% Error
1	0.0071	0	0.0216	2.16
2	0.0149	0.04	0.0461	15.25
3	0.0287	0.1	0.0895	-10.50
4	0.1567	0.5	0.4919	-1.62
5	0.3114	1	0.9783	-2.17
6	0.6404	2	2.0127	0.64

Conc= +3.1439*Abso -0.0007 R²=0.9996

RBL
0.0141
0

Report Date 12/9/2008 Run Date 12/9/2008

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
December 15, 2008

ADC - ANTHONY D. CANTER	AJF - AMANDA J. FICKIESEN	ALB - ANNIE L. BROWN
AM - ALISON J. MILLER	AML - ANTHONY M. LONG	BRG - BRENDA R. GREGORY
CAA - CASSIE A. AUGENSTEIN	CAF - CHERYL A. FLOWERS	CAH - CHARLES A. HALL
CEB - CHAD E. BARNES	CLC - CHRYS L. CRAWFORD	CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEPHENS	CPD - CHAD P. DAVIS	CSH - CHRIS S. HILL
CTB - CHRIS T. BUCINA	DDE - DEBRA D. ELLIOTT	DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG	DGB - DOUGLAS G. BUTCHER	DIH - DEANNA I. HESSON
DLB - DAVID L. BUMGARNER	DLP - DOROTHY L. PAYNE	DLR - DIANNA L. RAUCH
DR - DEANNA ROBERTS	DSF - DEBRA S. FREDERICK	EAB - EDDIE A. BYERS
ECL - ERIC C. LAWSON	ED - EMILY E. DECKER	EDA - ERIN D. AGEES
EDH - ETHAN D. MORRIS	ERP - ERIN R. PORTER	FJB - FRANCES J. BOLDEN
HAV - HEMA VILASAGAR	HJR - HOLLY J. REED	JBK - JEREMY B. KINNEY
JC - JOHN L. CONLEY	JDH - JUSTIN D. HESSON	JKP - JACQUELINE K. PARSONS
JKT - JANE K. THOMPSON	JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES
JYH - JI Y. HU	KEB - KATHRYN E. BARNES	KHR - KIM H. RHODES
KJW - KATIE J. WIEFERICH	KRA - KATHY R. ALBERTSON	LHT - LANCE H. THOMPSON
LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA	MDA - MIKE D. ALBERTSON
MDC - MICHAEL D. COCHRAN	MES - MARY E. SCHILLING	MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON	NPM - NATHANIEL P. MILLER
PDM - PIERCE D. MORRIS	RAH - ROY A. HALSTEAD	RB - ROBERT BUCHANAN
REK - ROBERT E. KYER	RLK - ROBIN L. KLINGER	RWC - RODNEY W. CAMPBELL
SAV - SARAH A. VANDENBERG	SDH - SHANA D. HINYARD	SDL - SHELLY D. LENT
SLM - STEPHANIE L. MOSSBURG	SLP - SHERI L. PFALZGRAF	SMH - SHAUNA M. HYDE
TDH - TRICIA D. HUCK	TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS	VC - VICKI COLLIER	WTD - WADE T. DELONG

List of Valid Qualifiers

December 15, 2008

Qualkey: STD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B3	Target analyte detected in calibration blank at or above the method reporting limit
C	Confirmed by GC/MS
CG	Confluent growth
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
E1	Concentration estimated. Analyte exceeded calibration range. Insufficient sample for reanalysis.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to matrix.
E3	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration is disproportionate to the spike level.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria fail. See narrative.
Q1	Sample integrity was not maintained. See report narrative.
QNS	Quantity of sample not sufficient to perform analysis
R1	Duplicate RPD/RSD exceeded the method acceptance limit.
R2	Duplicate RPD/RSD exceeded the laboratory acceptance limit.
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Undetected; the concentration is below the reported MDL.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	CCV recovery was above method acceptance limits. Insufficient volume for sample reanalysis.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

***Special Notes for Organic Analytes



Qualkey: STD

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.





Shaw® Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Chain of Custody

Laboratory Name: <u>microbac Labs</u>				Address: <u>158 Starlite Dr Marionetta, Ohio</u>				Contact: <u>Stephanie Mossborge (740) 373-4071</u>								
Project Name <u>Longhorn AAP</u>			Project Location <u>Karnack, Tx</u>			Analysis and Method Desired (Indicate separate containers)				Remarks						
Project No. <u>117591.63500000</u>			Project Contact <u>Jennifer Hany</u>		Project Telephone No. <u>713 996 4408</u>			Number of Containers	VOC <u>8260</u>	TAL Metals <u>353.02</u> Nitrates/Nitrites						
Point of Contact: <u>Allen Willmore</u>			Project Manager/Supervisor: <u>Praveen Srivastav</u>													
Telephone No. <u>713 996 4586</u>																
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location									
1	16WU46-120108	12/1/08	1340		✓	W	16	3	X							
2	16WU42-120108	12/1/08	1145		✓	W	16	3	X							
3	16WU43-120108	12/1/08	1040		✓	W	16	3	X							
4	16WU45-120208	12/2/08	1015		✓	W	16	3	X							
5	16WU45-120208 - FD	12/2/08	1015		✓	W	16	2	X							Field duplicate
6	16WU45-120208 - ms	12/2/08	1015		✓	W	16	2	X							ms
7	16WU45-120208 - msd	12/2/08	1015		✓	W	16	2	X							msd
8	03WU01-120408	12/2/08	1705		✓	W	03	4	X	X						
9	35AWU06-120308	12/3/08	1425		✓	W	35A	4	X	X						
10	49WU06-120308	12/3/08	1240		✓	W	49	2		X	X					
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions								
<u>M. Allen</u>		12/03/08 17:00		<u>R. K. G.</u>		12/4/08 945		7-day TAT								
								FedEx Airbill No.:								
				Laboratory				Sampler's Signature <u>M. Allen</u>								
TAT: <u>7-day</u> Standard _____ Rush Date _____ Seals Intact? _____ Y _____ N _____ Received Good Condition _____ Y _____ N _____ Cold _____																

Shaw Shaw Environmental & Infrastructure, Inc.
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 Houston, TX 77042
 (713) 996-4400

Chain of Custody

Laboratory Name: <u>MICROBAC LABS</u>		Address: <u>158 Starlite Drive Marietta, Ohio</u>		Contact: <u>Stephanie Morsburg (740) 373-4071</u>											
Project Name <u>Longhorn AAP</u>		Project Location <u>Karnack, Tx</u>		Analysis and Method Desired (Indicate separate containers)											
Project No. <u>117591.63500000</u>		Project Contact <u>Jennifer Hoang</u>		Project Telephone No. <u>(713) 996-4408</u>											
Point of Contact: <u>Allen Willmore</u>		Project Manager/Supervisor: <u>Praveen Srivastav</u>		Remarks <u>TRIP BLANK INCL FOR VOCs</u>											
Telephone No. <u>(713) 996-4586</u>															
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	VOC 8260	TAC METALS method 353.2 Nitrate/Nitrites					
1	3SAWW08-112408	11/24/08	12:25		✓	W	3SA	4	X	X					
2	3SAWW07-112408	11/24/08	09:50		✓	W	3SA	4	X	X					
3	3SAWW02-112608	11/24/08	09:35		✓	W	3SA	4	X	X					
4	3SAWW02-112608-FD	11/24/08	09:35		✓	W	3SA	4	X	X					Field Duplicate
5	LHSMW04-112508	11/25/08	11:45		✓	W	3SA	4	X	X					
6	49WLW05-120208	12/2/08	14:10		✓	W	49	1		X					
7	49WLW07-120208	12/2/08	12:45		✓	W	49	4	X	X	X	- use parent volume			Nitrate/Nitrites only
8	49WLW07-120208-FD	12/2/08	12:45		✓	W	Field Duplicate 49	4	X	X	X				Nitrate/Nitrites only Field Duplicate
9	16LW44-120108	12/1/08	12:30		✓	W	16	3	X						
10	16LW41-120208	12/2/08	11:15		✓	W	16	3	X						
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions							
<u>M. Allen</u>		12/3/08 17:00		<u>Praveen Srivastav</u>				7-day TAT							
								FedEx Airbill No.:							
								Sampler's Signature <u>M. Allen</u>							
TAT: <u>7-day</u> Standard		Rush Date		Seals Intact? <u>Y</u>		Received Good Condition <u>Y</u>		Cold							

NO. 5743



Shaw® Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
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(713) 996-4400

Chain of Custody

Laboratory Name: Micro pac Labs				Address: 158 Sterlite Dr Mannetta, Ohio				Contact: Stephanie Mossburg 740 373 4071				
Project Name Longhorn AAP				Project Location Karnack, Tx				Analysis and Method Desired (Indicate separate containers)				
Project No. 117591.67500000				Project Contact Jennifer Hony		Project Telephone No. 713 996 4408		Number of Containers 353.02 Nitrates/Nitrites				
Point of Contact: Allen Willmore				Project Manager/Supervisor: Praveen Srivastava								
Telephone No. 713 996 4586												
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location					
1	49WW04-120308	12/03	1015		✓	W	49	1	X			
2	49WW08-120308	12/3	11:00						X			
3												
4												
5												
6												
7												
8												
9												
10												
Transfers Relinquished By (signature) M. McC...				Date/Time 12/03/08 17:00		Transfers Accepted By (signature)		Date/Time		Special Instructions 7-day TAT		
										FedEx Airbill No.:		
						Laboratory Signature [Signature]		Date/Time 12/4/08 9:45		Sampler's Signature M. McC...		
TAT: 7-day Standard				Rush Date		Seals Intact? Y ☒ N ☐		Received Good Condition Y ☒ N ☐		Cold ☐		

Client:	Shaw - Conagher			
Workorder Number:	B-9084 (?) 8767			
Date Received:	12-4-08			
Delivered by:	() Fedx	(X) UPS	() Client	() Courier Time: 945
Opened by:	RLK			
IR Temp Gun:	(X) D	() G		
Logged by:	RLK/JKT		L 0812-0101	

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
987	3	1266V 725019163 4291	5741, 5742, 5743	water

Inspection Checklist

	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	✓			
Were custody seals intact?	✓			
Were cooler temperatures in range of 0 - 6?	✓			
Was ice present?	✓			
Were COC's received/ information complete/signed and dated?	✓			
Were sample containers and labels intact and match COC?			✓	(1)
Were the correct containers and volumes received?	✓			
Were correct preservatives used? (water only)	✓			
Were pH ranges acceptable? (voa's excluded)	✓			
Were VOA samples free of headspace (< 6mm)?	✓			
Were samples received within EPA hold times?	✓			

Discrepancy/Comments/Other Problems

(1) Did not receive Nitrate/Nitrite for Sample 496W07-120308 FD@ 1245

Did receive a Nitrite/Nitrate Bottle for 496W08-120308@1100 — Log

Receive set of Trip Blanks (2) not in COC, OK top right # 5742

SKT 12/4/08

ID35AWW02-112608 - date wrong on chain/bottle reads 112608

Distribution

Name of Microbac representative:
Client/Company:
Person Contacted:
Date contacted:

Resolution/other comments:

Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-18 532022 N03N02

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	ANALYZ	W1	WET	09-DEC-2008 12:37	DIH	ERE
3	STORE	WET	A1	10-DEC-2008 08:33	JKT	DIH

Samplenum **Container ID** **Products**
L08120101-04 532000 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-08 532004 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-13 532014 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-15 532018 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-21 532025 N03N02

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	ANALYZ	W1	WET	09-DEC-2008 12:37	DIH	ERE
3	STORE	WET	A1	10-DEC-2008 08:33	JKT	DIH

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-10 532008 N03N02

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	ANALYZ	W1	WET	09-DEC-2008 12:37	DIH	ERE
3	STORE	WET	A1	10-DEC-2008 08:33	JKT	DIH

Samplenum **Container ID** **Products**
L08120101-09 532007 AS-MS BA-MS CD-MS CR-MS HG ZN NA V DIG-ICP PB-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

Samplenum **Container ID** **Products**
L08120101-05 532001 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-22 532026 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-16 532020 N03N02

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	ANALYZ	W1	WET	09-DEC-2008 12:37	DIH	ERE
3	STORE	WET	A1	10-DEC-2008 08:33	JKT	DIH

Samplenum **Container ID** **Products**
L08120101-15 532019 AS-MS BA-MS CD-MS CR-MS PB-MS DIG-ICP HG ZN NA

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

Samplenum **Container ID** **Products**
L08120101-10 532009 AS-MS BA-MS CD-MS CR-MS HG DIG-ICP ZN NA V K F

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-20 532024 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-14 532017 AS-MS BA-MS CD-MS CR-MS PB-MS DIG-ICP HG ZN NA

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

Samplenum **Container ID** **Products**
L08120101-02 531998 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-07 532003 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-09 532006 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-06 532002 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-14 532016 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-17 532021 N03N02

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	ANALYZ	W1	WET	09-DEC-2008 12:37	DIH	ERE
3	STORE	WET	A1	10-DEC-2008 08:33	JKT	DIH

Samplenum **Container ID** **Products**
L08120101-12 532013 AS-MS BA-MS CD-MS CR-MS DIG-ICP HG ZN NA V K S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum **Container ID** **Products**
L08120101-03 531999 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-11 532010 826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Samplenum **Container ID** **Products**
L08120101-23 532027 N03N02

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	ANALYZ	W1	WET	09-DEC-2008 12:37	DIH	ERE
3	STORE	WET	A1	10-DEC-2008 08:33	JKT	DIH

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08120101-13	532015	AS-MS BA-MS CD-MS CR-MS PB-MS DIG-ICP HG ZN NA

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08120101-11	532011	AS-MS BA-MS CD-MS CR-MS DIG-ICP HG ZN NA V K S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08120101-19	532023	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120101

Account: 2773

Project: 2773.025

Samples: 23

Due Date: 11-DEC-2008

Samplenum	Container ID	Products
L08120101-08	532005	AS-MS BA-MS CD-MS CR-MS DIG-ICP HG ZN NA V PB-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	04-DEC-2008 14:07	RLK	
2	PREP	W1	DIG	04-DEC-2008 14:52	REK	JKT
3	EXTRACT	DIG	METALS	05-DEC-2008 07:19		REK
4	STORE	DIG	A1	05-DEC-2008 13:42	ERE	REK

Samplenum	Container ID	Products
L08120101-01	531997	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:36	MRT	JKT

Samplenum	Container ID	Products
L08120101-12	532012	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 2

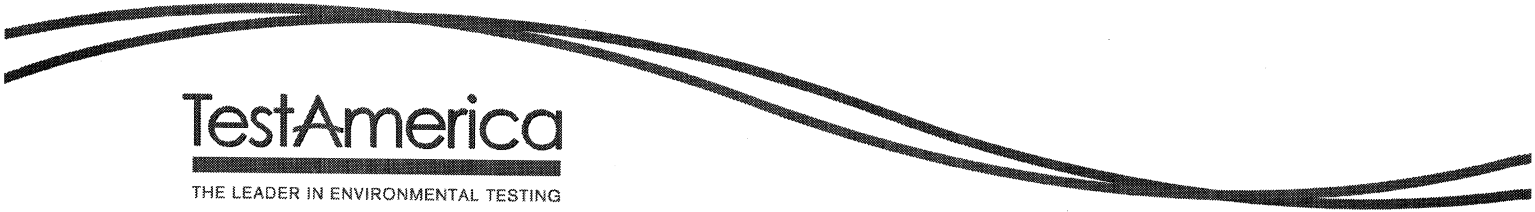
Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	04-DEC-2008 14:07	RLK	
2	ANALYZ	V1	ORG4	04-DEC-2008 14:37	MRT	JKT

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login



**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-42849-1

Job Description: Shaw Longhorn

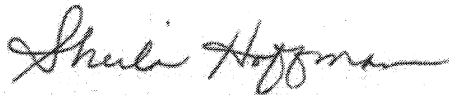
For:

Microbac Laboratories, Inc.

158 Starlite Drive

Marietta, OH 45750

Attention: Ms. Stephanie Mossburg



Approved for release.
Sheila Hoffman
Project Manager I
12/8/2008 3:04 PM

Sheila Hoffman
Project Manager I

sheila.hoffman@testamericainc.com

12/08/2008

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LA000244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404

Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Job Narrative
680-J42849-1**Comments**

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

Method(s) 314.0: Sample 680-42849-1 was analyzed at a dilution of 1:2 due to the Matrix Conductivity Threshold of the instrument. The reporting limits have been adjusted accordingly.

No other analytical or quality issues were noted.

METHOD SUMMARY

Client: Microbac Laboratories, Inc.

Job Number: 680-42849-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Perchlorate (IC)	TAL SAV	EPA 314.0	

Lab References:

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SAMPLE SUMMARY

Client: Microbac Laboratories, Inc.

Job Number: 680-42849-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-42849-1	16WW19-120408	Water	12/04/2008 1236	12/05/2008 1005
680-42849-2	16WW20-120408	Water	12/04/2008 1000	12/05/2008 1005
680-42849-3	16WW20-120408-FD	Water	12/04/2008 1000	12/05/2008 1005
680-42849-4	16WW21-120408	Water	12/04/2008 1055	12/05/2008 1005

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-42849-1 SDG Number: Shaw Longhorn

Client Sample ID: 16WW19-120408

Lab Sample ID: 680-42849-1 Date Sampled: 12/04/2008 12:36
Client Matrix: Water Date Received: 12/05/2008 10:05

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0,Water												
Perchlorate	14797-73-0	0.22	U		0.11	1.0	0.22	ug/L	12/05/2008 16:15	124577	2	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-42849-1 SDG Number: Shaw Longhorn

Client Sample ID: 16WW20-120408 Date Sampled: 12/04/2008 10:00 Date Received: 12/05/2008 10:05

Lab Sample ID: 680-42849-2 Client Matrix: Water

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst

Method: EPA 314.0,Water

Perchlorate	14797-73-0	0.11	U		0.11	1.0	0.11	ug/L	12/05/2008 16:30	124577	1	CB

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-42849-1 SDG Number: Shaw Longhorn

Client Sample ID: 16WW20-120408-FD

Lab Sample ID: 680-42849-3 Date Sampled: 12/04/2008 10:00
Client Matrix: Water Date Received: 12/05/2008 10:05

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Perchlorate	14797-73-0	0.11	U		0.11	1.0	0.11	ug/L	12/05/2008 17:00	124577	1	CB

Method: EPA 314.0, Water

Analytical Data

Client: Microbac Laboratories, Inc. Project: Shaw Longhorn ATTN: Ms. Stephanie Mossburg Job Number: 680-42849-1
SDG Number: Shaw Longhorn

Client Sample ID: 16VW21-120408

Lab Sample ID: 680-42849-4 Date Sampled: 12/04/2008 10:55
Client Matrix: Water Date Received: 12/05/2008 10:05

TEST METHOD	CAS #	RESULT	Q	FLAG	MDL	MQL	SDL	UNITS	Analysis Date/Time	Batch	D.F.	Analyst
Method: EPA 314.0, Water												
Perchlorate	14797-73-0	0.11	U		0.11	1.0	0.11	ug/L	12/05/2008 17:30	124577	1	CB

DATA REPORTING QUALIFIERS

Client: Microbac Laboratories, Inc.

Job Number: 680-42849-1

Lab Section	Qualifier	Description
HPLC	U	Indicates the analyte was analyzed for but not detected.

Quality Control Results

Client: Microbac Laboratories, Inc.

Job Number: 680-42849-1

Method Blank - Batch: 680-124577

Method: 314.0
Preparation: N/ALab Sample ID: MB 680-124577/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/05/2008 1130
Date Prepared: N/AAnalysis Batch: 680-124577
Prep Batch: N/A
Units: ug/LInstrument ID: ICCS200 - H
Lab File ID: 0005.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	Result	Qual	MDL	RL
Perchlorate	0.11	U	0.11	1.0

Lab Control Spike - Batch: 680-124577

Method: 314.0
Preparation: N/ALab Sample ID: LCS 680-124577/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/05/2008 1200
Date Prepared: N/AAnalysis Batch: 680-124577
Prep Batch: N/A
Units: ug/LInstrument ID: ICCS200 - H
Lab File ID: 0007.d
Initial Weight/Volume:
Final Weight/Volume: 5 mL
Injection Volume: 0.25 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Perchlorate	10.0	10.2	102	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.



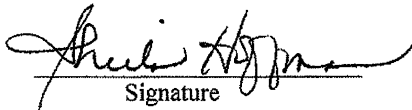
TestAmerica Savannah
 TRRP Laboratory Data Package Cover Page
 SDG / Log #: 680-42849
 Fraction: LC/314.0 Perchlorate

This data package consists of this signature page, the Laboratory Review Checklist, and the following reportable data:

- ☒ Field chain-of-custody documentation
- ☒ Sample identification cross-reference
- ☒ Test reports (analytical data sheets) for each environmental sample that includes:
 - Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - Dilution factors
 - Preparation methods
 - Clean-up methods
 - TICs (if required for the project)
- ☐ Surrogate recovery data including:
 - Calculated %R
 - Laboratory surrogate QC limits
- ☒ Test reports / Summary forms for blank samples
- ☒ Test reports / Summary forms for laboratory control samples (LCSs) including:
 - LCS spiking amounts
 - Calculated %R for each analyte
 - Laboratory LCS QC limits
- ☒ Test reports for project matrix spike/matrix spike duplicates (MS/MSD) including:
 - Samples associated with MS/MSD clearly identified
 - MS/MSD spiking amounts
 - Concentration of each MS/MSD analyte measured in the parent and spiked samples
 - Calculated %Rs and relative percent differences (RPD)
 - Laboratory MS/MSD QC limits
- ☒ Laboratory analytical duplicate (if applicable) recovery and precision
 - Amount of analyte measured in the duplicate
 - Calculated RPD
 - Laboratory QC limits for analytical duplicates
- ☒ List of method quantitation limits for each analyte for each method and matrix
- ☒ Other problems and anomalies
- ☒ The Exception Report for every "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist

Release Statement: *I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory as having potential to affect the quality of the data have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.*

Sheila Hoffman
 Name (Printed)


 Signature

Project Manager
 Official Title

12/08/08
 Date



TestAmerica Savannah
TRRP Laboratory Review Checklist

SDG / Log #: 68042849/ 680-42849
Fraction: 314.0

Date: 12.08.08

Reviewer Name: C. Brazell

Prep Batch Numbers: 124577

Instrument ID: ICH

#1	A2	Description	Yes	No	NA ³	NR ⁴	ER ⁵
R1	O1 (QA/PM)	Chain-of-Custody (COC)					
		Did each sample meet the laboratory's sample acceptance policy upon receipt? (This includes cooler temperatures, sample IDs, correct COC, etc.)	X				
		Are all sample receipt issues described in an exception report and noted in the case narrative?	X				
R2	O1 (QA/PM)	Sample and Quality Control (QC) Identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers? (This information is included in the case narrative table and/or LIMS report.)	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data? (This information is included on the forms and/or LIMS report.)	X				
R3	O1	Test Reports					
		Were all samples prepared within holding times?	X				
		Were all samples analyzed within holding times?	X				
		Were all hits >MQL (RL) within the instrument's calibration range?	X				
		If hits are not within the calibration range, have the data been flagged with the appropriate qualifiers and additional runs reported?			X		
		Were calculations reviewed by a peer or supervisor?	X				
		Were analyte identifications reviewed by a peer or supervisor?	X				
		Were sample quantitation limits reported for all undetected analytes? (This information is included on the forms and/or LIMS report.)	X				
		Were the results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		If required for the project, were TICs reported?			X		
R4	O	Surrogate Recovery Data					
		Were surrogates added prior to extraction, as required by the method?			X		
		Were all surrogate percent recoveries within the laboratory QC limits? (Note ANY failing surrogate in the Exception Report.)			X		
R5	O1	Test Reports/ Summary Forms for Blanks					
		Were the appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL (RL)?	X				
R6	O1	Laboratory Control Samples (LCS)					
		Were all COCs included in the LCS? (Were full-list spikes used?)	X				
		Was each LCS taken through the entire analytical procedure, including preparation and, if applicable, cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) % Rs within laboratory QC limits? (Note ANY failing spike analyte in the Exception Report.)			X		
		If performed, was the LCSD %RPD within QC limits? (Note ANY failing spike analyte in the Exception Report.)			X		
R7	O1	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were the MS/MSD analyzed at the appropriate frequency?	X				
		Were MS/MSD %Rs within the laboratory QC limits? (Note ANY failing spike analyte in the Exception Report.)	X				
		Were MS/MSD RPDs within laboratory QC limits? (Note ANY failing spike analyte in the Exception Report.)	X				

SDG / Log #: 68042849/ 680-42849

Fraction: 314.0

Date: 12.08.08
Reviewer Name: C. Brazell
Prep Batch Numbers: 124577
Instrument ID: ICH

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R8	I	Analytical Duplicate Data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	Q1	Method Quantitation Limits (MQLs):					
		Are the MQLs (RLs) for each analyte included in the laboratory data package? (This information is included on the forms and/or LIMS report.)	X				
		Do the MQLs (RLs) correspond to the concentration of the lowest non-zero calibration standard, where applicable?	X				
		Have the unadjusted MQLs (RLs) been included in the laboratory data package? (This information is included on the forms and/or LIMS report.)	X				
R10	Q1	Other Problems/Anomalies					
		Are all known problems, anomalies, and/or special conditions noted in the Laboratory Review Checklist and the Exception Report?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SQL (RL) to minimize the matrix interference effects on the sample results, as applicable?	X				
S1	Q1	Initial Calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSD or correlation coefficient criteria met? (Note ANY use of Grand Mean in the Exception Report.)	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard? (Note any ICV outliers in the Exception Report.)	X				
S2	Q1	Initial & Continuing Calibration Verification (ICCV & CCV)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits? (Note ANY use of Grand Mean in the Exception Report.)	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	Q1	Mass Spectral Tuning:					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	Q1	Internal Standards (IS):					
		Were IS area counts within the method-required QC limits?			X		
		Were IS retention times within the method-required QC limits?			X		
S5	Q1	Raw Data					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	Q1	Dual Column Confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	Q1	Tentatively Identified Compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, Post Digestion Spikes, and Method of Standard Additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		1



TestAmerica Savannah
TRRP Laboratory Review Checklist

SDG / Log #: 68042849/ 680-42849
Fraction: 314.0

Date: 12.08.08
Reviewer Name: C. Brazell
Prep Batch Numbers: 124577
Instrument ID: ICH

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S10	OI	Method Detection Limit (MDL) Studies					
		Has an MDL study been performed for each analyte?	X				
		Has a DCS been performed for each analyte within the last 3 months? (If not, then list the estimated completion date in the Exception Report.)	X				
		Does the DCS meet the acceptance criteria and support the MDL?	X				
		If the DCS does not meet criteria, has the associated MDL been raised to the appropriate level?	X				
S11	OI	Proficiency Test Reports:					
		Has the laboratory participated in the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		Are all standards used NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound / Analyte Identification Procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		Has a DOC been performed as is consistent with NELAC Chapter 5C or ISO/IEC 4 for each analyst and analyte associated with this analysis?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification / Validation Documentation for Methods					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed?	X				

- Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses; PM = Project Management; QA = Quality Assurance
- NA = Not applicable.
- NR = Not Reviewed.
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

**TestAmerica Savannah
TRRP Laboratory Review Checklist****SDG / Log #:** 68042849/ 680-42849
Fraction: 314.0

Date: 12.08.08
Reviewer Name: C. Brazell
Prep Batch Numbers: 124577
Instrument ID: ICH

Exception Reports	
ER # ¹	DESCRIPTION
1	Sample 680-42849-1 required a dilution due to the matrix conductivity threshold of the instrument. The reporting limit has been adjusted accordingly.
2	
3	
4	

1. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LCR).

Chain of Custody

NO. 5738

Shaw Shaw Environmental & Infrastructure, Inc.
 3010 Briarpark Drive, Suite 400
 Houston, TX 77042
 (713) 996-4400

12/08/2008

Laboratory Name: Test America				Address: 5102 La Roche Ave. Savannah, Ga 31404				Contact: Sheila Hoffmann (912) 354-7858 ext. 3004			
Project Name: Longhorn AAP				Project Location: Kernack, Tx				Analysis and Method Desired (Indicate separate containers)			
Project No.: 117591. 63500000				Project Contact: Stephanie Messburg (800) 373 4631				Project Telephone No.: 117591. 63500000			
Point of Contact: Allen Willmore				Project Manager/Supervisor: Praveen Srivastava				Remarks: 24-hr TAT			
Telephone No.: (713) 247-9393											
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers	Field Duplicate	Remarks	
1	16 WVI 19-120408	12/4/08	12:36		✓	W	SITE 16	1	X		
2	16 WVI 20-120408	12/4/08	10:00		✓	W	SITE 16	1	X		
3	16 WVI 20-120408 (FD)	12/4/08	10:00		✓	W	SITE 16	1	X		
4	16 WVI 21-120408	12/4/08	10:55		✓	W	SITE 16	1	X	Field Duplicate	
5											
6											
7											
8											
9											
10											
Transfers Relinquished By (signature)				Date/Time				Transfers Accepted By (signature)			
<i>Allen Willmore</i>				12/4/08 17:00				<i>Praveen Srivastava</i>			
								Date/Time			
								12/5/08 09:02			
								Special Instructions			
								24-hr TAT 630-42849 3.10c			
								FedEx Airbill No.:			
								Sampler's Signature			
								<i>Allen Willmore</i>			
TAT: 24 hr Standard				Rush Date				Seals Intact? Y N Received Good Condition Y N Cold			

White - Lab Copy Canary - Field Copy Pink - File Copy

Form Number: 433_2

Rev. 10-19-07



Shaw® Shaw Environmental & Infrastructure, Inc.
3010 Briarpark Drive, Suite 400
Houston, TX 77042
(713) 996-4400

Chain of Custody

NO. 5738

Laboratory Name: TEST AMERICA		Address: 5102 La Roche Ave. Savannah, Ga 31404		Contact: Sheila Hoffman (912) 354-7858 ext. 3004					
Project Name: Longhorn AAP	Project Location: Kennett, Tx	Project Contact: Stephanie Messburg		Analysis and Method Desired (Indicate separate containers)					
Project No.: 117591.63500000	Project Telephone No.: 1800) 373 4071	Project Manager/Supervisor: Praveen Srivastav		Remarks: 24-hr TAT					
Point of Contact: Allen Willmore		Telephone No.: (713) 247-9292		Number of Containers: 1					
Sample Number		Date	Time	Comp	Grab	Matrix	Sample Description, Location	Date/Time	Special Instructions
1	16WW19-120408	12/4/08	12:36		✓	W	SITE 16	12/5/08 10:00 appt. 6:00	24-hour TAT 680-42849
2	16WW20-120408	12/4/08	10:00		✓	W	SITE 16		
3	16WW20-120408-FD	12/4/08	10:00		✓	W	SITE 16		
4	16WW21-120408	12/4/08	10:55		✓	W	SITE 16		Field Duplicate
5									
6									
7									
8									
9									
10									
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions	
<i>Allen Willmore</i>		12/4/08 17:00		<i>Praveen Srivastav</i>		12/5/08 10:00 appt. 6:00		24-hour TAT 680-42849	
TAT: 24 hr Standard		Rush Date		Seals Intact? Y N		Received Good Condition Y N		Cold	
FedEx Airbill No.:		Laboratory		Sampler's Signature <i>Allen Willmore</i>		Sampler's Signature <i>Praveen Srivastav</i>		Cold	

White - Lab Copy Canary - Field Copy Pink - File Copy

Form Number: 433_2
Rev. 10-19-07

00087100

Quick Facts



Look closer. Go further. Do more.

Corporate Information:

Microbac Laboratories, Inc.

Franklin Corporate Center

2000 Corporate Drive, Suite 350

Wexford, PA 15090

Phone: (724) 934-5030

FAX: (724) 934-5088

www.microbac.com

President & CEO: J. Trevor Boyce

Federal Tax ID#: 25-1199-642

DUNS#: 048192892

Incorporated in the State of PA -- May 1, 1969

Employees Corporate-Wide: 467

Facilities Corporate -Wide: 18 Divisions, 28 locations across 15 states



Microbac Laboratories Inc.
Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Phone: 800-373-4071
Fax: 740-373-4835
Email: OVL@microbac.com



Please note these administrative changes for our Ohio Valley Division laboratory in Marietta, OH (formerly KEMRON Environmental Services, Inc.), in particular the address, which is a revised routing of remittances on our invoices. All invoices dated April 1, 2008 or later will reflect this change, and will be highlighted with an attention-getting sticker during our transition. Please adjust your records to ensure proper routing of payments.



158 Starlite Drive, Marietta, OH 45750 • T:740-373-4071 • F:740-373-4835 • <http://www.microbac.com>

Laboratory Report Number: L08120133

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories.

Review and compilation of your report was completed by Microbac's Sales and Service Team. If you have questions, comments or require further assistance regarding this report, please contact your team member noted in the reviewed box below at 800-373-4071. Team member e-mail addresses also appear here for your convenience.

Kathy Albertson	<i>Team Chemist/Data Specialist</i>	kalbertson@microbac.com
Stephanie Mossburg	<i>Team Chemist/Data Specialist</i>	smossburg@microbac.com
Tony Long	<i>Team Chemist/Data Specialist</i>	tlong@microbac.com
Brenda Gregory	<i>Client Services Specialist</i>	bgregory@microbac.com
Amanda Fickiesen	<i>Client Services Specialist</i>	afickiesen@microbac.com
Annie Brown	<i>Client Services Specialist</i>	abrown@microbac.com
Jacqueline Parsons	<i>Team Assistant</i>	jparsons@microbac.com

This report was reviewed on December 15, 2008.

A handwritten signature in cursive script that reads "Stephanie Mossburg".

Stephanie Mossburg - Team Chemist/Data Specialist

I certify that all test results meet all of the requirements of the accrediting authority listed below. 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. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories.

This report was certified on December 15, 2008.

A handwritten signature in cursive script that reads "David E. Vandenberg".

David Vandenberg - Managing Director

State of origin: Texas

Accrediting authority: Texas Commission on Environmental Quality ID:T104704252-07-TX

QAPP: Microbac (OVD) LQAP

This report contains a total of 84 pages.

Look closer. Go further. Do more.



Microbac REPORT L08120133
PREPARED FOR Shaw E I, Inc.
WORK ID:

1.0 Introduction	4
2.1 Volatiles Data	10
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2.1.1.1 Summary Data	12
2.1.1.2 QC Summary Data	28
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1.0 Introduction

Microbac Laboratories Inc.
REPORT NARRATIVE

Microbac Login No: L08120133

CHAIN OF CUSTODY: The chain of custody number was 5737.

SHIPMENT CONDITIONS: The chain of custody forms were received sealed in a cooler. The cooler temperature was 0 degrees C.

SAMPLE MANAGEMENT: All samples received were intact.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Approved: 15-DEC-08

<i>Stephanie Mossburg</i>

This data Package consists of:

This signature page, the laboratory review checklists, and the following reportable data:

- ✓R1 Field chain-of-custody documentation;
- ✓R2 sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
 - b) dilution factors,
 - c) preparation methods,
 - d) Cleanup methods, and
 - e) If required for the project, tentatively identified compounds (TICs)
- ✓R4 Surrogate recovery data including:
 - a) Calculated recovery (%R) for each analyte, and
 - b) The laboratory's surrogate QC limits.
- ✓R5 Test reports/summary forms for blank samples;
- ✓R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amount,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- ✓R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %R and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- ✓R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- ✓R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- ✓R10 Other problems or anomalies.
- ✓The exception Report for every "No" or "Not Reviewed (NR)" item IN laboratory review checklist.

Release statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exceptions reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Check, if applicable: ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

MIKE D. ALBERTSON



Volatiles Lab Supervisor

December 11, 2008

Name (Printed)

Signature

Official Title (printed)

DATE

Microbac Laboratories Inc.
Laboratory Review Checklist

Laboratory Name: Microbac Laboratories Inc.
 Laboratory Log Number: L08120133
 Project Name: 798-LONGHORN
 Method: 8260B
 Prep Batch Number(s): WG289859, WG289946
 Reviewer Name: MIKE D. ALBERTSON
 LRC Date: December 08, 2008

Description	Yes	No	NA(1)	NR(2)	ER(3)
Chain-Of-Custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
Were all departures from standard conditions described in an exception report?	✓				
Sample and quality control (QC) identification					
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
Test reports					
Were all samples prepared and analyzed within holding times?	✓				
Other than those results <MQL, were all other raw values bracketed by calibration standards?	✓				
Were calculations checked by a peer or supervisor?	✓				
Were all analyte identifications checked by a peer or supervisor?	✓				
Were sample quantitation limits reported for all analytes not detected?	✓				
Were all results for soil and sediment samples reported on a dry weight basis?	✓				
Were % moisture (or solids) reported for all soil and sediment samples?	✓				
If required for the project, TICs reported?			✓		
Surrogate recovery data					
Were surrogates added prior to extraction?	✓				
Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	✓				
Were blanks analyzed at the appropriate frequency?	✓				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
Were blank concentrations <MQL?	✓				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	✓				
Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
Were LCSs analyzed at the required frequency?	✓				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		✓			3
Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
Was the LCSD RPD within QC limits?		✓			3
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?			✓		
Were MS/MSD analyzed at the appropriate frequency?			✓		
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		

Description	Yes	No	NA(1)	NA(2)	ER(3)
Were MS/MSD RPDs within laboratory QC limits?			✓		
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			✓		
Were analytical duplicates analyzed at the appropriate frequency?			✓		
Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	✓				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
Are unadjusted MQLs included in the laboratory data package?	✓				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
Were all necessary corrective actions performed for the reported data?	✓				
Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				
ICAL					
Were response factors and/or relative response factors for each analyte within QC limits?	✓				
Were percent RSDs or correlation coefficient criteria met?	✓				
Was the number of standards recommended in the method used for all analytes?	✓				
Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
Are ICAL data available for all instruments used?	✓				
Has the initial calibration curve been verified using an appropriate second source standard?	✓				
Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	✓				
Were percent differences for each analyte within the method-required QC limits?	✓				
Was the ICAL curve verified for each analyte?		✓			1
Was the absolute value of the analyte concentration in the inorganic CCB <MDL?			✓		
Mass spectral tuning:					
Was the appropriate compound for the method used for tuning?	✓				
Were ion abundance data within the method-required QC limits?	✓				
Internal standards (IS):					
Were IS area counts and retention times within the method-required QC limits?		✓			2
Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section 4.12.2)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
Were data associated with manual integrations flagged on the raw data?	✓				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			✓		
Tentatively identified compounds (TICs):					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
Interference Check Sample (ICS) results:					
Were percent recoveries within method QC limits?			✓		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
Method detection limit (MDL) studies					
Was a MDL study performed for each reported analyte?	✓				
Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
Proficiency test reports:					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				

Description	Yes	No	NA(1)	NR(2)	ER(3)
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	✓				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	✓				
Is documentation of the analyst's competency up-to-date and on file?	✓				
Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
Laboratory standard operating procedures (SOPs):					
Are laboratory SOPs current and on file for each method performed?	✓				

EXCEPTIONS REPORT

ER# - Description

- 1) Acetone, bromomethane, and dichlorodifluoromethane exceeded the upper control limits in the ICV performed 11/25/08 on HPMS-11.
- 2) Chlorobenzene-d5 and 1,4-dichlorobenzene-d4 were below the lower control limits in the analyses of samples 04 and 05 performed 12/08/08 on HPMS-11. Reanalyses of samples 04 and 05 performed 12/09/08 on HPMS-11 confirmed the reported results.
- 3) The RPD for 2,2-dichloropropane and recovery results for vinyl chloride exceeded the upper advisory limits in the LCS/LCSD analyzed 12/09/08 on HPMS-11.

Footnotes:

- (1) NA = Not applicable to method or project
- (2) NR = Not reviewed
- (3) ER# = Exception report number

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

LABORATORY REPORT

00087113

L08120133

12/15/08 10:24

Submitted By

Microbac Laboratories Inc.
158 Starlite Drive
Marietta , OH 45750
(740) 373 - 4071

For

Account Name: Shaw E & I, Inc.
ABB Lummus Building
3010 Briarpark Drive Suite 4N
Houston, TX 77042
Attention: Jennifer Hoang

Project Number: 2773.025
Project: Longhorn AAP
Site: LONGHORN AAP KARNACK TX

P.O. Number: 389869/ 390836(GWTP)

Sample Analysis Summary

Client ID	Lab ID	Method	Dilution	Date Received
16WW19-120408	L08120133-01	8260B	1	05-DEC-08
16WW20-120408	L08120133-02	8260B	1	05-DEC-08
16WW20-120408-FD	L08120133-03	8260B	1	05-DEC-08
16WW21-120408	L08120133-04	8260B	1	05-DEC-08
16WW21-120408	L08120133-04	8260B	1	05-DEC-08
TRIP BLANK	L08120133-05	8260B	1	05-DEC-08
TRIP BLANK	L08120133-05	8260B	1	05-DEC-08



Sample Number: **L08120133-01**
 Client ID: **16WW19-120408**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 12:30**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 21:07**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 21:07**
 File ID: **11M55873**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120133-01**
 Client ID: **16WW19-120408**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 12:30**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 21:07**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 21:07**
 File ID: **11M55873**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	100	86	118		
1,2-Dichloroethane-d4	111	80	120		
Toluene-d8	92.4	88	110		
4-Bromofluorobenzene	96.0	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120133-02**
Client ID: **16WW20-120408**
Matrix: **Water**
Workgroup Number: **WG289859**
Collect Date: **12/04/2008 10:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/08/2008 21:39**
Cal Date: **11/25/2008 21:08**
Run Date: **12/08/2008 21:39**
File ID: **11M55874**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120133-02**
 Client ID: **16WW20-120408**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 10:00**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 21:39**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 21:39**
 File ID: **11M55874**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	101	86	118		
1,2-Dichloroethane-d4	110	80	120		
Toluene-d8	92.3	88	110		
4-Bromofluorobenzene	96.5	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120133-03**
 Client ID: **16WW20-120408-FD**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 10:00**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 22:11**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 22:11**
 File ID: **11M55875**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120133-03**
 Client ID: **16WW20-120408-FD**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 10:00**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 22:11**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 22:11**
 File ID: **11M55875**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	102	86	118		
1,2-Dichloroethane-d4	116	80	120		
Toluene-d8	91.4	88	110		
4-Bromofluorobenzene	95.2	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120133-04**
Client ID: **16WW21-120408**
Matrix: **Water**
Workgroup Number: **WG289946**
Collect Date: **12/04/2008 10:55**
Sample Tag: **A1**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/09/2008 12:35**
Cal Date: **11/25/2008 21:08**
Run Date: **12/09/2008 12:35**
File ID: **11M55890**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9	0.515	J	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120133-04**
 Client ID: **16WW21-120408**
 Matrix: **Water**
 Workgroup Number: **WG289946**
 Collect Date: **12/04/2008 10:55**
 Sample Tag: **A1**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/09/2008 12:35**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/09/2008 12:35**
 File ID: **11M55890**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	94.7	86	118		
1,2-Dichloroethane-d4	96.8	80	120		
Toluene-d8	92.3	88	110		
4-Bromofluorobenzene	95.4	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120133-04**
Client ID: **16WW21-120408**
Matrix: **Water**
Workgroup Number: **WG289859**
Collect Date: **12/04/2008 10:55**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/08/2008 22:42**
Cal Date: **11/25/2008 21:08**
Run Date: **12/08/2008 22:42**
File ID: **11M55876**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120133-04**
 Client ID: **16WW21-120408**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 10:55**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 22:42**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 22:42**
 File ID: **11M55876**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	103	86	118		
1,2-Dichloroethane-d4	117	80	120		
Toluene-d8	93.2	88	110		
4-Bromofluorobenzene	95.9	86	115		

U Not detected at or above adjusted sample detection limit

Sample Number: **L08120133-05**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG289946**
Collect Date: **12/04/2008 00:01**
Sample Tag: **A1**

PrePrep Method: **NONE**
Prep Method: **5030B**
Analytical Method: **8260B**
Analyst: **WTD**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS11**
Prep Date: **12/09/2008 13:07**
Cal Date: **11/25/2008 21:08**
Run Date: **12/09/2008 13:07**
File ID: **11M55891**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	0.288	J	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120133-05**
 Client ID: **TRIP BLANK**
 Matrix: **Water**
 Workgroup Number: **WG289946**
 Collect Date: **12/04/2008 00:01**
 Sample Tag: **A1**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/09/2008 13:07**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/09/2008 13:07**
 File ID: **11M55891**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	97.2	86	118		
1,2-Dichloroethane-d4	98.4	80	120		
Toluene-d8	91.7	88	110		
4-Bromofluorobenzene	95.6	86	115		

U Not detected at or above adjusted sample detection limit

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L08120133-05**
 Client ID: **TRIP BLANK**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 00:01**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 23:15**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 23:15**
 File ID: **11M55877**

Analyte	CAS. Number	Result	Qual	PQL	SDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromochloromethane	74-97-5		U	1.00	0.200
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	1.00	0.250
sec-Butylbenzene	135-98-8		U	1.00	0.250
tert-Butylbenzene	98-06-6		U	1.00	0.250
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.250
2-Chlorotoluene	95-49-8		U	1.00	0.125
4-Chlorotoluene	106-43-4		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
Dibromomethane	74-95-3		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,1-Dichloroethene	75-35-4		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3-Dichloropropane	142-28-9		U	1.00	0.200
2,2-Dichloropropane	594-20-7		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
1,1-Dichloropropene	563-58-6		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
p-Isopropyltoluene	99-87-6		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
Naphthalene	91-20-3		U	1.00	0.200
n-Propylbenzene	103-65-1		U	1.00	0.125
Styrene	100-42-5		U	1.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.125
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	1.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250

Sample Number: **L08120133-05**
 Client ID: **TRIP BLANK**
 Matrix: **Water**
 Workgroup Number: **WG289859**
 Collect Date: **12/04/2008 00:01**
 Sample Tag: **01**

PrePrep Method: **NONE**
 Prep Method: **5030B**
 Analytical Method: **8260B**
 Analyst: **WTD**
 Dilution: **1**
 Units: **ug/L**

Instrument: **HPMS11**
 Prep Date: **12/08/2008 23:15**
 Cal Date: **11/25/2008 21:08**
 Run Date: **12/08/2008 23:15**
 File ID: **11M55877**

Analyte	CAS. Number	Result	Qual	PQL	SDL
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
o-Xylene	95-47-6		U	1.00	0.250
m-,p-Xylene	136777-61-2		U	1.00	0.500
Surrogate	% Recovery	Lower	Upper	Qual	
Dibromofluoromethane	103	86	118		
1,2-Dichloroethane-d4	114	80	120		
Toluene-d8	92.9	88	110		
4-Bromofluorobenzene	95.9	86	115		

U Not detected at or above adjusted sample detection limit

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

$$RF = [(Ax) (Cis)] / [(Ais) (Cx)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100

RF = Calculated Response Factor **1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

$$Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Vs = Purge volume of sample (mL)	10
Vn = Nominal purge volume of sample (mL) (10.0 mL)	10
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

$$Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]$$

Example

where:

Ax = Area of the characteristic ion for the compound being measured	3122498
Cis = Concentration of the specific internal standard (ug/L)	25
D = Dilution factor for sample as a multiplier (10x = 10)	1
Ais = Area of the characteristic ion of the specific internal standard	611048
RF = Average RF from the ICAL	1.004
Ws = Weight of sample purged (g)	5
Wn = Nominal purge weight (g) (5.0 g)	5
Cx = Concentration of the compound in the sample being measured (ug/L)	127.2428

Dry weight correction:

Percent solids (PCT_S)	50
Cd = (Cx) (100)/PCT_S	254.4856

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, $y = mx + b$

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

$$y = 86550/593147 = 0.1459$$

Step 3: Solve for x

$$x = (y - b)/m = [(0.1459 - (-0.00642))/0.213] = 0.7152$$

Step 4: Solve for analyte concentration Cx

$$Cx = Cis (x) = (25.0)(0.7152) = 17.88$$

Example Spreadsheet Calculation:

Slope from curve, m:	0.213
Intercept from curve, b:	-0.00642
Area of analyte, Ax:	86550
Area of Internal Standard, Ais:	593147
Concentration of IS, Cis	25.00
Response Ratio:	0.145917
Amount Ratio:	0.715195
Concentration:	17.87988
Units of Internal Standard:	ug/L

5.0 Concentration from Quadratic Regression**Step 1 - Retrieve Curve Data from Plot, $y = Ax^2 + Bx + C$**

Where:

$$Ax^2 + Bx + (C - y) = 0$$

A, B, C = constants from the ICAL quadratic regression

y = Response ratio = Area of analyte/Area of internal standard (IS)

x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

$$y = Ax/Ais$$

Step 3: Solve for x using the quadratic formula

$$Ax^2 + Bx + C - y = 0$$

$$x = \frac{b \pm \sqrt{b^2 - 4a(c - y)}}{2a} \quad (\text{Two possible solutions})$$

Step 4: Solve for analyte concentration Cx

$$Cx = (Cis)(\text{Amount ratio})$$

Example Spreadsheet Calculation:

Value of A from plot:	-0.00629
Value of B from plot:	0.511
Value of C from plot:	-0.0276
Area of unknown from quantitation report:	293821
Area of IS from quantitation report:	784848
Response ratio, y:	0.374367
C - y:	-0.40197
Root 1 - Computed amount ratio, X1:	80.44567
Root 2 - Computed amount ratio, X2:	0.794396 use this solution
Concentration of IS, Cis:	25.00
Concentration of analyte, Cx:	19.86 ug/L

Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS11 Dataset: 112508
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26803

Internal Standard: STD29716 Surrogate Standard: STD29969
 CCV: STD30123 LCS: STD29858 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: WG289038

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M55528	50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 08:04
2	11M55529	50ug/L CCV 8260	NA	1	1	STD30008	11/25/08 08:38
27	11M55530	BLANK 8260	NA	1	1		11/25/08 09:30
28	11M55531	5ug/L Vinyl Acetate 8260	NA	1	1		11/25/08 10:17
3	11M55532	0.3ug/L 8260	NA	1	1		11/25/08 10:49
4	11M55533	WG 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 11:37
5	11M55534	WG 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 11:49
6	11M55535	WG 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 12:20
7	11M55536	WG289038-01 50NG BFB STD 8260	NA	1	1	STD29746	11/25/08 12:53
8	11M55537	WG289038-02 0.3ug/L 8260	NA	1	1	STD30042	11/25/08 13:20
9	11M55538	WG289038-03 0.4ug/L 8260	NA	1	1	STD30042	11/25/08 14:03
10	11M55539	WG289038-04 1.0ug/L 8260	NA	1	1	STD30042	11/25/08 14:38
11	11M55540	WG289038-05 2ug/L 8260	NA	1	1	STD30042	11/25/08 15:10
12	11M55541	SYSTEM BLANK	NA	1	1	STD30042	11/25/08 15:48
13	11M55542	WG289038-02 0.3ug/L 8260	NA	1	1	STD30042	11/25/08 16:23
14	11M55543	WG289038-03 0.4ug/L 8260	NA	1	1	STD30042	11/25/08 16:54
15	11M55544	WG289038-04 1ug/L 8260	NA	1	1	STD30042	11/25/08 17:26
16	11M55545	WG289038-05 2ug/L 8260	NA	1	1	STD30042	11/25/08 17:58
17	11M55546	WG289038-06 5ug/L 8260	NA	1	1	STD30042	11/25/08 18:30
18	11M55547	WG289038-07 20ug/L 8260	NA	1	1	STD30042	11/25/08 19:01
19	11M55548	WG289038-08 50ug/L 8260	NA	1	1	STD30042	11/25/08 19:33
20	11M55549	WG289038-09 100ug/L 8260	NA	1	1	STD30042	11/25/08 20:05
21	11M55550	WG289038-10 200ug/L 8260	NA	1	1	STD30042	11/25/08 20:37
22	11M55551	WG289038-11 300ug/L 8260	NA	1	1	STD30042	11/25/08 21:08
23	11M55552	SYSTEM BLANK	NA	1	1		11/25/08 21:40
24	11M55553	SYSTEM BLANK	NA	1	1		11/25/08 22:12
25	11M55554	WG289038-12 20ug/L ALT SOURCE	NA	1	1	STD30055	11/25/08 22:44
26	11M55555	SYSTEM BLANK	NA	1	1		11/25/08 23:16

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 11M55529				

Approved: December 02, 2008

Michael Cohen



Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS11 Dataset: 112508
Analyst1: WTD Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 12
Method: 5030/5035 SOP: PAT01 Rev: 11

Maintenance Log ID: 26803

Internal Standard: STD29716 Surrogate Standard: STD29969
CCV: STD30123 LCS: STD29858 MS/MSD: NA
Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG289038

Comments: Comments

Seq.	Rerun	Dil.	Reason	Analytes
			running a curve.	
4				
File ID: 11M55533				
RR, BFB failed.				
5				
File ID: 11M55534				
RR, BFB failed. Replaced the septum.				
6				
File ID: 11M55535				
RR, BFB failed.				
8				
File ID: 11M55537				
DNR				
9				
File ID: 11M55538				
DNR				
10				
File ID: 11M55539				
DNR				
11				
File ID: 11M55540				
DNR				

Approved: December 02, 2008



Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 120808
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 624 SOP: MSV10 Rev: 11
 Method: 5030/5035 SOP: PAT01 Rev: 12
 Maintenance Log ID: 26892

Internal Standard: STD30197 Surrogate Standard: STD29969
 CCV: STD30123 LCS: STD30200 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 289859

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M55855	WG289858-01 50ng BFB STD 8260	NA	1	1	STD29746	12/08/08 11:36
2	11M55856	WG289858-02 50ug/L CCV STD 8260	NA	1	1	STD30123	12/08/08 12:01
3	11M55857	WG289859-01 BLANK 8260	NA	1	1		12/08/08 12:33
4	11M55858	WG289859-01 BLANK 8260	NA	1	1		12/08/08 13:05
5	11M55859	WG289859-02 LCS 20ug/L 8260	NA	1	1	STD30169	12/08/08 13:37
6	11M55860	WG289859-03 LCSD 20ug/L 8260	NA	1	1	STD30169	12/08/08 14:13
7	11M55861	SYSTEM BLANK	NA	1	1		12/08/08 14:45
8	11M55862	L08120101-01 B 826-LOW	<2	1	1		12/08/08 15:16
9	11M55863	L08120101-03 B 826-LOW	<2	1	1		12/08/08 15:48
10	11M55864	L08120133-01 A 100X 826-LOW	<2	1	100		12/08/08 16:20
11	11M55865	L08120133-02 A 100X 826-LOW	<2	1	100		12/08/08 16:52
12	11M55866	L08120133-04 A 100X 826-LOW	<2	1	100		12/08/08 17:24
13	11M55867	L08120101-09 B 826-LOW	<2	1	1		12/08/08 17:56
14	11M55868	L08120101-12 B 826-LOW	<2	1	1		12/08/08 18:28
15	11M55869	L08120101-13 B 826-LOW	<2	1	1		12/08/08 19:00
16	11M55870	L08120101-14 B 826-LOW	<2	1	1		12/08/08 19:31
17	11M55871	L08120101-15 B 826-LOW	<2	1	1		12/08/08 20:03
18	11M55872	L08120101-19 B 826-LOW	<2	1	1		12/08/08 20:35
19	11M55873	L08120133-01 A 826-LOW	<2	1	1		12/08/08 21:07
20	11M55874	L08120133-02 A 826-LOW	<2	1	1		12/08/08 21:39
21	11M55875	L08120133-03 A 826-LOW	<2	1	1		12/08/08 22:11
22	11M55876	L08120133-04 A 826-LOW	<2	1	1		12/08/08 22:42
23	11M55877	L08120133-05 A 826-LOW	<2	1	1		12/08/08 23:15
24	11M55878	L08120101-02 B 25X 826-LOW	<2	1	25		12/08/08 23:47
25	11M55879	L08120101-20 B 10X 826-LOW	<2	1	10		12/09/08 00:20
26	11M55880	SYSTEM CHECK	NA	1	1		12/09/08 00:52
27	11M55881	SYSTEM BLANK	NA	1	1		12/09/08 01:24

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X	1	Carry-over contamination	
File ID: 11M55857				
dnr				

Approved: December 11, 2008

Page: 1

WTD



Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS11 Dataset: 120808
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 624 SOP: MSV10 Rev: 11
 Method: 5030/5035 SOP: PAT01 Rev: 12
 Maintenance Log ID: 26892

Internal Standard: STD30197 Surrogate Standard: STD29969
 CCV: STD30123 LCS: STD30200 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 289859

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10	X		Analyzed too dilute	
File ID: 11M55864				
11	X	1	Analyzed too dilute	
File ID: 11M55865				
12	X	1	Analyzed too dilute	
File ID: 11M55866				
22	X	1	Internal standard failure	
File ID: 11M55876				
23	X	1	Internal standard failure	
File ID: 11M55877				
24	X	25	Missed Tune	
File ID: 11M55878				
dnr				
25	X	10	Missed Tune	
File ID: 11M55879				
dnr				

Approved: December 11, 2008

WTD



Microbac Laboratories Inc.
Instrument Run Log

Instrument: HPMS11 Dataset: 120908
 Analyst1: WTD Analyst2: NA
 Method: 8260B SOP: MSV01 Rev: 12
 Method: 5030B/5035 SOP: PAT01 Rev: 11
 Method: 624 SOP: MSV10 Rev: 7
 Maintenance Log ID: 26902

Internal Standard: STD30197 Surrogate Standard: STD30117
 CCV: STD30123 LCS: STD30200 MS/MSD: NA
 Column 1 ID: RTX502.2 Column 2 ID: NA
 Workgroups: 289946

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	11M55882	WG289940-01 50ng BFB STD 8260	NA	1	1	STD29746	12/09/08 08:23
2	11M55883	WG289940-02 50ug/L CCV STD 8260	NA	1	1	STD30123	12/09/08 08:48
3	11M55884	WG289940-02 50ug/L CCV STD 8260	NA	1	1	STD30123	12/09/08 09:23
4	11M55885	WG289946-01 BLANK 8260	NA	1	1		12/09/08 09:56
5	11M55886	WG289946-01 BLANK 8260	NA	1	1		12/09/08 10:28
6	11M55887	WG289946-02 LCS 20ug/L 8260	NA	1	1		12/09/08 11:00
7	11M55888	WG289946-03 LCSD 20ug/L 8260	NA	1	1		12/09/08 11:31
8	11M55889	SYSTEM BLANK	NA	1	1		12/09/08 12:03
9	11M55890	L08120133-04 B 826-LOW	<2	1	1		12/09/08 12:35
10	11M55891	L08120133-05 B 826-LOW	<2	1	1		12/09/08 13:07
11	11M55892	L08120101-02 C 25X 826-LOW	<2	1	25		12/09/08 13:39
12	11M55893	L08120101-20 C 10X 826-LOW	<2	1	10		12/09/08 14:11
13	11M55894	L08120181-13 A 826-SPE	<2	1	1		12/09/08 14:43
14	11M55895	L08120181-14 A 826-SPE	<2	1	1		12/09/08 15:14
15	11M55896	L08120181-04 A 826-SPE	<2	1	1		12/09/08 15:46
16	11M55897	L08120181-05 A 826-SPE	<2	1	1		12/09/08 16:18
17	11M55898	L08120181-06 A 826-SPE	<2	1	1		12/09/08 16:50
18	11M55899	L08120181-07 A 826-SPE	<2	1	1		12/09/08 17:21
19	11M55900	L08120181-08 A 826-SPE	<2	1	1		12/09/08 17:53
20	11M55901	L08120181-09 A 826-SPE	<2	1	1		12/09/08 18:26
21	11M55902	L08120181-10 A 826-SPE	<2	1	1		12/09/08 18:58
22	11M55903	L08120181-11 A 826-SPE	<2	1	1		12/09/08 19:29
23	11M55904	L08120181-12 A 826-SPE	<2	1	1		12/09/08 20:01
24	11M55905	SYSTEM BLANK	NA	1	1		12/09/08 20:33
25	11M55906	SYSTEM BLANK	NA	1	1		12/09/08 21:05
26	11M55907	SYSTEM BLANK	NA	1	1		12/09/08 21:36

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X		Carry-over contamination	
File ID: 11M55885				
DNR				

Approved: December 11, 2008

Page: 1

WTD



Data Checklist

Date: 25-NOV-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 25509

Analytical Workgroups: WG289038

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	NA
Project/Client Specific Requirements	NA
Special Standards	NA
Blanks	NA
TCL's	NA
Surrogates	NA
LCS (Laboratory Control Sample)	NA
Recoveries	NA
Surrogates	NA
MS/MSD/Duplicates	NA
Samples	NA
TCL Hits	NA
Spectra of TCL Hits	NA
Surrogates	NA
Internal Standards Criteria	NA
Library Searches	NA
Calculations & Correct Factors	NA
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	NA
Results Reporting/Data Qualifiers	NA
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	MES
Secondary Reviewer	MDC
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
02-DEC-2008



Secondary Reviewer:
02-DEC-2008



Microbac Laboratories Inc.

Data Checklist

Date: 08-DEC-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 25616

Analytical Workgroups: 289859

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	WTD
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
09-DEC-2008

Secondary Reviewer:
11-DEC-2008

Microbac Laboratories Inc.

Data Checklist

Date: 09-DEC-2008

Analyst: WTD

Analyst: NA

Method: 8260

Instrument: HPMS11

Curve Workgroup: NA

Runlog ID: 25639

Analytical Workgroups: 289946

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	WTD
Secondary Reviewer	MDA
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
10-DEC-2008

Secondary Reviewer:
11-DEC-2008

Analytical Method: 8260B

AAB#: WG289859

Login Number: L08120133

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
16WW20-120408-FD	12/04/08	12/05/08	12/08/08	14	4.51	12/08/08	14	4.51	
16WW20-120408	12/04/08	12/05/08	12/08/08	14	4.49	12/08/08	14	4.49	
16WW21-120408	12/04/08	12/05/08	12/08/08	14	4.49	12/08/08	14	4.49	
16WW19-120408	12/04/08	12/05/08	12/08/08	14	4.36	12/08/08	14	4.36	
TRIP BLANK	12/04/08	12/05/08	12/08/08	14	4.97	12/08/08	14	4.97	

* EXT = SEE PROJECT QAPP REQUIREMENTS

*ANAL = SEE PROJECT QAPP REQUIREMENTS

Analytical Method: 8260B

AAB#: WG289946

Login Number: L08120133

Client ID	Date Collected	Date Received	Date Extracted	Max Hold Time Ext.	Time Held Ext.	Date Analyzed	Max Hold Time Anal	Time Held Anal.	Q
TRIP BLANK	12/04/08	12/05/08	12/09/08	14	5.55	12/09/08	14	5.55	
16WW21-120408	12/04/08	12/05/08	12/09/08	14	5.07	12/09/08	14	5.07	

* EXT = SEE PROJECT QAPP REQUIREMENTS

* ANAL = SEE PROJECT QAPP REQUIREMENTS

Login Number: L08120133
Instrument Id: HPMS11
Workgroup (AAB#): WG289946

Method: 8260
CAL ID: HPMS11 - 25-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08120133-04	1.00	A1	96.8	94.7	95.4	92.3
L08120133-05	1.00	A1	98.4	97.2	95.6	91.7
WG289946-01	1.00	01	95.0	97.2	94.0	92.1
WG289946-02	1.00	01	98.7	102	92.0	90.8
WG289946-03	1.00	01	98.9	102	91.9	90.1

Surrogates	Surrogate Limits
1 - 1,2-Dichloroethane-d4	80 - 120
2 - Dibromofluoromethane	86 - 118
3 - 4-Bromofluorobenzene	86 - 115
4 - Toluene-d8	88 - 110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

Login Number: L08120133
Instrument Id: HPMS11
Workgroup (AAB#): WG289859

Method: 8260
CAL ID: HPMS11 - 25-NOV-08
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L08120133-01	1.00	01	111	100	96.0	92.4
L08120133-02	1.00	01	110	101	96.5	92.3
L08120133-03	1.00	01	116	102	95.2	91.4
L08120133-04	1.00	01	117	103	95.9	93.2
L08120133-05	1.00	01	114	103	95.9	92.9
WG289859-01	1.00	01	89.9	92.7	93.3	92.6
WG289859-02	1.00	01	96.8	97.5	94.6	90.5
WG289859-03	1.00	01	93.1	96.9	94.9	92.1

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

METHOD BLANK SUMMARY

Login Number: L08120133
Blank File ID: 11M55858
Prep Date: 12/08/08 13:05
Analyzed Date: 12/08/08 13:05
Analyst: WTD

Work Group: WG289859
Blank Sample ID: WG289859-01
Instrument ID: HPMS11
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289859-02	11M55859	12/08/08 13:37	01
LCS2	WG289859-03	11M55860	12/08/08 14:13	01
16WW19-120408	L08120133-01	11M55873	12/08/08 21:07	01
16WW20-120408	L08120133-02	11M55874	12/08/08 21:39	01
16WW20-120408-FD	L08120133-03	11M55875	12/08/08 22:11	01
16WW21-120408	L08120133-04	11M55876	12/08/08 22:42	01
TRIP BLANK	L08120133-05	11M55877	12/08/08 23:15	01

METHOD BLANK SUMMARY

Login Number:	<u>L08120133</u>	Work Group:	<u>WG289946</u>
Blank File ID:	<u>11M55886</u>	Blank Sample ID:	<u>WG289946-01</u>
Prep Date:	<u>12/09/08 10:28</u>	Instrument ID:	<u>HPMS11</u>
Analyzed Date:	<u>12/09/08 10:28</u>	Method:	<u>8260B</u>
Analyst:	<u>WTD</u>		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG289946-02	11M55887	12/09/08 11:00	01
LCS2	WG289946-03	11M55888	12/09/08 11:31	01
16WW21-120408	L08120133-04	11M55890	12/09/08 12:35	A1
TRIP BLANK	L08120133-05	11M55891	12/09/08 13:07	A1

Login Number: L08120133 Prep Date: 12/08/08 13:05 Sample ID: WG289859-01
Instrument ID: HPMS11 Run Date: 12/08/08 13:05 Prep Method: 5030B
File ID: 11M55858 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289859 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1270980

11-DEC-2008 10:12



Login Number: L08120133 Prep Date: 12/08/08 13:05 Sample ID: WG289859-01
Instrument ID: HPMS11 Run Date: 12/08/08 13:05 Prep Method: 5030B
File ID: 11M55858 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289859 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.318	1	J
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	92.7	86 - 118	PASS
1,2-Dichloroethane-d4	89.9	80 - 120	PASS
Toluene-d8	92.6	88 - 110	PASS
4-Bromofluorobenzene	93.3	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 1270980

11-DEC-2008 10:12



Login Number: L08120133 Prep Date: 12/09/08 10:28 Sample ID: WG289946-01
Instrument ID: HPMS11 Run Date: 12/09/08 10:28 Prep Method: 5030B
File ID: 11M55886 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289946 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	1.00	0.500	1	U
Bromomethane	0.500	1.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	1.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	1.00	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.250	1.00	0.250	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	1.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	1.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U

Report Name: BLANK

PDF ID: 1270980

11-DEC-2008 10:12



Login Number: L08120133 Prep Date: 12/09/08 10:28 Sample ID: WG289946-01
Instrument ID: HPMS11 Run Date: 12/09/08 10:28 Prep Method: 5030B
File ID: 11M55886 Analyst: WTD Method: 8260B
Workgroup (AAB#): WG289946 Matrix: Water Units: ug/L
Contract #: DACA56-94-D-0020 Cal ID: HPMS11 - 25-NOV-08

Analytes	SDL	PQL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	1.00	0.250	1	U
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.382	1	J
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.125	1.00	0.125	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	1.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	1.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	97.2	86 - 118	PASS
1,2-Dichloroethane-d4	95.0	80 - 120	PASS
Toluene-d8	92.1	88 - 110	PASS
4-Bromofluorobenzene	94.0	86 - 115	PASS

SDL Method Detection Limit

PQL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 1270980

11-DEC-2008 10:12



Login Number: L08120133 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289946 Units: ug/L
QC Key: STD Lot #: STD30200

Sample ID: WG289946-02 LCS File ID: 11M55887 Run Date: 12/09/2008 11:00
Sample ID: WG289946-03 LCS2 File ID: 11M55888 Run Date: 12/09/2008 11:31

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	24.9	125	20.0	24.6	123	1.08	40 - 142	20	
Benzene	20.0	20.3	102	20.0	20.6	103	1.42	80 - 121	20	
Bromobenzene	20.0	19.0	95.0	20.0	19.3	96.4	1.44	80 - 120	20	
Bromochloromethane	20.0	21.5	107	20.0	21.9	109	1.95	65 - 130	20	
Bromodichloromethane	20.0	23.1	115	20.0	23.0	115	0.279	80 - 131	20	
Bromoform	20.0	18.8	94.0	20.0	19.1	95.6	1.60	70 - 130	20	
Bromomethane	20.0	20.4	102	20.0	23.3	117	13.2	30 - 145	20	
2-Butanone	20.0	25.7	129	20.0	26.0	130	1.11	30 - 150	20	
n-Butylbenzene	20.0	19.3	96.7	20.0	19.1	95.7	1.02	80 - 131	20	
sec-Butylbenzene	20.0	18.9	94.6	20.0	19.1	95.5	0.996	80 - 127	20	
tert-Butylbenzene	20.0	18.9	94.6	20.0	19.1	95.7	1.12	80 - 126	20	
Carbon disulfide	20.0	20.1	100	20.0	21.0	105	4.42	58 - 138	20	
Carbon tetrachloride	20.0	24.0	120	20.0	24.7	124	2.91	65 - 140	20	
Chlorobenzene	20.0	19.6	97.8	20.0	19.8	99.0	1.20	80 - 120	20	
Chlorodibromomethane	20.0	21.0	105	20.0	21.2	106	1.04	60 - 135	20	
Chloroethane	20.0	20.1	100	20.0	21.1	105	4.85	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	19.2	95.9	20.0	19.9	99.5	3.68	58 - 151	20	
Chloroform	20.0	23.3	116	20.0	23.7	119	2.02	80 - 125	20	
Chloromethane	20.0	16.8	83.9	20.0	17.4	87.2	3.84	40 - 125	20	
2-Chlorotoluene	20.0	20.2	101	20.0	20.4	102	0.730	80 - 127	20	
4-Chlorotoluene	20.0	19.4	96.9	20.0	19.5	97.3	0.416	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	19.2	96.2	20.0	18.6	92.9	3.51	50 - 130	20	
1,2-Dibromoethane	20.0	18.9	94.5	20.0	19.0	95.0	0.502	80 - 125	20	
Dibromomethane	20.0	21.1	106	20.0	21.1	105	0.258	75 - 125	20	
1,2-Dichlorobenzene	20.0	19.1	95.7	20.0	18.9	94.7	1.04	80 - 125	20	
1,3-Dichlorobenzene	20.0	19.0	95.0	20.0	19.1	95.6	0.697	80 - 120	20	
1,4-Dichlorobenzene	20.0	18.7	93.3	20.0	18.6	92.8	0.460	80 - 120	20	
Dichlorodifluoromethane	20.0	23.4	117	20.0	23.6	118	1.09	50 - 133	20	
1,1-Dichloroethane	20.0	21.6	108	20.0	22.7	114	5.10	80 - 125	20	
1,2-Dichloroethane	20.0	22.2	111	20.0	22.0	110	0.862	80 - 129	20	
1,1-Dichloroethene	20.0	22.4	112	20.0	23.0	115	2.65	80 - 132	20	
cis-1,2-Dichloroethene	20.0	20.9	105	20.0	21.4	107	2.27	70 - 125	20	
trans-1,2-Dichloroethene	20.0	20.9	104	20.0	21.4	107	2.32	80 - 127	20	
1,2-Dichloropropane	20.0	20.9	104	20.0	21.4	107	2.50	80 - 120	20	
1,3-Dichloropropane	20.0	19.2	96.0	20.0	19.5	97.4	1.52	80 - 120	20	
2,2-Dichloropropane	20.0	20.0	99.9	20.0	24.7	123	21.0	80 - 133	20	#
cis-1,3-Dichloropropene	20.0	20.7	104	20.0	21.2	106	2.37	70 - 130	20	
trans-1,3-Dichloropropene	20.0	17.7	88.6	20.0	18.4	92.0	3.70	80 - 130	20	
1,1-Dichloropropene	20.0	21.1	106	20.0	21.5	107	1.65	75 - 130	20	
Ethylbenzene	20.0	19.9	99.3	20.0	20.2	101	1.84	80 - 122	20	

Login Number: L08120133 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289946 Units: ug/L
QC Key: STD Lot #: STD30200

Sample ID: WG289946-02 LCS File ID: 11M55887 Run Date: 12/09/2008 11:00
Sample ID: WG289946-03 LCS2 File ID: 11M55888 Run Date: 12/09/2008 11:31

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	22.0	110	20.0	22.2	111	0.968	55 - 130	20	
Hexachlorobutadiene	20.0	18.0	90.0	20.0	17.9	89.6	0.459	72 - 132	20	
Isopropylbenzene	20.0	17.6	88.0	20.0	17.8	89.1	1.24	80 - 122	20	
p-Isopropyltoluene	20.0	18.4	92.1	20.0	18.5	92.7	0.654	80 - 122	20	
4-Methyl-2-pentanone	20.0	19.9	99.4	20.0	19.6	98.2	1.31	64 - 140	20	
Methylene chloride	20.0	20.1	100	20.0	20.4	102	1.70	80 - 123	20	
Naphthalene	20.0	18.0	90.2	20.0	17.6	88.0	2.39	59 - 149	20	
n-Propylbenzene	20.0	19.7	98.4	20.0	19.8	98.8	0.367	80 - 129	20	
Styrene	20.0	20.0	100	20.0	20.1	100	0.104	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	21.6	108	20.0	21.3	107	1.35	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	20.2	101	20.0	20.0	99.8	1.19	79 - 125	20	
Tetrachloroethene	20.0	18.7	93.6	20.0	19.0	95.2	1.73	80 - 124	20	
Toluene	20.0	19.1	95.3	20.0	19.3	96.7	1.47	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	17.8	89.1	20.0	17.6	88.2	1.05	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	18.0	89.9	20.0	17.9	89.6	0.343	65 - 135	20	
1,1,1-Trichloroethane	20.0	21.8	109	20.0	22.3	112	2.37	80 - 134	20	
1,1,2-Trichloroethane	20.0	19.5	97.4	20.0	19.8	99.1	1.75	80 - 125	20	
Trichloroethene	20.0	18.6	93.1	20.0	19.1	95.3	2.29	80 - 122	20	
Trichlorofluoromethane	20.0	21.7	108	20.0	22.3	111	2.67	62 - 151	20	
1,2,3-Trichloropropane	20.0	19.5	97.4	20.0	19.4	97.1	0.307	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	20.0	100	20.0	19.8	99.1	0.915	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	19.6	97.8	20.0	19.4	97.2	0.595	80 - 127	20	
Vinyl acetate	20.0	23.5	117	20.0	25.0	125	6.47	10 - 150	20	
Vinyl chloride	20.0	31.2	156	20.0	27.6	138	12.3	65 - 140	20	*
o-Xylene	20.0	19.7	98.3	20.0	20.2	101	2.51	80 - 122	20	
m-, p-Xylene	40.0	40.4	101	40.0	41.0	103	1.47	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	98.7	98.9	80 - 120	PASS
Dibromofluoromethane	102	102	86 - 118	PASS
4-Bromofluorobenzene	92.0	91.9	86 - 115	PASS
Toluene-d8	90.8	90.1	88 - 110	PASS

* FAILS %REC LIMIT

FAILS RPD LIMIT

Login Number: L08120133 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289859 Units: ug/L
QC Key: STD Lot #: STD30169

Sample ID: WG289859-02 LCS File ID: 11M55859 Run Date: 12/08/2008 13:37
Sample ID: WG289859-03 LCS2 File ID: 11M55860 Run Date: 12/08/2008 14:13

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Acetone	20.0	25.5	128	20.0	23.4	117	8.50	40 - 142	20	
Benzene	20.0	21.3	107	20.0	20.5	103	3.69	80 - 121	20	
Bromobenzene	20.0	20.4	102	20.0	20.0	100	1.64	80 - 120	20	
Bromochloromethane	20.0	22.0	110	20.0	21.2	106	3.66	65 - 130	20	
Bromodichloromethane	20.0	23.5	117	20.0	22.5	113	4.25	80 - 131	20	
Bromoform	20.0	21.5	108	20.0	19.2	95.8	11.6	70 - 130	20	
Bromomethane	20.0	18.9	94.3	20.0	20.0	100	6.12	30 - 145	20	
2-Butanone	20.0	27.4	137	20.0	24.7	123	10.5	30 - 150	20	
n-Butylbenzene	20.0	19.7	98.7	20.0	19.5	97.5	1.26	80 - 131	20	
sec-Butylbenzene	20.0	19.7	98.5	20.0	19.7	98.6	0.0290	80 - 127	20	
tert-Butylbenzene	20.0	19.8	99.1	20.0	19.7	98.4	0.739	80 - 126	20	
Carbon disulfide	20.0	20.4	102	20.0	20.2	101	0.895	58 - 138	20	
Carbon tetrachloride	20.0	24.1	121	20.0	23.8	119	1.55	65 - 140	20	
Chlorobenzene	20.0	20.4	102	20.0	19.7	98.4	3.67	80 - 120	20	
Chlorodibromomethane	20.0	23.1	115	20.0	21.6	108	6.64	60 - 135	20	
Chloroethane	20.0	22.1	110	20.0	21.1	106	4.38	60 - 135	20	
2-Chloroethyl vinyl ether	20.0	22.1	110	20.0	20.4	102	7.93	58 - 151	20	
Chloroform	20.0	22.9	114	20.0	22.2	111	2.78	80 - 125	20	
Chloromethane	20.0	17.8	89.2	20.0	17.1	85.6	4.05	40 - 125	20	
2-Chlorotoluene	20.0	21.4	107	20.0	21.5	107	0.197	80 - 127	20	
4-Chlorotoluene	20.0	20.0	100	20.0	19.6	98.0	2.04	80 - 126	20	
1,2-Dibromo-3-chloropropane	20.0	21.7	109	20.0	18.2	90.8	17.8	50 - 130	20	
1,2-Dibromoethane	20.0	20.8	104	20.0	19.3	96.3	7.75	80 - 125	20	
Dibromomethane	20.0	22.1	110	20.0	20.8	104	5.89	75 - 125	20	
1,2-Dichlorobenzene	20.0	20.1	101	20.0	19.5	97.5	3.31	80 - 125	20	
1,3-Dichlorobenzene	20.0	20.0	99.9	20.0	19.6	98.0	1.85	80 - 120	20	
1,4-Dichlorobenzene	20.0	19.4	97.0	20.0	19.0	95.2	1.89	80 - 120	20	
Dichlorodifluoromethane	20.0	24.7	123	20.0	23.9	119	3.30	50 - 133	20	
1,1-Dichloroethane	20.0	22.0	110	20.0	21.4	107	2.63	80 - 125	20	
1,2-Dichloroethane	20.0	21.9	110	20.0	20.6	103	6.25	80 - 129	20	
1,1-Dichloroethene	20.0	22.1	111	20.0	21.7	108	2.03	80 - 132	20	
cis-1,2-Dichloroethene	20.0	21.5	107	20.0	20.7	103	3.89	70 - 125	20	
trans-1,2-Dichloroethene	20.0	21.0	105	20.0	20.6	103	2.11	80 - 127	20	
1,2-Dichloropropane	20.0	21.7	108	20.0	20.6	103	5.16	80 - 120	20	
1,3-Dichloropropane	20.0	21.0	105	20.0	19.2	95.9	9.21	80 - 120	20	
2,2-Dichloropropane	20.0	20.2	101	20.0	22.7	114	12.0	80 - 133	20	
cis-1,3-Dichloropropene	20.0	21.8	109	20.0	21.0	105	3.70	70 - 130	20	
trans-1,3-Dichloropropene	20.0	19.3	96.4	20.0	18.2	91.2	5.59	80 - 130	20	
1,1-Dichloropropene	20.0	21.4	107	20.0	20.7	103	3.60	75 - 130	20	
Ethylbenzene	20.0	21.0	105	20.0	20.4	102	2.74	80 - 122	20	

Login Number: L08120133 Analyst: WTD Prep Method: 5030B
Instrument ID: HPMS11 Matrix: Water Method: 8260B
Workgroup (AAB#): WG289859 Units: ug/L
QC Key: STD Lot #: STD30169

Sample ID: WG289859-02 LCS File ID: 11M55859 Run Date: 12/08/2008 13:37
Sample ID: WG289859-03 LCS2 File ID: 11M55860 Run Date: 12/08/2008 14:13

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
2-Hexanone	20.0	23.7	119	20.0	20.8	104	13.2	55 - 130	20	
Hexachlorobutadiene	20.0	18.4	91.8	20.0	18.2	90.9	1.01	72 - 132	20	
Isopropylbenzene	20.0	18.3	91.6	20.0	17.9	89.4	2.44	80 - 122	20	
p-Isopropyltoluene	20.0	18.9	94.5	20.0	18.9	94.3	0.211	80 - 122	20	
4-Methyl-2-pentanone	20.0	23.2	116	20.0	20.2	101	13.8	64 - 140	20	
Methylene chloride	20.0	20.6	103	20.0	20.0	99.9	3.15	80 - 123	20	
Naphthalene	20.0	20.0	100	20.0	17.9	89.5	11.0	59 - 149	20	
n-Propylbenzene	20.0	20.5	103	20.0	20.5	103	0.0013	80 - 129	20	
Styrene	20.0	20.9	104	20.0	20.2	101	3.43	80 - 123	20	
1,1,1,2-Tetrachloroethane	20.0	22.2	111	20.0	21.4	107	3.72	80 - 130	20	
1,1,2,2-Tetrachloroethane	20.0	22.9	114	20.0	21.1	106	8.08	79 - 125	20	
Tetrachloroethene	20.0	19.3	96.4	20.0	19.1	95.4	1.05	80 - 124	20	
Toluene	20.0	19.8	99.2	20.0	19.6	98.2	1.01	80 - 124	20	
1,2,3-Trichlorobenzene	20.0	19.0	95.1	20.0	17.8	88.8	6.93	55 - 140	20	
1,2,4-Trichlorobenzene	20.0	18.6	93.1	20.0	18.0	90.0	3.38	65 - 135	20	
1,1,1-Trichloroethane	20.0	22.1	110	20.0	21.5	107	2.69	80 - 134	20	
1,1,2-Trichloroethane	20.0	21.6	108	20.0	19.9	99.4	8.39	80 - 125	20	
Trichloroethene	20.0	19.2	96.0	20.0	18.5	92.6	3.60	80 - 122	20	
Trichlorofluoromethane	20.0	21.8	109	20.0	21.0	105	3.74	62 - 151	20	
1,2,3-Trichloropropane	20.0	21.8	109	20.0	20.2	101	7.63	75 - 125	20	
1,2,4-Trimethylbenzene	20.0	20.3	101	20.0	20.1	100	1.04	80 - 125	20	
1,3,5-Trimethylbenzene	20.0	20.2	101	20.0	19.9	99.4	1.54	80 - 127	20	
Vinyl acetate	20.0	24.0	120	20.0	23.6	118	1.41	10 - 150	20	
Vinyl chloride	20.0	25.2	126	20.0	24.7	124	1.71	65 - 140	20	
o-Xylene	20.0	20.6	103	20.0	20.1	101	2.15	80 - 122	20	
m-, p-Xylene	40.0	42.0	105	40.0	41.3	103	1.68	80 - 122	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	96.8	93.1	80 - 120	PASS
Dibromofluoromethane	97.5	96.9	86 - 118	PASS
4-Bromofluorobenzene	94.6	94.9	86 - 115	PASS
Toluene-d8	90.5	92.1	88 - 110	PASS

* FAILS %REC LIMIT
FAILS RPD LIMIT

BFB

Login Number: L08120133

Instrument: HPMS11

Analyst: WTD

Workgroup: WG289038

Tune ID: WG289038-01

Run Date: 11/25/2008

Run Time: 12:53

File ID: 11M55536

Cal ID: HPMS11-25-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	20.4	20731	PASS
75.0	95.0	30.0	60.0	46.4	47232	PASS
95.0	95.0	100	100	100	101824	PASS
96.0	95.0	5.00	9.00	7.09	7222	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	89.3	90928	PASS
175	174	5.00	9.00	7.23	6572	PASS
176	174	95.0	101	95.4	86752	PASS
177	176	5.00	9.00	6.66	5780	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289038-02	STD	01	11/25/2008 16:23	
WG289038-03	STD	01	11/25/2008 16:54	
WG289038-04	STD	01	11/25/2008 17:26	
WG289038-05	STD	01	11/25/2008 17:58	
WG289038-06	STD	01	11/25/2008 18:30	
WG289038-07	STD	01	11/25/2008 19:01	
WG289038-08	STD-CCV	01	11/25/2008 19:33	
WG289038-09	STD	01	11/25/2008 20:05	
WG289038-10	STD	01	11/25/2008 20:37	
WG289038-11	STD	01	11/25/2008 21:08	
WG289038-12	SSCV	01	11/25/2008 22:44	

* Sample past 12 hour tune limit

BFB

Login Number: L08120133

Instrument: HPMS11

Analyst: WTD

Workgroup: WG289858

Tune ID: WG289858-01

Run Date: 12/08/2008

Run Time: 11:36

File ID: 11M55855

Cal ID: HPMS11-25-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	21.3	14371	PASS
75.0	95.0	30.0	60.0	45.4	30656	PASS
95.0	95.0	100	100	100	67549	PASS
96.0	95.0	5.00	9.00	6.68	4511	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	80.6	54416	PASS
175	174	5.00	9.00	7.31	3977	PASS
176	174	95.0	101	98.2	53432	PASS
177	176	5.00	9.00	6.62	3536	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289858-02	CCV	01	12/08/2008 12:01	
WG289859-01	BLANK	01	12/08/2008 13:05	
WG289859-02	LCS	01	12/08/2008 13:37	
WG289859-03	LCS2	01	12/08/2008 14:13	
L08120133-01	16WW19-120408	01	12/08/2008 21:07	
L08120133-02	16WW20-120408	01	12/08/2008 21:39	
L08120133-03	16WW20-120408-FD	01	12/08/2008 22:11	
L08120133-04	16WW21-120408	01	12/08/2008 22:42	
L08120133-05	TRIP BLANK	01	12/08/2008 23:15	

* Sample past 12 hour tune limit

BFB

Login Number: L08120133

Instrument: HPMS11

Analyst: WTD

Workgroup: WG289940

Tune ID: WG289940-01

Run Date: 12/09/2008

Run Time: 08:23

File ID: 11M55882

Cal ID: HPMS11-25-NOV-08

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.2	15546	PASS
75.0	95.0	30.0	60.0	48.3	31058	PASS
95.0	95.0	100	100	100	64274	PASS
96.0	95.0	5.00	9.00	7.02	4512	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	75.3	48392	PASS
175	174	5.00	9.00	7.58	3666	PASS
176	174	95.0	101	97.6	47218	PASS
177	176	5.00	9.00	6.75	3187	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG289940-02	CCV	01	12/09/2008 09:23	
WG289946-01	BLANK	01	12/09/2008 10:28	
WG289946-02	LCS	01	12/09/2008 11:00	
WG289946-03	LCS2	01	12/09/2008 11:31	
L08120133-04	16WW21-120408	A1	12/09/2008 12:35	
L08120133-05	TRIP BLANK	A1	12/09/2008 13:07	

* Sample past 12 hour tune limit

Login Number: L08120133
Analytical Method: 8260B
ICAL Workgroup: WG289038

Instrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
1,1-Dichloroethene	CCC	0.3660	5.39		
1,2-Dichloropropane	CCC	0.2280	3.45		
Chloroform	CCC	0.3755	7.39		
Ethylbenzene	CCC	0.4191	7.29		
Toluene	CCC	1.098	3.56		
Vinyl Chloride	CCC	0.1730	22.2		0.99900
1,1,2,2-Tetrachloroethane	SPCC	0.3385	9.50		
1,1-Dichloroethane	SPCC	0.4229	6.41		
Bromoform	SPCC	0.1190	17.1	0.99800	
Chlorobenzene	SPCC	0.7773	6.00		
Chloromethane	SPCC	0.2014	15.6		1.00000
1,1,1,2-Tetrachloroethane		0.2557	8.09		
1,1,1-Trichloroethane		0.3464	6.30		
1,1,2-Trichloroethane		0.1775	7.13		
1,1-Dichloropropene		0.2864	5.62		
1,2,3-Trichlorobenzene		0.6548	4.31		
1,2,3-Trichloropropane		0.1277	5.64		
1,2,4-Trichlorobenzene		0.7496	3.28		
1,2,4-Trimethylbenzene		2.045	3.81		
1,2-Dibromo-3-Chloropropane		0.06755	6.33		
1,2-Dibromoethane		0.1891	5.57		
1,2-Dichlorobenzene		1.112	3.04		
1,2-Dichloroethane		0.3208	3.40		
1,3,5-Trimethylbenzene		2.012	4.50		
1,3-Dichlorobenzene		1.213	3.08		
1,3-Dichloropropane		0.3175	5.53		
1,4-Dichlorobenzene		1.259	3.77		
2,2-Dichloropropane		0.2153	23.4	0.99800	
2-Butanone		0.06628	5.33		
2-Chloroethyl Vinyl Ether		0.1018	13.6		
2-Chlorotoluene		1.606	2.78		
2-Hexanone		0.1270	7.49		
4-Chlorotoluene		1.670	6.71		
4-Methyl-2-Pentanone		0.06563	7.11		
Acetone		0.04745	14.7		
Benzene		0.8111	3.23		
Bromobenzene		0.6233	2.88		
Bromochloromethane		0.1322	10.0		
Bromodichloromethane		0.2647	11.0		
Bromomethane		0.09393	14.6		
Carbon Disulfide		0.5403	15.5	0.99800	
Carbon Tetrachloride		0.2698	13.7		
Chloroethane		0.1328	10.9		
Dibromochloromethane		0.2265	12.5		
Dibromomethane		0.09999	5.45		

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Analytical Method: 8260B
ICAL Workgroup: WG289038

Instrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R ²)	QUAD(R ²)
Dichlorodifluoromethane		0.2327	5.56		
Hexachlorobutadiene		0.2585	8.86		
Isopropylbenzene		1.299	6.10		
Methylene Chloride		0.2805	45.1		1.00000
Naphthalene		1.522	3.44		
Styrene		0.8605	6.60		
Tetrachloroethene		0.2302	6.08		
Trichloroethene		0.2892	20.5		1.00000
Trichlorofluoromethane		0.3776	5.62		
Vinyl Acetate		0.1223	48.2	0.99600	
cis-1,2-Dichloroethene		0.2278	4.49		
cis-1,3-Dichloropropene		0.2990	11.5		
m-,p-Xylene		0.5126	8.26		
n-Butylbenzene		1.769	6.57		
n-Propylbenzene		2.610	5.16		
o-Xylene		0.5060	6.18		
p-Isopropyltoluene		2.174	4.90		
sec-Butylbenzene		2.465	4.44		
tert-Butylbenzene		0.4352	4.77		
trans-1,2-Dichloroethene		0.2103	6.47		
trans-1,3-Dichloropropene		0.3221	10.2		

R = Correlation coefficient; 0.995 minimum
R² = Coefficient of determination; 0.99 minimum

If the %RSD is greater than the limit specified by the method or project QAP, then linear or quadratic equations will be used.

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Analytical Method: 8260BInstrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
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Analyte	WG289038-02			WG289038-03			WG289038-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA	0.400	6778.00000	0.3277	1.00	18158.0000	0.3578
1,2-Dichloropropane	NA	NA	NA	0.400	4419.00000	0.2137	1.00	11357.0000	0.2238
Chloroform	0.300	5528.00000	0.3418	0.400	6873.00000	0.3323	1.00	18362.0000	0.3618
Ethylbenzene	NA	NA	NA	0.400	7400.00000	0.4456	1.00	16363.0000	0.3956
Toluene	NA	NA	NA	0.400	18373.0000	1.106	1.00	45479.0000	1.100
Vinyl Chloride	NA	NA	NA	NA	NA	NA	1.00	10278.0000	0.2025
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.400	2576.00000	0.2770	1.00	7247.00000	0.3160
1,1-Dichloroethane	NA	NA	NA	0.400	7962.00000	0.3850	1.00	20064.0000	0.3953
Bromoform	NA	NA	NA	NA	NA	NA	1.00	4117.00000	0.09950
Chlorobenzene	NA	NA	NA	0.400	13250.0000	0.7978	1.00	31679.0000	0.7659
Chloromethane	NA	NA	NA	NA	NA	NA	1.00	12775.0000	0.2517
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.400	3945.00000	0.2375	1.00	10065.0000	0.2433
1,1,1-Trichloroethane	NA	NA	NA	0.400	6642.00000	0.3212	1.00	16818.0000	0.3314
1,1,2-Trichloroethane	NA	NA	NA	0.400	2599.00000	0.1565	1.00	7339.00000	0.1774
1,1-Dichloropropene	NA	NA	NA	0.400	5422.00000	0.2622	1.00	13860.0000	0.2731
1,2,3-Trichlorobenzene	0.300	4564.00000	0.6346	0.400	6295.00000	0.6768	1.00	15005.0000	0.6542
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	1.00	2599.00000	0.1133
1,2,4-Trichlorobenzene	NA	NA	NA	0.400	0	0	1.00	17142.0000	0.7474
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	1.00	44640.0000	1.946
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	0.400	2856.00000	0.1720	1.00	7978.00000	0.1929
1,2-Dichlorobenzene	0.300	7821.00000	1.088	0.400	10275.0000	1.105	1.00	25114.0000	1.095
1,2-Dichloroethane	NA	NA	NA	0.400	6594.00000	0.3188	1.00	15363.0000	0.3027
1,3,5-Trimethylbenzene	NA	NA	NA	0.400	17953.0000	1.930	1.00	43699.0000	1.905
1,3-Dichlorobenzene	NA	NA	NA	0.400	11164.0000	1.200	1.00	26736.0000	1.166
1,3-Dichloropropane	NA	NA	NA	0.400	4996.00000	0.3008	1.00	13215.0000	0.3195
1,4-Dichlorobenzene	0.300	9508.00000	1.322	0.400	12134.0000	1.305	1.00	28177.0000	1.229
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	1.00	9478.00000	0.1867
2-Butanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloroethyl Vinyl Ether	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	0.400	14469.0000	1.556	1.00	35927.0000	1.567
2-Hexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	0.400	15776.0000	1.696	1.00	36297.0000	1.583
4-Methyl-2-Pentanone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	0.400	16629.0000	0.8040	1.00	40215.0000	0.7924
Bromobenzene	0.300	4534.00000	0.6305	0.400	5560.00000	0.5978	1.00	13794.0000	0.6014
Bromochloromethane	NA	NA	NA	0.400	2348.00000	0.1135	1.00	5860.00000	0.1155
Bromodichloromethane	NA	NA	NA	0.400	4599.00000	0.2224	1.00	11760.0000	0.2317
Bromomethane	NA	NA	NA	0.400	1462.00000	0.07070	1.00	4291.00000	0.08450
Carbon Disulfide	NA	NA	NA	NA	NA	NA	1.00	26163.0000	0.5155
Carbon Tetrachloride	NA	NA	NA	0.400	4549.00000	0.2200	1.00	12003.0000	0.2365

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Analyte	WG289038-05			WG289038-06			WG289038-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	2.00	36805.0000	0.3657	5.00	95895.0000	0.3841	20.0	370042.000	0.3746
1,2-Dichloropropane	2.00	22398.0000	0.2226	5.00	57181.0000	0.2290	20.0	231290.000	0.2341
Chloroform	2.00	36005.0000	0.3578	5.00	96019.0000	0.3846	20.0	388074.000	0.3929
Ethylbenzene	2.00	35086.0000	0.4320	5.00	90379.0000	0.4444	20.0	359218.000	0.4395
Toluene	2.00	88046.0000	1.084	5.00	229467.000	1.128	20.0	911902.000	1.116
Vinyl Chloride	2.00	23199.0000	0.2305	5.00	49924.0000	0.2000	20.0	164650.000	0.1667
1,1,2,2-Tetrachloroethane	2.00	15148.0000	0.3348	5.00	37729.0000	0.3299	20.0	158326.000	0.3448
1,1-Dichloroethane	2.00	39867.0000	0.3962	5.00	106690.000	0.4273	20.0	429033.000	0.4343
Bromoform	2.00	7668.00000	0.09440	5.00	22673.0000	0.1115	20.0	105675.000	0.1293
Chlorobenzene	2.00	64952.0000	0.7996	5.00	167583.000	0.8240	20.0	655667.000	0.8022
Chloromethane	2.00	19820.0000	0.1970	5.00	43560.0000	0.1745	20.0	171590.000	0.1737
1,1,1,2-Tetrachloroethane	2.00	20887.0000	0.2571	5.00	55950.0000	0.2751	20.0	224495.000	0.2747
1,1,1-Trichloroethane	2.00	31987.0000	0.3179	5.00	90090.0000	0.3608	20.0	361958.000	0.3664
1,1,2-Trichloroethane	2.00	15164.0000	0.1867	5.00	37273.0000	0.1833	20.0	152020.000	0.1860
1,1-Dichloropropene	2.00	28415.0000	0.2824	5.00	75359.0000	0.3018	20.0	296937.000	0.3006
1,2,3-Trichlorobenzene	2.00	28945.0000	0.6397	5.00	78035.0000	0.6824	20.0	319194.000	0.6951
1,2,3-Trichloropropane	2.00	5930.00000	0.1311	5.00	14997.0000	0.1311	20.0	58034.0000	0.1264
1,2,4-Trichlorobenzene	2.00	32962.0000	0.7285	5.00	87740.0000	0.7672	20.0	362474.000	0.7893
1,2,4-Trimethylbenzene	2.00	90852.0000	2.008	5.00	239284.000	2.092	20.0	973359.000	2.120
1,2-Dibromo-3-Chloropropane	2.00	2820.00000	0.06230	5.00	7122.00000	0.06230	20.0	31404.0000	0.06840
1,2-Dibromoethane	2.00	16116.0000	0.1984	5.00	39423.0000	0.1938	20.0	155365.000	0.1901
1,2-Dichlorobenzene	2.00	50698.0000	1.121	5.00	129487.000	1.132	20.0	530291.000	1.155
1,2-Dichloroethane	2.00	32686.0000	0.3248	5.00	81599.0000	0.3268	20.0	324510.000	0.3285
1,3,5-Trimethylbenzene	2.00	87081.0000	1.925	5.00	238841.000	2.089	20.0	962500.000	2.096
1,3-Dichlorobenzene	2.00	54366.0000	1.202	5.00	142777.000	1.249	20.0	573212.000	1.248
1,3-Dichloropropane	2.00	26074.0000	0.3210	5.00	68389.0000	0.3363	20.0	265438.000	0.3247
1,4-Dichlorobenzene	2.00	56817.0000	1.256	5.00	144331.000	1.262	20.0	586352.000	1.277
2,2-Dichloropropane	2.00	13580.0000	0.1349	5.00	46173.0000	0.1849	20.0	212149.000	0.2148
2-Butanone	NA	NA	NA	5.00	16077.0000	0.06440	20.0	66767.0000	0.06760
2-Chloroethyl Vinyl Ether	2.00	8023.00000	0.07970	5.00	21933.0000	0.08780	20.0	97520.0000	0.09870
2-Chlorotoluene	2.00	71837.0000	1.588	5.00	190883.000	1.669	20.0	755268.000	1.645
2-Hexanone	NA	NA	NA	5.00	23961.0000	0.1178	20.0	107795.000	0.1319
4-Chlorotoluene	2.00	74700.0000	1.651	5.00	197542.000	1.727	20.0	797792.000	1.737
4-Methyl-2-Pentanone	NA	NA	NA	5.00	14778.0000	0.05920	20.0	63860.0000	0.06460
Acetone	NA	NA	NA	5.00	14761.0000	0.05910	20.0	49685.0000	0.05030
Benzene	2.00	80890.0000	0.8038	5.00	208394.000	0.8347	20.0	822720.000	0.8329
Bromobenzene	2.00	28958.0000	0.6400	5.00	72303.0000	0.6323	20.0	287683.000	0.6264
Bromochloromethane	2.00	12098.0000	0.1202	5.00	34742.0000	0.1391	20.0	139953.000	0.1417
Bromodichloromethane	2.00	24530.0000	0.2438	5.00	65703.0000	0.2632	20.0	276466.000	0.2799
Bromomethane	2.00	8454.00000	0.08400	5.00	22580.0000	0.09040	20.0	105931.000	0.1072
Carbon Disulfide	2.00	37955.0000	0.3772	5.00	127473.000	0.5106	20.0	561374.000	0.5683
Carbon Tetrachloride	2.00	22661.0000	0.2252	5.00	68816.0000	0.2756	20.0	292874.000	0.2965

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Analyte	WG289038-08			WG289038-09			WG289038-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
1,1-Dichloroethene	50.0	979133.000	0.3846	100	2085058.00	0.3817	200	3334619.00	0.3520
1,2-Dichloropropane	50.0	609132.000	0.2393	100	1262724.00	0.2312	200	2179039.00	0.2300
Chloroform	50.0	1034681.00	0.4064	100	2205188.00	0.4037	200	3774720.00	0.3985
Ethylbenzene	50.0	902398.000	0.4313	100	1837248.00	0.4064	200	3227716.00	0.3579
Toluene	50.0	2327304.00	1.112	100	5094224.00	1.127	200	9088258.00	1.008
Vinyl Chloride	50.0	351202.000	0.1380	100	777258.000	0.1423	200	1243566.00	0.1313
1,1,2,2-Tetrachloroethane	50.0	443237.000	0.3770	100	828168.000	0.3641	200	1600703.00	0.3647
1,1-Dichloroethane	50.0	1153017.00	0.4529	100	2474959.00	0.4531	200	4161499.00	0.4393
Bromoform	50.0	305022.000	0.1458	100	603346.000	0.1335	NA	NA	NA
Chlorobenzene	50.0	1673104.00	0.7996	100	3406779.00	0.7536	200	6094122.00	0.6758
Chloromethane	50.0	440231.000	0.1729	100	1129622.00	0.2068	200	2210890.00	0.2334
1,1,1,2-Tetrachloroethane	50.0	587343.000	0.2807	100	1155211.00	0.2555	200	2000186.00	0.2218
1,1,1-Trichloroethane	50.0	952920.000	0.3743	100	1969228.00	0.3605	200	3204423.00	0.3383
1,1,2-Trichloroethane	50.0	401641.000	0.1920	100	803256.000	0.1777	200	1449226.00	0.1607
1,1-Dichloropropene	50.0	776009.000	0.3048	100	1605853.00	0.2940	200	2580164.00	0.2724
1,2,3-Trichlorobenzene	50.0	781650.000	0.6649	100	1458429.00	0.6412	200	2650816.00	0.6040
1,2,3-Trichloropropane	50.0	160170.000	0.1362	100	295503.000	0.1299	200	553980.000	0.1262
1,2,4-Trichlorobenzene	50.0	898753.000	0.7645	100	1698042.00	0.7466	200	3112029.00	0.7090
1,2,4-Trimethylbenzene	50.0	2476841.00	2.107	100	4777925.00	2.101	200	8522778.00	1.942
1,2-Dibromo-3-Chloropropane	50.0	85157.0000	0.07240	100	159231.000	0.07000	200	306934.000	0.06990
1,2-Dibromoethane	50.0	420554.000	0.2010	100	857900.000	0.1898	200	1572982.00	0.1744
1,2-Dichlorobenzene	50.0	1358930.00	1.156	100	2514677.00	1.106	200	4606323.00	1.050
1,2-Dichloroethane	50.0	858084.000	0.3371	100	1734140.00	0.3175	200	2938265.00	0.3102
1,3,5-Trimethylbenzene	50.0	2450598.00	2.084	100	4805679.00	2.113	200	8580284.00	1.955
1,3-Dichlorobenzene	50.0	1472318.00	1.252	100	2790859.00	1.227	200	5083698.00	1.158
1,3-Dichloropropane	50.0	706137.000	0.3375	100	1424724.00	0.3152	200	2570090.00	0.2850
1,4-Dichlorobenzene	50.0	1506819.00	1.282	100	2821679.00	1.241	200	5090227.00	1.160
2,2-Dichloropropane	50.0	648063.000	0.2546	100	1374111.00	0.2515	200	2652613.00	0.2800
2-Butanone	50.0	183039.000	0.07190	100	348484.000	0.06380	200	642638.000	0.06780
2-Chloroethyl Vinyl Ether	50.0	281829.000	0.1107	100	575188.000	0.1053	200	1072407.00	0.1132
2-Chlorotoluene	50.0	1941162.00	1.651	100	3550640.00	1.561	200	7066612.00	1.610
2-Hexanone	50.0	301422.000	0.1441	100	553447.000	0.1224	200	1103055.00	0.1223
4-Chlorotoluene	50.0	2053429.00	1.747	100	4050364.00	1.781	200	6317362.00	1.439
4-Methyl-2-Pentanone	50.0	176463.000	0.06930	100	334564.000	0.06120	200	657889.000	0.06950
Acetone	50.0	120503.000	0.04730	100	241448.000	0.04420	200	431165.000	0.04550
Benzene	50.0	2139559.00	0.8404	100	4472753.00	0.8188	200	7218097.00	0.7620
Bromobenzene	50.0	753433.000	0.6409	100	1453056.00	0.6389	200	2640077.00	0.6015
Bromochloromethane	50.0	365215.000	0.1435	100	766388.000	0.1403	200	1360673.00	0.1436
Bromodichloromethane	50.0	749917.000	0.2946	100	1557314.00	0.2851	200	2812462.00	0.2969
Bromomethane	50.0	257555.000	0.1012	100	568631.000	0.1041	200	1035003.00	0.1093
Carbon Disulfide	50.0	1529631.00	0.6008	100	3445031.00	0.6307	200	5482190.00	0.5788
Carbon Tetrachloride	50.0	797722.000	0.3133	100	1614309.00	0.2955	200	2798099.00	0.2954

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Analyte	WG289038-11		
	CONC	RESP	RF
1,1-Dichloroethene	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA
Chloroform	NA	NA	NA
Ethylbenzene	NA	NA	NA
Toluene	NA	NA	NA
Vinyl Chloride	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA
Bromoform	NA	NA	NA
Chlorobenzene	NA	NA	NA
Chloromethane	NA	NA	NA
1,1,1,2-Tetrachloroethane	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA
1,1-Dichloropropene	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA
1,3,5-Trimethylbenzene	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA
2-Butanone	300	934262.000	0.06220
2-Chloroethyl Vinyl Ether	300	1758647.00	0.1170
2-Chlorotoluene	NA	NA	NA
2-Hexanone	300	1737022.00	0.1237
4-Chlorotoluene	NA	NA	NA
4-Methyl-2-Pentanone	300	1051577.00	0.07000
Acetone	300	575315.000	0.03830
Benzene	NA	NA	NA
Bromobenzene	NA	NA	NA
Bromochloromethane	NA	NA	NA
Bromodichloromethane	NA	NA	NA
Bromomethane	NA	NA	NA
Carbon Disulfide	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA

INT_CAL - Modified 03/06/2008
PDF File ID: 1270982
Report generated 12/11/2008 10:12

Login Number: L08120133
Analytical Method: 8260B

Instrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte	WG289038-02			WG289038-03			WG289038-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	NA	NA	NA	NA	NA	NA	1.00	6444.00000	0.1270
Dibromochloromethane	NA	NA	NA	0.400	3091.00000	0.1861	1.00	8508.00000	0.2057
Dibromomethane	NA	NA	NA	0.400	1828.00000	0.08840	1.00	5036.00000	0.09920
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	1.00	12672.00000	0.2497
Hexachlorobutadiene	NA	NA	NA	0.400	2248.00000	0.2417	1.00	4959.00000	0.2162
Isopropylbenzene	NA	NA	NA	0.400	21390.00000	1.288	1.00	52122.00000	1.260
Methylene Chloride	NA	NA	NA	0.400	11843.00000	0.5726	1.00	17081.00000	0.3366
Naphthalene	NA	NA	NA	0.400	13680.00000	1.471	1.00	35174.00000	1.534
Styrene	NA	NA	NA	0.400	13764.00000	0.8287	1.00	33507.00000	0.8101
Tetrachloroethene	NA	NA	NA	0.400	3847.00000	0.2316	1.00	9032.00000	0.2184
Trichloroethene	NA	NA	NA	0.400	8740.00000	0.4226	1.00	16008.00000	0.3154
Trichlorofluoromethane	NA	NA	NA	0.400	7171.00000	0.3467	1.00	20845.00000	0.4107
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	0.400	4501.00000	0.2176	1.00	11165.00000	0.2200
cis-1,3-Dichloropropene	NA	NA	NA	0.400	5146.00000	0.2488	1.00	13638.00000	0.2687
m-,p-Xylene	NA	NA	NA	0.800	17267.00000	0.5198	2.00	42498.00000	0.5137
n-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	36080.00000	1.573
n-Propylbenzene	NA	NA	NA	0.400	22773.00000	2.449	1.00	57237.00000	2.496
o-Xylene	NA	NA	NA	0.400	8355.00000	0.5031	1.00	19752.00000	0.4775
p-Isopropyltoluene	NA	NA	NA	NA	NA	NA	1.00	46534.00000	2.029
sec-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	53369.00000	2.327
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	1.00	9933.00000	0.4331
trans-1,2-Dichloroethene	NA	NA	NA	0.400	3877.00000	0.1875	1.00	9967.00000	0.1964
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	1.00	12348.00000	0.2985

Login Number: L08120133
Analytical Method: 8260B

Instrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte	WG289038-05			WG289038-06			WG289038-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	2.00	10558.0000	0.1049	5.00	32770.0000	0.1312	20.0	144027.000	0.1458
Dibromochloromethane	2.00	16310.0000	0.2008	5.00	44641.0000	0.2195	20.0	199901.000	0.2446
Dibromomethane	2.00	9807.00000	0.09750	5.00	25265.0000	0.1012	20.0	102168.000	0.1034
Dichlorodifluoromethane	2.00	21878.0000	0.2174	5.00	59345.0000	0.2377	20.0	243710.000	0.2467
Hexachlorobutadiene	2.00	11035.0000	0.2439	5.00	32443.0000	0.2837	20.0	128441.000	0.2797
Isopropylbenzene	2.00	104645.000	1.288	5.00	282594.000	1.390	20.0	1127112.00	1.379
Methylene Chloride	2.00	27023.0000	0.2685	5.00	59413.0000	0.2380	20.0	210133.000	0.2127
Naphthalene	2.00	69400.0000	1.534	5.00	176857.000	1.547	20.0	725789.000	1.581
Styrene	2.00	69150.0000	0.8513	5.00	185503.000	0.9121	20.0	755443.000	0.9242
Tetrachloroethene	2.00	18358.0000	0.2260	5.00	50532.0000	0.2485	20.0	196906.000	0.2409
Trichloroethene	2.00	28855.0000	0.2867	5.00	69819.0000	0.2796	20.0	259767.000	0.2630
Trichlorofluoromethane	2.00	36425.0000	0.3620	5.00	97338.0000	0.3899	20.0	387902.000	0.3927
Vinyl Acetate	NA	NA	NA	5.00	9636.00000	0.03860	20.0	62070.0000	0.06280
cis-1,2-Dichloroethene	2.00	21377.0000	0.2124	5.00	60397.0000	0.2419	20.0	225618.000	0.2284
cis-1,3-Dichloropropene	2.00	26336.0000	0.2617	5.00	75247.0000	0.3014	20.0	316467.000	0.3204
m-,p-Xylene	4.00	84095.0000	0.5177	10.0	228847.000	0.5626	40.0	891423.000	0.5453
n-Butylbenzene	2.00	74431.0000	1.645	5.00	208952.000	1.827	20.0	844574.000	1.839
n-Propylbenzene	2.00	110867.000	2.450	5.00	307707.000	2.691	20.0	1240072.00	2.700
o-Xylene	2.00	41234.0000	0.5076	5.00	109945.000	0.5406	20.0	439944.000	0.5382
p-Isopropyltoluene	2.00	93747.0000	2.072	5.00	259522.000	2.269	20.0	1043198.00	2.272
sec-Butylbenzene	2.00	105225.000	2.326	5.00	293943.000	2.570	20.0	1161382.00	2.529
tert-Butylbenzene	2.00	18325.0000	0.4050	5.00	53075.0000	0.4641	20.0	206990.000	0.4507
trans-1,2-Dichloroethene	2.00	20733.0000	0.2060	5.00	56015.0000	0.2243	20.0	214566.000	0.2172
trans-1,3-Dichloropropene	2.00	21856.0000	0.2691	5.00	65056.0000	0.3199	20.0	280478.000	0.3431

Login Number: L08120133
Analytical Method: 8260BInstrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte	WG289038-08			WG289038-09			WG289038-10		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Chloroethane	50.0	365915.000	0.1437	100	790900.000	0.1448	200	1251276.00	0.1321
Dibromochloromethane	50.0	561785.000	0.2685	100	1144550.00	0.2532	200	2107262.00	0.2337
Dibromomethane	50.0	270198.000	0.1061	100	547697.000	0.1003	200	983607.000	0.1038
Dichlorodifluoromethane	50.0	575710.000	0.2261	100	1275258.00	0.2335	200	2064143.00	0.2179
Hexachlorobutadiene	50.0	318451.000	0.2709	100	614752.000	0.2703	200	1146779.00	0.2613
Isopropylbenzene	50.0	2850002.00	1.362	100	5784286.00	1.280	200	10340629.0	1.147
Methylene Chloride	50.0	533247.000	0.2095	100	1143151.00	0.2093	200	1861403.00	0.1965
Naphthalene	50.0	1855706.00	1.578	100	3409862.00	1.499	200	6275005.00	1.430
Styrene	50.0	1940845.00	0.9276	100	3873219.00	0.8568	200	6969888.00	0.7729
Tetrachloroethene	50.0	497194.000	0.2376	100	1059828.00	0.2344	200	1838843.00	0.2039
Trichloroethene	50.0	663247.000	0.2605	100	1370656.00	0.2509	200	2224774.00	0.2349
Trichlorofluoromethane	50.0	951113.000	0.3736	100	2113644.00	0.3869	200	3391857.00	0.3581
Vinyl Acetate	50.0	333042.000	0.1308	100	804203.000	0.1472	200	1608346.00	0.1698
cis-1,2-Dichloroethene	50.0	601910.000	0.2364	100	1280523.00	0.2344	200	2193316.00	0.2316
cis-1,3-Dichloropropene	50.0	857860.000	0.3370	100	1775063.00	0.3249	200	3114860.00	0.3288
m-,p-Xylene	100	2207251.00	0.5275	200	4453076.00	0.4925	400	7603407.00	0.4216
n-Butylbenzene	50.0	2177743.00	1.852	100	4273807.00	1.879	200	7743399.00	1.764
n-Propylbenzene	50.0	3165794.00	2.693	100	6394031.00	2.811	200	11374760.0	2.592
o-Xylene	50.0	1112963.00	0.5319	100	2254029.00	0.4986	200	4063869.00	0.4507
p-Isopropyltoluene	50.0	2641045.00	2.246	100	5107611.00	2.246	200	9158172.00	2.087
sec-Butylbenzene	50.0	2970743.00	2.527	100	5844661.00	2.570	200	10562278.0	2.407
tert-Butylbenzene	50.0	518434.000	0.4410	100	1001449.00	0.4403	200	1808591.00	0.4121
trans-1,2-Dichloroethene	50.0	570094.000	0.2239	100	1206507.00	0.2209	200	1951060.00	0.2060
trans-1,3-Dichloropropene	50.0	768194.000	0.3671	100	1557615.00	0.3445	200	2818366.00	0.3125

Login Number: L08120133
Analytical Method: 8260B

Instrument ID: HPMS11
Initial Calibration Date: 25-NOV-08 21:08
Column ID: F

Analyte	WG289038-11		
	CONC	RESP	RF
Chloroethane	NA	NA	NA
Dibromochloromethane	NA	NA	NA
Dibromomethane	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA
Isopropylbenzene	NA	NA	NA
Methylene Chloride	NA	NA	NA
Naphthalene	NA	NA	NA
Styrene	NA	NA	NA
Tetrachloroethene	NA	NA	NA
Trichloroethene	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA
Vinyl Acetate	300	2776303.00	0.1848
cis-1,2-Dichloroethene	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA
m-,p-Xylene	NA	NA	NA
n-Butylbenzene	NA	NA	NA
n-Propylbenzene	NA	NA	NA
o-Xylene	NA	NA	NA
p-Isopropyltoluene	NA	NA	NA
sec-Butylbenzene	NA	NA	NA
tert-Butylbenzene	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA

Login Number: L08120133 Run Date: 11/25/2008 Sample ID: WG289038-12
Instrument ID: HPMS11 Run Time: 22:44 Method: 8260B
File ID: 11M55554 Analyst: WTD QC Key: STD
ICal Workgroup: WG289038 Cal ID: HPMS11 - 25-NOV-08

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	20.0	21.8	ug/L	0.410	9.10	30	
1,1-Dichloroethene	CCC	20.0	20.0	ug/L	0.365	0.200	30	
1,2-Dichloropropane	CCC	20.0	20.6	ug/L	0.235	3.00	30	
Ethylbenzene	CCC	20.0	20.8	ug/L	0.436	4.00	30	
Toluene	CCC	20.0	20.0	ug/L	1.10	0.200	30	
Vinyl Chloride	CCC	20.0	21.8	ug/L	0.167	9.10	30	
Bromoform	SPCC	20.0	18.8	ug/L	0.127	5.90	30	
Chlorobenzene	SPCC	20.0	20.4	ug/L	0.792	1.90	30	
Chloromethane	SPCC	20.0	24.3	ug/L	0.215	21.6	30	
1,1-Dichloroethane	SPCC	20.0	20.3	ug/L	0.429	1.40	30	
1,1,2,2-Tetrachloroethane	SPCC	20.0	20.8	ug/L	0.353	4.20	30	
Acetone		20.0	26.4	ug/L	0.0626	31.9	30	*
Benzene		20.0	20.3	ug/L	0.824	1.60	30	
Bromobenzene		20.0	20.0	ug/L	0.624	0.100	30	
Bromochloromethane		20.0	21.6	ug/L	0.143	8.10	30	
Bromodichloromethane		20.0	21.9	ug/L	0.290	9.60	30	
Bromomethane		20.0	36.5	ug/L	0.172	82.5	30	*
2-Butanone		20.0	22.6	ug/L	0.0750	13.1	30	
n-Butylbenzene		20.0	19.8	ug/L	1.75	0.900	30	
sec-Butylbenzene		20.0	19.3	ug/L	2.38	3.50	30	
tert-Butylbenzene		20.0	19.3	ug/L	0.421	3.40	30	
Carbon Disulfide		20.0	17.7	ug/L	0.535	11.4	30	
Carbon Tetrachloride		20.0	20.7	ug/L	0.280	3.70	30	
Dibromochloromethane		20.0	21.5	ug/L	0.244	7.70	30	
Chloroethane		20.0	25.9	ug/L	0.172	29.4	30	
2-Chloroethyl Vinyl Ether		20.0	20.6	ug/L	0.105	3.20	30	
2-Chlorotoluene		20.0	19.7	ug/L	1.58	1.50	30	
4-Chlorotoluene		20.0	19.8	ug/L	1.65	1.10	30	
1,2-Dibromo-3-Chloropropane		20.0	19.7	ug/L	0.0666	1.40	30	
1,2-Dibromoethane		20.0	20.6	ug/L	0.194	2.90	30	
Dibromomethane		20.0	21.2	ug/L	0.106	5.80	30	
1,2-Dichlorobenzene		20.0	20.4	ug/L	1.14	2.10	30	
1,3-Dichlorobenzene		20.0	20.1	ug/L	1.22	0.500	30	
1,4-Dichlorobenzene		20.0	19.6	ug/L	1.24	1.90	30	
Dichlorodifluoromethane		20.0	28.5	ug/L	0.332	42.7	30	*
1,2-Dichloroethane		20.0	20.2	ug/L	0.325	1.20	30	
cis-1,2-Dichloroethene		20.0	20.7	ug/L	0.236	3.40	30	
trans-1,2-Dichloroethene		20.0	20.1	ug/L	0.212	0.600	30	
1,3-Dichloropropane		20.0	21.1	ug/L	0.335	5.40	30	
2,2-Dichloropropane		20.0	16.9	ug/L	0.195	15.3	30	
cis-1,3-Dichloropropene		20.0	20.4	ug/L	0.305	2.00	30	
trans-1,3-Dichloropropene		20.0	18.2	ug/L	0.293	9.00	30	

Login Number: L08120133 Run Date: 11/25/2008 Sample ID: WG289038-12
Instrument ID: HPMS11 Run Time: 22:44 Method: 8260B
File ID: 11M55554 Analyst: WTD QC Key: STD
ICal Workgroup: WG289038 Cal ID: HPMS11 - 25-NOV-08

Analyte	Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene	20.0	19.9	ug/L	0.286	0.300	30	
2-Hexanone	20.0	22.0	ug/L	0.139	9.80	30	
Hexachlorobutadiene	20.0	20.3	ug/L	0.262	1.40	30	
Isopropylbenzene	20.0	18.6	ug/L	1.21	6.80	30	
p-Isopropyltoluene	20.0	19.2	ug/L	2.09	4.00	30	
4-Methyl-2-Pentanone	20.0	20.3	ug/L	0.0665	1.30	30	
Methylene Chloride	20.0	19.5	ug/L	0.213	2.70	30	
Naphthalene	20.0	20.6	ug/L	1.57	3.00	30	
n-Propylbenzene	20.0	19.3	ug/L	2.52	3.40	30	
Styrene	20.0	21.6	ug/L	0.928	7.80	30	
1,1,1,2-Tetrachloroethane	20.0	21.5	ug/L	0.275	7.30	30	
Tetrachloroethene	20.0	20.1	ug/L	0.231	0.500	30	
1,2,3-Trichlorobenzene	20.0	20.6	ug/L	0.674	2.90	30	
1,2,4-Trichlorobenzene	20.0	20.4	ug/L	0.764	1.90	30	
1,1,1-Trichloroethane	20.0	20.2	ug/L	0.350	1.00	30	
1,1,2-Trichloroethane	20.0	21.7	ug/L	0.193	8.70	30	
Trichloroethene	20.0	19.1	ug/L	0.254	4.40	30	
Trichlorofluoromethane	20.0	22.8	ug/L	0.431	14.1	30	
1,2,3-Trichloropropane	20.0	20.1	ug/L	0.128	0.400	30	
1,2,4-Trimethylbenzene	20.0	20.1	ug/L	2.06	0.600	30	
1,3,5-Trimethylbenzene	20.0	19.8	ug/L	2.00	0.800	30	
Vinyl Acetate	20.0	27.6	ug/L	0.134	38.1	40	
o-Xylene	20.0	21.1	ug/L	0.533	5.30	30	
m-,p-Xylene	40.0	42.2	ug/L	0.541	5.50	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

Login Number: L08120133 Run Date: 12/08/2008 Sample ID: WG289858-02
Instrument ID: HPMS11 Run Time: 12:01 Method: 8260B
File ID: 11M55856 Analyst: WTD QC Key: STD
Workgroup (AAB#): WG289859 Cal ID: HPMS11 - 25-NOV-08
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	51.5	ug/L	0.387	3.09	20	
1,1-Dichloroethene	CCC	50.0	55.7	ug/L	0.408	11.4	20	
1,2-Dichloropropane	CCC	50.0	48.6	ug/L	0.222	2.80	20	
Ethylbenzene	CCC	50.0	48.1	ug/L	0.404	3.72	20	
Toluene	CCC	50.0	47.5	ug/L	1.04	4.90	20	
Vinyl Chloride	CCC	50.0	51.0	ug/L	0.149	2.04	20	
Bromoform	SPCC	50.0	43.2	ug/L	0.117	13.5	40	
Chlorobenzene	SPCC	50.0	46.9	ug/L	0.729	6.26	40	
Chloromethane	SPCC	50.0	41.3	ug/L	0.151	17.4	40	
1,1-Dichloroethane	SPCC	50.0	52.9	ug/L	0.447	5.71	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.9	ug/L	0.324	4.21	40	
Acetone		50.0	56.1	ug/L	0.0533	12.2	40	
Benzene		50.0	48.9	ug/L	0.794	2.15	40	
Bromobenzene		50.0	49.1	ug/L	0.612	1.88	40	
Bromochloromethane		50.0	49.5	ug/L	0.131	0.939	40	
Bromodichloromethane		50.0	51.1	ug/L	0.271	2.23	40	
Bromomethane		50.0	49.0	ug/L	0.0920	2.10	40	
2-Butanone		50.0	47.4	ug/L	0.0628	5.28	40	
n-Butylbenzene		50.0	50.5	ug/L	1.78	0.922	40	
sec-Butylbenzene		50.0	50.2	ug/L	2.48	0.478	40	
tert-Butylbenzene		50.0	49.6	ug/L	0.432	0.856	40	
Carbon Disulfide		50.0	50.0	ug/L	0.593	0.0472	40	
Carbon Tetrachloride		50.0	59.9	ug/L	0.323	19.7	40	
Dibromochloromethane		50.0	50.7	ug/L	0.230	1.49	40	
Chloroethane		50.0	54.4	ug/L	0.145	8.87	40	
2-Chloroethyl Vinyl Ether		50.0	45.6	ug/L	0.0929	8.76	40	
2-Chlorotoluene		50.0	50.3	ug/L	1.62	0.653	40	
4-Chlorotoluene		50.0	51.4	ug/L	1.72	2.88	40	
1,2-Dibromo-3-Chloropropane		50.0	42.8	ug/L	0.0579	14.3	40	
1,2-Dibromoethane		50.0	43.5	ug/L	0.165	12.9	40	
Dibromomethane		50.0	46.2	ug/L	0.0923	7.68	40	
1,2-Dichlorobenzene		50.0	45.8	ug/L	1.02	8.48	40	
1,3-Dichlorobenzene		50.0	48.2	ug/L	1.17	3.56	40	
1,4-Dichlorobenzene		50.0	46.6	ug/L	1.17	6.71	40	
Dichlorodifluoromethane		50.0	57.1	ug/L	0.266	14.2	40	
1,2-Dichloroethane		50.0	46.9	ug/L	0.301	6.21	40	
cis-1,2-Dichloroethene		50.0	49.1	ug/L	0.224	1.83	40	
trans-1,2-Dichloroethene		50.0	51.9	ug/L	0.218	3.87	40	
1,3-Dichloropropane		50.0	43.9	ug/L	0.279	12.2	40	
2,2-Dichloropropane		50.0	62.3	ug/L	0.331	24.6	40	
cis-1,3-Dichloropropene		50.0	51.6	ug/L	0.309	3.21	40	
trans-1,3-Dichloropropene		50.0	50.5	ug/L	0.326	1.05	40	

CCV - Modified 03/05/2008
PDF File ID: 1270985
Report generated 12/11/2008 10:12



Login Number: L08120133	Run Date: 12/08/2008	Sample ID: WG289858-02
Instrument ID: HPMS11	Run Time: 12:01	Method: 8260B
File ID: 11M55856	Analyst: WTD	QC Key: STD
Workgroup (AAB#): WG289859	Cal ID: HPMS11 - 25-NOV-08	
Matrix: WATER		

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	51.5	ug/L	0.295	3.09	40	
2-Hexanone		50.0	43.5	ug/L	0.111	13.0	40	
Hexachlorobutadiene		50.0	45.4	ug/L	0.235	9.18	40	
Isopropylbenzene		50.0	47.7	ug/L	1.24	4.52	40	
p-Isopropyltoluene		50.0	49.5	ug/L	2.15	0.923	40	
4-Methyl-2-Pentanone		50.0	42.2	ug/L	0.0554	15.7	40	
Methylene Chloride		50.0	58.6	ug/L	0.249	17.2	40	
Naphthalene		50.0	38.8	ug/L	1.18	22.4	40	
n-Propylbenzene		50.0	53.5	ug/L	2.79	7.06	40	
Styrene		50.0	47.5	ug/L	0.818	4.92	40	
1,1,1,2-Tetrachloroethane		50.0	50.7	ug/L	0.259	1.36	40	
Tetrachloroethene		50.0	45.4	ug/L	0.209	9.26	40	
1,2,3-Trichlorobenzene		50.0	38.9	ug/L	0.509	22.2	40	
1,2,4-Trichlorobenzene		50.0	41.3	ug/L	0.619	17.5	40	
1,1,1-Trichloroethane		50.0	52.5	ug/L	0.363	4.94	40	
1,1,2-Trichloroethane		50.0	43.8	ug/L	0.156	12.3	40	
Trichloroethene		50.0	48.4	ug/L	0.252	3.12	40	
Trichlorofluoromethane		50.0	60.8	ug/L	0.459	21.5	40	
1,2,3-Trichloropropane		50.0	45.2	ug/L	0.115	9.67	40	
1,2,4-Trimethylbenzene		50.0	50.4	ug/L	2.06	0.808	40	
1,3,5-Trimethylbenzene		50.0	52.0	ug/L	2.09	4.04	40	
Vinyl Acetate		50.0	38.5	ug/L	0.0947	22.9	40	
o-Xylene		50.0	47.8	ug/L	0.484	4.37	40	
m-,p-Xylene		100	96.7	ug/L	0.496	3.28	40	
1,2-Dichloroethene		100	101	ug/L	0.221	1.02	40	
Xylenes		150	145	ug/L	0.490	3.64	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08120133	Run Date: 12/09/2008	Sample ID: WG289940-02
Instrument ID: HPMS11	Run Time: 09:23	Method: 8260B
File ID: 11M55884	Analyst: WTD	QC Key: STD
Workgroup (AAB#): WG289946	Cal ID: HPMS11 - 25-NOV-08	
Matrix: WATER		

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	57.2	ug/L	0.430	14.4	20	
1,1-Dichloroethene	CCC	50.0	58.6	ug/L	0.429	17.1	20	
1,2-Dichloropropane	CCC	50.0	54.2	ug/L	0.247	8.31	20	
Ethylbenzene	CCC	50.0	51.2	ug/L	0.429	2.38	20	
Toluene	CCC	50.0	50.3	ug/L	1.10	0.528	20	
Vinyl Chloride	CCC	50.0	53.8	ug/L	0.157	7.59	20	
Bromoform	SPCC	50.0	52.3	ug/L	0.142	4.53	40	
Chlorobenzene	SPCC	50.0	50.5	ug/L	0.785	0.952	40	
Chloromethane	SPCC	50.0	45.7	ug/L	0.168	8.65	40	
1,1-Dichloroethane	SPCC	50.0	57.4	ug/L	0.485	14.8	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	54.1	ug/L	0.366	8.14	40	
Acetone		50.0	56.3	ug/L	0.0534	12.6	40	
Benzene		50.0	53.0	ug/L	0.859	5.93	40	
Bromobenzene		50.0	49.7	ug/L	0.620	0.579	40	
Bromochloromethane		50.0	53.3	ug/L	0.141	6.51	40	
Bromodichloromethane		50.0	58.8	ug/L	0.311	17.6	40	
Bromomethane		50.0	50.1	ug/L	0.0942	0.289	40	
2-Butanone		50.0	55.0	ug/L	0.0729	9.95	40	
n-Butylbenzene		50.0	51.8	ug/L	1.83	3.66	40	
sec-Butylbenzene		50.0	50.5	ug/L	2.49	1.03	40	
tert-Butylbenzene		50.0	49.4	ug/L	0.430	1.30	40	
Carbon Disulfide		50.0	50.1	ug/L	0.594	0.143	40	
Carbon Tetrachloride		50.0	64.6	ug/L	0.349	29.2	40	
Dibromochloromethane		50.0	57.1	ug/L	0.259	14.2	40	
Chloroethane		50.0	50.6	ug/L	0.134	1.16	40	
2-Chloroethyl Vinyl Ether		50.0	48.3	ug/L	0.0982	3.49	40	
2-Chlorotoluene		50.0	49.6	ug/L	1.59	0.822	40	
4-Chlorotoluene		50.0	52.2	ug/L	1.74	4.40	40	
1,2-Dibromo-3-Chloropropane		50.0	51.7	ug/L	0.0698	3.38	40	
1,2-Dibromoethane		50.0	49.9	ug/L	0.189	0.181	40	
Dibromomethane		50.0	52.8	ug/L	0.106	5.54	40	
1,2-Dichlorobenzene		50.0	49.1	ug/L	1.09	1.78	40	
1,3-Dichlorobenzene		50.0	50.0	ug/L	1.21	0.0464	40	
1,4-Dichlorobenzene		50.0	49.0	ug/L	1.23	2.03	40	
Dichlorodifluoromethane		50.0	48.2	ug/L	0.225	3.50	40	
1,2-Dichloroethane		50.0	55.5	ug/L	0.356	10.9	40	
cis-1,2-Dichloroethene		50.0	53.7	ug/L	0.245	7.38	40	
trans-1,2-Dichloroethene		50.0	55.9	ug/L	0.235	11.8	40	
1,3-Dichloropropane		50.0	50.3	ug/L	0.320	0.617	40	
2,2-Dichloropropane		50.0	49.8	ug/L	0.261	0.392	40	
cis-1,3-Dichloropropene		50.0	57.0	ug/L	0.341	14.1	40	
trans-1,3-Dichloropropene		50.0	55.4	ug/L	0.357	10.8	40	

CCV - Modified 03/05/2008
PDF File ID: 1270985
Report generated 12/11/2008 10:12



Login Number: L08120133	Run Date: 12/09/2008	Sample ID: WG289940-02
Instrument ID: HPMS11	Run Time: 09:23	Method: 8260B
File ID: 11M55884	Analyst: WTD	QC Key: STD
Workgroup (AAB#): WG289946	Cal ID: HPMS11 - 25-NOV-08	
Matrix: WATER		

Analyte	Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene	50.0	55.8	ug/L	0.319	11.5	40	
2-Hexanone	50.0	54.6	ug/L	0.139	9.15	40	
Hexachlorobutadiene	50.0	46.4	ug/L	0.240	7.28	40	
Isopropylbenzene	50.0	51.2	ug/L	1.33	2.45	40	
p-Isopropyltoluene	50.0	50.5	ug/L	2.20	0.965	40	
4-Methyl-2-Pentanone	50.0	49.8	ug/L	0.0653	0.498	40	
Methylene Chloride	50.0	51.5	ug/L	0.220	3.05	40	
Naphthalene	50.0	46.5	ug/L	1.42	6.94	40	
n-Propylbenzene	50.0	52.8	ug/L	2.76	5.63	40	
Styrene	50.0	52.3	ug/L	0.900	4.61	40	
1,1,1,2-Tetrachloroethane	50.0	55.2	ug/L	0.282	10.3	40	
Tetrachloroethene	50.0	49.1	ug/L	0.226	1.87	40	
1,2,3-Trichlorobenzene	50.0	46.3	ug/L	0.607	7.33	40	
1,2,4-Trichlorobenzene	50.0	46.6	ug/L	0.698	6.88	40	
1,1,1-Trichloroethane	50.0	57.4	ug/L	0.398	14.8	40	
1,1,2-Trichloroethane	50.0	50.0	ug/L	0.177	0.0852	40	
Trichloroethene	50.0	50.4	ug/L	0.261	0.729	40	
Trichlorofluoromethane	50.0	54.8	ug/L	0.414	9.56	40	
1,2,3-Trichloropropane	50.0	51.0	ug/L	0.130	2.03	40	
1,2,4-Trimethylbenzene	50.0	51.6	ug/L	2.11	3.23	40	
1,3,5-Trimethylbenzene	50.0	51.9	ug/L	2.09	3.81	40	
Vinyl Acetate	50.0	39.7	ug/L	0.0990	20.6	40	
o-Xylene	50.0	51.0	ug/L	0.516	1.98	40	
m-,p-Xylene	100	103	ug/L	0.528	2.98	40	
1,2-Dichloroethene	100	110	ug/L	0.240	9.60	40	
Xylenes	150	154	ug/L	0.522	2.64	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds

SPCC System Performance Check Compounds

Login Number: L08120133
Instrument ID: HPMS11
Workgroup (AAB#): WG289859

CCV Number: WG289858-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289858-02	NA	NA	684200	1392239	1651813
Upper Limit	NA	NA	1368400	2784478	3303626
Lower Limit	NA	NA	342100	696120	825907
L08120133-01	1.00	01	391778	732505	877165
L08120133-02	1.00	01	381237	716730	855161
L08120133-03	1.00	01	378235	703367	838530
L08120133-04	1.00	01	370124	693372	819749
L08120133-05	1.00	01	364110	687869	819731
WG289859-01	1.00	01	567054	1049499	1281215
WG289859-02	1.00	01	607440	1107674	1282791
WG289859-03	1.00	01	601033	1121818	1317358

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120133
Instrument ID: HPMS11
Workgroup (AAB#): WG289946

CCV Number: WG289940-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289940-02	NA	NA	541457	998365	1202592
Upper Limit	NA	NA	1082914	1996730	2405184
Lower Limit	NA	NA	270729	499183	601296
L08120133-04	1.00	A1	465025	886705	1074847
L08120133-05	1.00	A1	456904	886278	1063140
WG289946-01	1.00	01	508291	967362	1173983
WG289946-02	1.00	01	500758	902496	1049119
WG289946-03	1.00	01	527694	945063	1117898

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120133
Instrument ID: HPMS11
Workgroup (AAB#): WG289859

ICAL CCV Number: WG289038-08
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289038-08	NA	NA	587829	1046175	1272908
Upper Limit	NA	NA	1175658	2092350	2545816
Lower Limit	NA	NA	293915	523088	636454
<u>L08120133-01</u>	<u>1.00</u>	<u>01</u>	<u>391778</u>	<u>732505</u>	<u>877165</u>
L08120133-02	1.00	01	381237	716730	855161
L08120133-03	1.00	01	378235	703367	838530
L08120133-04	1.00	01	370124	693372	819749
L08120133-05	1.00	01	364110	687869	819731
WG289859-01	1.00	01	567054	1049499	1281215
WG289859-02	1.00	01	607440	1107674	1282791
WG289859-03	1.00	01	601033	1121818	1317358

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120133
Instrument ID: HPMS11
Workgroup (AAB#): WG289859

CCV Number: WG289858-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289858-02	NA	NA	16.5	13.71	10.09
Upper Limit	NA	NA	17	14.21	10.59
Lower Limit	NA	NA	16	13.21	9.59
L08120133-01	1.00	01	16.502	13.71	10.091
L08120133-02	1.00	01	16.502	13.71	10.091
L08120133-03	1.00	01	16.502	13.71	10.091
L08120133-04	1.00	01	16.502	13.71	10.091
L08120133-05	1.00	01	16.502	13.71	10.091
WG289859-01	1.00	01	16.502	13.71	10.091
WG289859-02	1.00	01	16.502	13.71	10.091
WG289859-03	1.00	01	16.502	13.7	10.091

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

Login Number: L08120133
Instrument ID: HPMS11
Workgroup (AAB#): WG289946

CCV Number: WG289940-02
CAL ID: HPMS11 - 25-NOV-08
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG289940-02	NA	NA	16.5	13.71	10.09
Upper Limit	NA	NA	17	14.21	10.59
Lower Limit	NA	NA	16	13.21	9.59
L08120133-04	1.00	A1	16.502	13.71	10.091
L08120133-05	1.00	A1	16.502	13.71	10.091
WG289946-01	1.00	01	16.502	13.71	10.091
WG289946-02	1.00	01	16.502	13.71	10.091
WG289946-03	1.00	01	16.502	13.71	10.091

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

3.0 Attachments

Microbac Laboratories Inc.
Analyst Listing
December 15, 2008

ADC - ANTHONY D. CANTER	AJF - AMANDA J. FICKIESEN	ALB - ANNIE L. BROWN
AM - ALISON J. MILLER	AML - ANTHONY M. LONG	BRG - BRENDA R. GREGORY
CAA - CASSIE A. AUGENSTEIN	CAF - CHERYL A. FLOWERS	CAH - CHARLES A. HALL
CEB - CHAD E. BARNES	CLC - CHRYS L. CRAWFORD	CLW - CHARISSA L. WINTERS
CMS - CRYSTAL M. STEPHENS	CPD - CHAD P. DAVIS	CSH - CHRIS S. HILL
CTB - CHRIS T. BUCINA	DDE - DEBRA D. ELLIOTT	DEL - DON E. LIGHTFRITZ
DEV - DAVID E. VANDENBERG	DGB - DOUGLAS G. BUTCHER	DIH - DEANNA I. HESSON
DLB - DAVID L. BUMGARNER	DLP - DOROTHY L. PAYNE	DLR - DIANNA L. RAUCH
DR - DEANNA ROBERTS	DSF - DEBRA S. FREDERICK	EAB - EDDIE A. BYERS
ECL - ERIC C. LAWSON	ED - EMILY E. DECKER	EDA - ERIN D. AGEES
EDH - ETHAN D. MORRIS	ERP - ERIN R. PORTER	FJB - FRANCES J. BOLDEN
HAV - HEMA VILASAGAR	HJR - HOLLY J. REED	JBK - JEREMY B. KINNEY
JC - JOHN L. CONLEY	JDH - JUSTIN D. HESSON	JKP - JACQUELINE K. PARSONS
JKT - JANE K. THOMPSON	JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES
JYH - JI Y. HU	KEB - KATHRYN E. BARNES	KHR - KIM H. RHODES
KJW - KATIE J. WIEFERICH	KRA - KATHY R. ALBERTSON	LHT - LANCE H. THOMPSON
LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA	MDA - MIKE D. ALBERTSON
MDC - MICHAEL D. COCHRAN	MES - MARY E. SCHILLING	MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON	NPM - NATHANIEL P. MILLER
PDM - PIERCE D. MORRIS	RAH - ROY A. HALSTEAD	RB - ROBERT BUCHANAN
REK - ROBERT E. KYER	RLK - ROBIN L. KLINGER	RWC - RODNEY W. CAMPBELL
SAV - SARAH A. VANDENBERG	SDH - SHANA D. HINYARD	SDL - SHELLY D. LENT
SLM - STEPHANIE L. MOSSBURG	SLP - SHERI L. PFALZGRAF	SMH - SHAUNA M. HYDE
TDH - TRICIA D. HUCK	TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS	VC - VICKI COLLIER	WTD - WADE T. DELONG

List of Valid Qualifiers

December 15, 2008

Qualifier: STD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B3	Target analyte detected in calibration blank at or above the method reporting limit
C	Confirmed by GC/MS
CG	Confluent growth
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
E1	Concentration estimated. Analyte exceeded calibration range. Insufficient sample for reanalysis.
E2	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to matrix.
E3	Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.
M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration is disproportionate to the spike level.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria fail. See narrative.
Q1	Sample integrity was not maintained. See report narrative.
QNS	Quantity of sample not sufficient to perform analysis
R1	Duplicate RPD/RSD exceeded the method acceptance limit.
R2	Duplicate RPD/RSD exceeded the laboratory acceptance limit.
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Undetected; the concentration is below the reported MDL.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	CCV recovery was above method acceptance limits. Insufficient volume for sample reanalysis.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

***Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.



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Chain of Custody

Laboratory Name: MICROBAC LABS		Address: 158 Starlite Dr Mannetta, Ohio		Contact: Stephanie Mossburg															
Project Name: Longhorn AAP		Project Location: Karnack, Tx		Analysis and Method Desired (Indicate separate containers)															
Project No.: 117591.63500000		Project Contact: JENNIFER Hoang		Project Telephone No.: (713) 996-4408															
Point of Contact: Allen Willmore		Project Manager/Supervisor: Praveen Srivastav		Telephone No.: (713) 247-9292															
Item No.	Sample Number	Date	Time	Comp	Grab	Matrix	Sample Description, Location	Number of Containers											
1	16 WW19-120408	12/4/08	12:30		✓	W	Site 16	0928 500L	X										
2	16 WW20-120408	12/4/08	10:00		✓	W	Site 16	0928 500L	X										1 container broke
3	16 WW20-120408-FD	12/4/08	10:00		✓	W	Site 16	0928 500L	X										Field Duplicate
4	16 WW21-120408	12/4/08	10:55		✓	W	Site 16	0928 500L	X										
5																			
6																			
7																			
8																			
9																			
10																			
Transfers Relinquished By (signature)		Date/Time		Transfers Accepted By (signature)		Date/Time		Special Instructions											
<i>M. Mossburg</i>		12/4/08 17:00		<i>Praveen Srivastav</i>				24-hour TAT											
								FedEx Airbill No.:											
								Sampler's Signature <i>M. Mossburg</i>											
TAT: <u>24-hr</u> Standard		Rush Date		Seals Intact? <u>Y</u> <u>N</u>		Received Good Condition <u>Y</u> <u>N</u>		Cold											

Client: <u>Shaw</u>			
Workorder Number: <u>B</u>			
Date Received: <u>12-5-08</u>			
Delivered by:	☐ Fedx	☒ UPS	☐ Client ☐ Courier Time: <u>935</u>
Opened by: <u>RLL</u>			
IR Temp Gun:	☒ D	☐ G	
Logged by:	<u>RLL</u>	<u>L</u>	<u>08120133</u>

Cooler information

Cooler ID	Temp C	Airbill#	COC#	Other
855	0	1Z 66V 725 01 9245 1487	5737	water - QT <u>24 hr.</u>

Inspection Checklist

	Y	N	NA	Discrepancy ID
Were shipping coolers sealed?	☒	☐	☐	
Were custody seals intact?	☒	☐	☐	
Were cooler temperatures in range of 0 - 6?	☒	☐	☐	
Was ice present?	☒	☐	☐	
Were COC's received/ information complete/signed and dated?	☒	☐	☐	
Were sample containers and labels intact and match COC?	☒	☐	☐	
Were the correct containers and volumes received?	☒	☐	☐	
Were correct preservatives used? (water only)	☐	☐	☒	
Were pH ranges acceptable? (voa's excluded)	☐	☐	☒	
Were VOA samples free of headspace (< 6mm)?	☒	☐	☐	
Were samples received within EPA hold times?	☒	☐	☐	

Discrepancy/Comments/Other Problems

Distribution

Name of Microbac representative:
Client/Company:
Person Contacted:
Date contacted:

Resolution/other comments:

Internal Chain of Custody Report

Login: L08120133

Account: 2773

Project: 2773.025

Samples: 5

Due Date: 08-DEC-2008

Samplenum **Container ID** **Products**
L08120133-03 532493 826-L0W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:26	TMB	ERE

Samplenum **Container ID** **Products**
L08120133-01 532491 826-L0W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:26	TMB	ERE

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:26	TMB	ERE

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:26	TMB	ERE

Samplenum **Container ID** **Products**
L08120133-04 532494 826-L0W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:26	TMB	ERE

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:27	TMB	ERE

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:27	TMB	ERE

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login



Internal Chain of Custody Report

Login: L08120133

Account: 2773

Project: 2773.025

Samples: 5

Due Date: 08-DEC-2008

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08120133-05	532495	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:27	TMB	ERE

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:27	TMB	ERE

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER		05-DEC-2008 10:35	RLK	

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L08120133-02	532492	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:26	TMB	ERE

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	05-DEC-2008 10:35	RLK	
2	ANALYZ	V1	ORG4	05-DEC-2008 11:26	TMB	ERE

A1 - Sample Archive (COLD)
 A2 - Sample Archive (AMBIENT)
 F1 - Volatiles Freezer in Login
 V1 - Volatiles Refrigerator in Login
 W1 - Walkin Cooler in Login