DECEMBER 04, 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-826-1
TestAmerica Sample Delivery Group: SL1324
Client Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600, MS H8-41
Richland, Washington 99352

Attn: General Mailbox

Authorized for release by:
12/4/2012 4:32:54 PM

Jayna Awalt
Project Manager I
jayna.awalt@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-826-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
December 4, 2012
Attention: Scot Fitzgerald

SDG	: SL1324
Number of Samples	: 11 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: November 2, 2012

II. Introduction

Between October 30, 2012 and November 2, 2012, 11 water samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: I13-002, W13-010, S13-010

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with a LCS/LCS duplicate.

Deviation from Request: None

IV. Definitions

QCBLK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike
DUP- Laboratory Duplicate
MS- Matrix Spike
MSD- Matrix Spike Duplicate

The term “Detection Limit” used in the analytical data report refers to either the lab’s standard reporting limits or contractually required reporting limits, whichever is applicable.

Job ID: 160-826-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** - For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** - For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution.
- **N** - For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** - For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.
- **O**- For all analyses, the LCS (LCSD) recoveries are outside QC limits.

Volatiles

Batch: 15430

Acetone and Methylene Chloride were detected in method blank MB 160-15430/2 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

Batch: 16445

Acetone was detected in method blank MB 160-16445/2 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged.

The LCS/LCSD RPD for 2- Butanone is not within method acceptance criteria. LCS/LCSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.

Semi-Volatiles

Batch: 15622/16261

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 15622 while still keeping volume in case of re-extraction. MS/MSD were extracted using half volume.

The laboratory control sample (LCS) for batch 16261 exceeded control limits for the following analyte:2,4-Dimethylphenol. This analyte was not a target compound; therefore, this excursion does not affect the sample data.

ICP Metals

Batch: 17651/18537

The following samples were diluted to bring the concentration of target and interfering analytes within the calibration range: (160-826-1 MS), (160-826-1 MSD), (160-826-1 SD), B2MPL3 (160-826-2), B2MPL7 (160-826-1). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for batch 17651 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Job ID: 160-826-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

ICPMS Metals

Batch: 17652/17863

Antimony and Silver were detected in method blank MB 160-17652/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “B”. If the associated sample reported a result above the MDL and/or RL, the result has been “C” flagged.

Due to LDR failures, the linear range for boron and beryllium has been lowered to the concentration of the highest calibration standard (boron- 400ppb and beryllium- 200ppb). Any sample with a concentration that exceeds the highest calibration standard will be diluted.

The matrix spike recovery for boron is outside control limits. The RPD is within acceptable limits, indicating a matrix interference. The associated laboratory control sample (LCS) recovery met acceptance criteria. This analyte has been qualified accordingly with an "N" flag in the associated samples.

The LCS and the MS/MSD's were above the LDR for beryllium and boron. The LCS recoveries are within acceptable QC limits. The MS/MSDs are reported as estimated values.

Ion Chromatography

Batch: 15642

Chloride and Fluoride were detected in method blank MB 160-15642/9 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “B”. Sample concentrations that are more than 5 times the amount detected in the method blank do not require flagging.

The matrix spike (MS) recovery for Nitrite in batch 15642 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. This analyte has been qualified accordingly with an "N" flag in the associated samples.
The Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) for Nitrite associated with batch 15642 recovered above the upper control limit. The samples associated with this ICV and CCV were non-detects for Nitrite; therefore, the data have been reported.

Samples were analyzed at a dilution for Nitrate, Chloride and Sulfate due to high concentrations of target/interfering analytes. The reporting limit has been adjusted for the dilution. These analytes have been qualified accordingly with a “D” flag in the associated samples.

There were no observations or nonconformances for the following methods:

Phenols
Carbon 14
Total Cyanide
TOC
TOX

I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the signature on the cover page has authorized release of the data contained in this hard copy data package.

Reviewed and approved:

Jayna Awalt
St. Louis Project Manager

SL1324

CUR 105

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I13-002-141**

Collector	Robert Crow	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I13-002	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	100KR4(1) NOVEMBER 2012	**Logbook No.**	HNF-N-506 36/30	**Ice Chest No.**	GW5-098
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	793955179482
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2MPL7	Y	W	10-29-12	1014	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2MPL3	N	W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2MPL3	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2MPL3	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2MPL3	N	W	10-29-12	1014	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Robert Crow	R Crow	OCT 29 2012 1315	Ed Kwan	Ed Kwan	OCT 29 2012 1315
Ed Kwan	Ed Kwan	10-29-12 1400	FED-X		
FED EX			Steven Claxton	Steven Claxton	10-30-12 0915

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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A-6004-842 (REV 2)

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SL1324

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I13-002-142**

Collector	Robert Crow	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I13-002	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	100KR4(1) NOVEMBER 2012	**Logbook No.**	HNF-N-506 36 / 30	**Ice Chest No.**	GWS-098 44lbs
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7939 5517 9482
Protocol	CERCLA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2MPT0	N	W	10-29-12	1216	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2MPT0	N	W	↓	↓	1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2MPT0	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None
B2MPT4	Y	W	10-29-12	1216	1x500-mL G/P	6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Robert Crow	R Crow		OCT 29 2012 1715	Ed Kraus			OCT 29 2012 1715
Ed Kraus			10-29-12 1400	FED-X			
FED EX				Steven Claxton	Steven Claxton		10-30-12 0915

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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DECEMBER 04, 2012

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FedEx

Detailed Results

Tracking no.: 793955179482 Select time format: 12H

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Oct 29, 2012	EARTH CITY, MO
Delivery date Oct 30, 2012 9:09 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	44.0 lbs/20.0 kg	Reference	GWS-098

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Oct 30, 2012 9:09 AM	**Delivered**	EARTH CITY, MO	
Oct 30, 2012 6:58 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Oct 30, 2012 6:54 AM	At local FedEx facility	EARTH CITY, MO	
Oct 30, 2012 5:20 AM	At destination sort facility	BERKELEY, MO	
Oct 30, 2012 4:28 AM	Departed FedEx location	MEMPHIS, TN	
Oct 29, 2012 5:12 PM	Left FedEx origin facility	PASCO, WA	
Oct 29, 2012 3:44 PM	Picked up	PASCO, WA	
Oct 29, 2012 4:33 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 1 0 5

Lot #(s): 160-825, 160-826, 160-827

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No:

COC/RFA No: See Notes

Initiated By: SC

Date: 10-30-12

Time: ~~09/5~~ 0915 10-30-

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*

1. 7939 5517 9482
2.
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 3
2.
3.
4.
5.
6.
7.
8.
9.
10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, ~~pH of ALL containers received~~ must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

COCs I13-002-141, I13-002-142, X13-002-002, W13-010-118

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: AMS Date: 10-31-12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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SL1324

CUP 105

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-118**

Collector	F. M. Hall	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-010	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, OCTOBER 2012	**Logbook No.**	HNF-N-506 51 / 32	**Ice Chest No.**	GWS-098
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7939555179482
Protocol	RCRA	**Priority:**	30 Days PRIORITY	**Offsite Property No.**	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG.
Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M1C9	N	W	10/26/12	1433	3x1-L aG	8041_PHENOLIC_GC: COMMON	7/40 Days	Na2S2O3/Cool~4C
B2M1C9	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. Hall			OCT 26 2012 1530	SSU #1			OCT 26 2012 1530
SSU #1			10-29-12 1315	Ed Kauer			10-29-12 1315
Ed Kauer			10-29-12 1400	FED-X			
FED EX				Steven Claxton		Steven Claxton	10-30-12 0915

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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A-6004-842 (REV 2)

DECEMBER 04, 2012

12/4/2012

Print page | Close

FedEx

Detailed Results

Tracking no.: 793955179482 Select time format: 12H

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Oct 29, 2012	EARTH CITY, MO
Delivery date Oct 30, 2012 9:09 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	44.0 lbs/20.0 kg	Reference	GWS-098

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Oct 30, 2012 9:09 AM	Delivered	EARTH CITY, MO	
Oct 30, 2012 6:58 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Oct 30, 2012 6:54 AM	At local FedEx facility	EARTH CITY, MO	
Oct 30, 2012 5:20 AM	At destination sort facility	BERKELEY, MO	
Oct 30, 2012 4:28 AM	Departed FedEx location	MEMPHIS, TN	
Oct 29, 2012 5:12 PM	Left FedEx origin facility	PASCO, WA	
Oct 29, 2012 3:44 PM	Picked up	PASCO, WA	
Oct 29, 2012 4:33 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 1 0 5

Lot #(s): 160-825, 160-826, 160-827

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No:

COC/RFA No: See Notes

Initiated By: SC

Date: 10-30-12

Time: ~~0915~~ 0915 10-30-12

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*

1. 7939 5517 9482
2.
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 3
2.
3.
4.
5.
6.
7.
8.
9.
10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

COCs I13-002-141, I13-002-142, X13-002-002, W13-010-118

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: CMS Date: _____

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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SL-1324

CUR 108

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-126**

Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-010	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, OCTOBER 2012	**Logbook No.**	HNF-N-506 51 / 36	**Ice Chest No.**	GWS-294 - 53 Lbs.
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7939 6070 4641
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG.
Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M1N1	N	W	10/29/12	1232	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2M1N1	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC		[signature]	OCT 29 2012 1547	SSU #1		OCT 29 2012	1547
SSU #1			10/30/12 0930	ARMcIntyre		[signature]	10/30/12 0930
ARMcIntyre		[signature]	10/30/12 1400	FED EX			10/30/12
FEDEX				Steven Claxton		Steven Claxton	10-31-12 SC 10-31-12 SC ~~10-30-12~~ 0925

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PRINTED O 8/30/2012

A-6004-842 (REV 2)

DECEMBER 04, 2012

12/4/2012

SL 1324

CUR 108

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-125**

Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-010	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, OCTOBER 2012	**Logbook No.**	HNF-N-506 51/36	**Ice Chest No.**	GWS-294 - 53 Lbs.
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7939 6070 4641
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG.
Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M1N0	N	W	10/29/12	0815	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2M1N0	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			OCT 29 2012 1547	SSU #1			OCT 29 2012 1547
SSU #1			10/30/12 0930	ARM Intyre			10/30/12 0930
ARM Intyre			10/30/12 1400	FED EX			10/30/12
FEDEX				Steven Claxton	Steven Claxton		~~10-30-12~~ 10-31-12 SC 0925

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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Enter tracking number | Track

Detailed Results | Notifications

Tracking no.: 793960704641 — Select time format: 12H | 24H — E-mail notifications

Delivered

Initiated — Picked up — In transit — Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Oct 30, 2012	EARTH CITY, MO
Delivery date Oct 31, 2012 9:22 AM	Signature Proof of Delivery

Shipment Options

Help

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	53.0 lbs/24.0 kg	Reference	GWS-294

Shipment Travel History

Help

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Oct 31, 2012 9:22 AM	Delivered	EARTH CITY, MO	
Oct 31, 2012 7:23 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Oct 31, 2012 7:18 AM	At local FedEx facility	EARTH CITY, MO	
Oct 31, 2012 5:12 AM	At destination sort facility	BERKELEY, MO	
Oct 31, 2012 4:21 AM	Departed FedEx location	MEMPHIS, TN	
Oct 31, 2012 12:23 AM	Arrived at FedEx location	MEMPHIS, TN	
Oct 30, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Oct 30, 2012 3:10 PM	Picked up	PASCO, WA	
Oct 30, 2012 12:49 PM	Shipment information sent to FedEx		

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Lot #(s): 160-832

CUR Form #: 1 0 8

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No:

COC/RFA No: W13-010-125, 126

Initiated By: SC Date: 10-31-12 Time: 0925

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. 7939 6070 4641	6.	1. 3	6.
2.	7.	2.	7.
3.	8.	3.	8.
4.	9.	4.	9.
5.	10.	5.	10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

Corrective Action:

☐ Client Contact Name: Informed by:

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: If released, notify:

Project Management Review: Jayna Avalt Date: 11-2-12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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CH2MHill Plateau Remediation Company SL1324 CWR 344	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-010-129 Page 1 of 1

Collector	F. M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, OCTOBER 2012	Logbook No.	HNF-N-506 51 /37	Ice Chest No.	GWS-229-1
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7939 7052 8232
Protocol	RCRA	Priority:	30 Days PRIORITY	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG.
Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M1R2	N	W	10/30/12	1117	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2M1R2	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. Hall		[signature]	OCT 30 2012 1540	SSU #1			OCT 30 2012 1540
SSU #1			10-31-12 1000	MA White		MA White	10-31-12 1000
MA White		MA White	10-31-12 1400	FEDEX			
FedEx				Steven Claxton		Steven Claxton	11-1-12 0920

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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CH2MHill Plateau Remediation Company SL1324	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W13-010-130 Page 1 of 1

Collector	F. M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, OCTOBER 2012	Logbook No.	HNF-N-506 51/37	Ice Chest No.	GWS-299-1
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7939 70528232
Protocol	RCRA	Priority:	30 Days PRIORITY	Offsite Property No.	

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG.
Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M1R8	N	W	10/30/12	1030	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2M1R8	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. Hall			OCT 30 2012 1540	SSU #1			OCT 30 2012 1540
SSU #1			10-31-12 1000	MA White		MA White	10-31-12 1000
MA White		MA White	10-31-12 1400	FEDEX			
FedEx				Steven Clayton		Steven Clayton	11-1-12 0920

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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12/4/2012

Print page | Close

FedEx

Detailed Results

Tracking no.: 793970528232 Select time format: 12H

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Oct 31, 2012	EARTH CITY, MO
Delivery date Nov 1, 2012 9:17 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	53.0 lbs/24.0 kg	Reference	GWS-229-1

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Nov 1, 2012 9:17 AM	Delivered	EARTH CITY, MO	
Nov 1, 2012 7:36 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Nov 1, 2012 7:29 AM	At local FedEx facility	EARTH CITY, MO	
Nov 1, 2012 5:30 AM	At destination sort facility	BERKELEY, MO	
Nov 1, 2012 4:39 AM	Departed FedEx location	MEMPHIS, TN	
Nov 1, 2012 12:41 AM	Arrived at FedEx location	MEMPHIS, TN	
Oct 31, 2012 5:10 PM	Left FedEx origin facility	PASCO, WA	
Oct 31, 2012 3:17 PM	Picked up	PASCO, WA	
Oct 31, 2012 1:22 PM	Shipment information sent to FedEx		

TestAmerica
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Lot #(s): 160-838

CUR Form #: 3 4 4

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No:

COC/RFA No: W13-010-129,-130

Initiated By: SC Date: 11-1-12 Time: 0920

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*

1. 7939 7052 8232
2.
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 3
2.
3.
4.
5.
6.
7.
8.
9.
10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: Jayna Awalt Date: 11-2-12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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CH2MHill Plateau Remediation Company SL1324	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S13-010-739 Page 1 of 1

Collector	F. M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, OCTOBER 2012	Logbook No.	HNF-N-506 48/86	Ice Chest No.	GWS-236
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7939 8324 5178
Protocol	SURV	Priority: 30 Days	PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2MDJ9	N	W	11/1/12	0930	1x20-mL P	Activity Scan	6 Months	None
B2MDJ9	N	W	↓	↓	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2MDJ9	N	W			2x1-L G/P	C14_LSC: C-14 (1)	6 Months	None
B2MDJ9	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. Hall			NOV 0 1 2012 1021	B.E. Briggs CHPRC			NOV 0 1 2012 1021
B.E. Briggs CHPRC			NOV 0 1 2012 1400	FEDEX			
FedEx				Steven Claxton			11-1-12 0925

Matrix *

S	= Soil	DS	= Drum Solids		
SE	= Sediment	DL	= Drum Liquids		
SO	= Solid	T	= Tissue		
SL	= Sludge	WI	= Wipe		
W	= Water	L	= Liquid		
O	= Oil	V	= Vegetation		
A	= Air	X	= Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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A-6004-842 (REV 2)

DECEMBER 04, 2012

CH2MHill Plateau Remediation Company

SL1324

CUR 347

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S13-010-731

Collector	F. M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, OCTOBER 2012	Logbook No.	HNF-N-506 48/86	Ice Chest No.	GWS-236
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7939 8324 5178
Protocol	SURV	Priority:	30 Days PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2MDJ1	N	W	11/1/12	1208	1x20-mL P	Activity Scan	6 Months	None
B2MDJ1	N	W	↓	↓	1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2MDJ1	N	W	↓	↓	1x250-mL G/P	9012_CYANIDE: Cyanide (1)	14 Days	NaOH to pH >=12/Cool~4C
B2MDJ1	N	W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. Hall		[signature]	NOV 0 1 2012 1400	FEDEX		bb	11·1·12 ~~NOV 0 1 2012~~
Relinquished By	Fed Ex		Date/Time	Received By	Steven Claxton	Steven Claxton	Date/Time 11-2-12 0925
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil		DS	= Drum Solids	
SE	= Sediment		DL	= Drum Liquids	
SO	= Solid		T	= Tissue	
SL	= Sludge		WI	= Wipe	
W	= Water		L	= Liquid	
O	= Oil		V	= Vegetation	
A	= Air		X	= Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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DECEMBER 04, 2012

1 2 3 4 5 6 7 8 9 10 11 12 13

Print page | Close

FedEx

Detailed Results

Tracking no.: 793983245178 Select time format: 12H

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Nov 1, 2012	EARTH CITY, MO
Delivery date Nov 2, 2012 9:24 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	47.0 lbs/21.3 kg	Reference	GWS-236

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Nov 2, 2012 9:24 AM	Delivered	EARTH CITY, MO	
Nov 2, 2012 7:18 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Nov 2, 2012 7:13 AM	At local FedEx facility	EARTH CITY, MO	
Nov 2, 2012 5:26 AM	At destination sort facility	BERKELEY, MO	
Nov 2, 2012 4:34 AM	Departed FedEx location	MEMPHIS, TN	
Nov 2, 2012 12:32 AM	Arrived at FedEx location	MEMPHIS, TN	
Nov 1, 2012 5:07 PM	Left FedEx origin facility	PASCO, WA	
Nov 1, 2012 4:01 PM	Picked up	PASCO, WA	
Nov 1, 2012 4:15 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 3 4 7

Lot #(s): 160-846 160-847

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No:

COC/RFA No: S13-010-731,-739, X13-002-003

Initiated By: SC Date: 11-2-12 Time: 0925

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: Multiple Packages: Y N

Shipping # (s):*

1. 7939 8324 5178
2.
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 4
2.
3.
4.
5.
6.
7.
8.
9.
10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; Rad tests- Liquid or Solids; Perchlorate

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX, Oil & Grease and soils.

Notes:

Corrective Action:

☐ Client Contact Name: Informed by:

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: If released, notify:

Project Management Review: Jayna Awalt Date: 11-5-12

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-826-1
SDG Number: SL1324

Login Number: 826
List Number: 1
Creator: Claxton, Steven

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-826-1
SDG Number: SL1324

Login Number: 827
List Number: 1
Creator: Claxton, Steven

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-826-1
SDG Number: SL1324

Login Number: 832
List Number: 1
Creator: Claxton, Steven

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-826-1
SDG Number: SL1324

Login Number: 838
List Number: 1
Creator: Claxton, Steven

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-826-1
SDG Number: SL1324

Login Number: 847
List Number: 1
Creator: Claxton, Steven

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received 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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Analyte was found in the associated method blank as well as in the sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
O	LCS, LCSD: Recovery exceeds upper or lower control limits.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL
C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.
N	Recovery exceeds upper or lower control limits

General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
U	Analyzed for but not detected.

Rad

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-826-1
SDG: SL1324

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
8041A	Phenols (GC)	SW846	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
9012B	Cyanide, Total andor Amenable	SW846	TAL SL
9020B	Organic Halides, Total (TOX)	SW846	TAL SL
9060	Organic Carbon, Total (TOC)	SW846	TAL SL
C-01-1	Carbon-14 (EERF C-01-1)	EERF	TAL SL

Protocol References:

EERF = EERF

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-826-1
SDG: SL1324

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-826-1	B2MPL7	Water	10/29/12 10:14	10/30/12 09:15
160-826-2	B2MPL3	Water	10/29/12 10:14	10/30/12 09:15
160-826-3	B2MPT0	Water	10/29/12 12:16	10/30/12 09:15
160-826-4	B2MPT4	Water	10/29/12 12:16	10/30/12 09:15
160-827-1	B2M1C9	Water	10/26/12 14:33	10/30/12 09:15
160-832-1	B2M1N1	Water	10/29/12 12:32	10/31/12 09:25
160-832-2	B2M1N0	Water	10/29/12 08:15	10/31/12 09:25
160-838-1	B2M1R2	Water	10/30/12 11:17	11/01/12 09:20
160-838-2	B2M1R8	Water	10/30/12 10:30	11/01/12 09:20
160-847-1	B2MDJ1	Water	11/01/12 12:08	11/02/12 09:25
160-847-2	B2MDJ9	Water	11/01/12 09:30	11/02/12 09:25

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-826-1
SDG: SL1324

Client Sample ID: B2MPL7 — Lab Sample ID: 160-826-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	40.5	B	200	4.0	ug/L	1		6010C	Dissolved
Calcium	49500	D	25000	530	ug/L	5		6010C	Dissolved
Chromium	165		10.0	3.1	ug/L	1		6010C	Dissolved
Magnesium	11700		5000	132	ug/L	1		6010C	Dissolved
Potassium	6220		5000	1650	ug/L	1		6010C	Dissolved
Sodium	17800		5000	324	ug/L	1		6010C	Dissolved
Strontium	278	D	250	2.7	ug/L	5		6010C	Dissolved
Vanadium	9.1	B	50.0	4.1	ug/L	1		6010C	Dissolved
Zinc	6.9	B	20.0	5.2	ug/L	1		6010C	Dissolved

Client Sample ID: B2MPL3 — Lab Sample ID: 160-826-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.75	J B	2.0	0.34	ug/L	1		8260C	Total/NA
Chloroform	0.32	J	1.0	0.10	ug/L	1		8260C	Total/NA
Methylene Chloride	2.0	B	1.0	0.27	ug/L	1		8260C	Total/NA
Barium	40.0	B	200	4.0	ug/L	1		6010C	Total/NA
Calcium	51500	D	25000	530	ug/L	5		6010C	Total/NA
Chromium	155		10.0	3.1	ug/L	1		6010C	Total/NA
Iron	57.6	B	100	28.2	ug/L	1		6010C	Total/NA
Magnesium	11400		5000	132	ug/L	1		6010C	Total/NA
Potassium	6130		5000	1650	ug/L	1		6010C	Total/NA
Sodium	17600		5000	324	ug/L	1		6010C	Total/NA
Strontium	290	D	250	2.7	ug/L	5		6010C	Total/NA
Vanadium	7.5	B	50.0	4.1	ug/L	1		6010C	Total/NA
Zinc	10.2	B	20.0	5.2	ug/L	1		6010C	Total/NA
Nitrite as N	0.012	B N	0.020	0.0030	mg/L	1		300.0	Total/NA
Fluoride	0.24		0.10	0.010	mg/L	1		300.0	Total/NA
Nitrate as N - DL	9.4	D	0.20	0.040	mg/L	10		300.0	Total/NA
Chloride - DL	5.7	D	2.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	38.4	D	5.0	0.50	mg/L	10		300.0	Total/NA

Client Sample ID: B2MPT0 — Lab Sample ID: 160-826-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	3.9	B C	5.0	1.7	ug/L	1		6020A	Total/NA
Arsenic	3.4	B	10.0	1.2	ug/L	1		6020A	Total/NA
Barium	29.5		2.0	0.22	ug/L	1		6020A	Total/NA
Boron	35.7	B N	50.0	10.0	ug/L	1		6020A	Total/NA
Chromium	8.0	B	10.0	3.3	ug/L	1		6020A	Total/NA
Copper	0.55	B	1.0	0.45	ug/L	1		6020A	Total/NA
Lead	0.29	B	3.0	0.17	ug/L	1		6020A	Total/NA
Molybdenum	3.2	B	5.0	1.0	ug/L	1		6020A	Total/NA
Silver	0.75	B C	2.0	0.050	ug/L	1		6020A	Total/NA
Thallium	0.70	B	2.0	0.55	ug/L	1		6020A	Total/NA
Tin	1.5	B	2.0	1.0	ug/L	1		6020A	Total/NA
Fluoride	0.14		0.10	0.010	mg/L	1		300.0	Total/NA
Nitrate as N - DL	2.9	D	0.20	0.040	mg/L	10		300.0	Total/NA
Chloride - DL	13.7	D	2.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	37.2	D	5.0	0.50	mg/L	10		300.0	Total/NA

Client Sample ID: B2MPT4 — Lab Sample ID: 160-826-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.6	B C	5.0	1.7	ug/L	1		6020A	Dissolved
Arsenic	2.6	B	10.0	1.2	ug/L	1		6020A	Dissolved
Barium	27.2		2.0	0.22	ug/L	1		6020A	Dissolved
Boron	46.9	B N	50.0	10.0	ug/L	1		6020A	Dissolved
Chromium	7.9	B	10.0	3.3	ug/L	1		6020A	Dissolved
Copper	0.64	B	1.0	0.45	ug/L	1		6020A	Dissolved
Lead	0.42	B	3.0	0.17	ug/L	1		6020A	Dissolved
Molybdenum	2.2	B	5.0	1.0	ug/L	1		6020A	Dissolved
Silver	0.60	B C	2.0	0.050	ug/L	1		6020A	Dissolved
Thallium	0.74	B	2.0	0.55	ug/L	1		6020A	Dissolved

Client Sample ID: B2M1C9 — Lab Sample ID: 160-827-1

No Detections

Client Sample ID: B2M1N1 — Lab Sample ID: 160-832-1

No Detections

Client Sample ID: B2M1N0 — Lab Sample ID: 160-832-2

No Detections

Client Sample ID: B2M1R2 — Lab Sample ID: 160-838-1

No Detections

Client Sample ID: B2M1R8 — Lab Sample ID: 160-838-2

No Detections

Client Sample ID: B2MDJ1 — Lab Sample ID: 160-847-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.38		0.020	0.0040	mg/L	1		300.0	Total/NA
Nitrite as N	0.0099	B	0.020	0.0030	mg/L	1		300.0	Total/NA
Fluoride	0.30		0.10	0.010	mg/L	1		300.0	Total/NA
Chloride	3.7		0.20	0.020	mg/L	1		300.0	Total/NA
Sulfate	13.4		0.50	0.050	mg/L	1		300.0	Total/NA
Cyanide, Total	2.7	B	5.0	1.5	ug/L	1		9012B	Total/NA
Total Organic Carbon	0.78	B	1.0	0.27	mg/L	1		9060	Total/NA

Client Sample ID: B2MDJ9 — Lab Sample ID: 160-847-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J B	2.0	0.34	ug/L	1		8260C	Total/NA
Methylene Chloride	0.85	J	1.0	0.27	ug/L	1		8260C	Total/NA
Halogens, Total Organic	3.5	B	5.0	1.8	ug/L	1		9020B	Total/NA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: B2MPL3 — **Lab Sample ID: 160-826-2**
Date Collected: 10/29/12 10:14 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.75**	**J B**	2.0	0.34	ug/L			11/01/12 15:37	1
Benzene	0.060	U	1.0	0.060	ug/L			11/01/12 15:37	1
1-Butanol	12	U	40	12	ug/L			11/01/12 15:37	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			11/01/12 15:37	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			11/01/12 15:37	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			11/01/12 15:37	1
Chloroform	**0.32**	**J**	1.0	0.10	ug/L			11/01/12 15:37	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			11/01/12 15:37	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			11/01/12 15:37	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			11/01/12 15:37	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			11/01/12 15:37	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			11/01/12 15:37	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			11/01/12 15:37	1
1,4-Dioxane	7.6	U	80	7.6	ug/L			11/01/12 15:37	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			11/01/12 15:37	1
Methylene Chloride	**2.0**	**B**	1.0	0.27	ug/L			11/01/12 15:37	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			11/01/12 15:37	1
Ethyl Cyanide	1.4	U	5.0	1.4	ug/L			11/01/12 15:37	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			11/01/12 15:37	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			11/01/12 15:37	1
Toluene	0.070	U	1.0	0.070	ug/L			11/01/12 15:37	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			11/01/12 15:37	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			11/01/12 15:37	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			11/01/12 15:37	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			11/01/12 15:37	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			11/01/12 15:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Ethyl ether	*0.33*	*J*	*ug/L*		*5.03*	*60-29-7*		*11/01/12 15:37*	*1*
Ethyl acetate	*0.20*	*J*	*ug/L*		*8.02*	*141-78-6*		*11/01/12 15:37*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*11/01/12 15:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*84 - 118*		*11/01/12 15:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*79 - 125*		*11/01/12 15:37*	*1*
Toluene-d8 (Surr)	*100*		*85 - 121*		*11/01/12 15:37*	*1*
Dibromofluoromethane (Surr)	*105*		*85 - 120*		*11/01/12 15:37*	*1*

Client Sample ID: B2MDJ9 — **Lab Sample ID: 160-847-2**
Date Collected: 11/01/12 09:30 — **Matrix: Water**
Date Received: 11/02/12 09:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1.0**	**J B**	2.0	0.34	ug/L			11/08/12 14:34	1
Benzene	0.060	U	1.0	0.060	ug/L			11/08/12 14:34	1
1-Butanol	12	U	40	12	ug/L			11/08/12 14:34	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			11/08/12 14:34	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			11/08/12 14:34	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			11/08/12 14:34	1
Chloroform	0.10	U	1.0	0.10	ug/L			11/08/12 14:34	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			11/08/12 14:34	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B2MDJ9 — **Lab Sample ID: 160-847-2**
Date Collected: 11/01/12 09:30 — **Matrix: Water**
Date Received: 11/02/12 09:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			11/08/12 14:34	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			11/08/12 14:34	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			11/08/12 14:34	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			11/08/12 14:34	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			11/08/12 14:34	1
1,4-Dioxane	7.6	U	80	7.6	ug/L			11/08/12 14:34	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			11/08/12 14:34	1
Methylene Chloride	**0.85**	**J**	1.0	0.27	ug/L			11/08/12 14:34	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			11/08/12 14:34	1
Ethyl Cyanide	1.4	U	5.0	1.4	ug/L			11/08/12 14:34	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			11/08/12 14:34	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			11/08/12 14:34	1
Toluene	0.070	U	1.0	0.070	ug/L			11/08/12 14:34	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			11/08/12 14:34	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			11/08/12 14:34	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			11/08/12 14:34	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			11/08/12 14:34	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			11/08/12 14:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/08/12 14:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*84 - 118*		*11/08/12 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*79 - 125*		*11/08/12 14:34*	*1*
Toluene-d8 (Surr)	*105*		*85 - 121*		*11/08/12 14:34*	*1*
Dibromofluoromethane (Surr)	*102*		*85 - 120*		*11/08/12 14:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B2M1N1 — **Lab Sample ID: 160-832-1**
Date Collected: 10/29/12 12:32 — **Matrix: Water**
Date Received: 10/31/12 09:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.67	U	6.7	0.67	ug/L		11/05/12 11:00	11/08/12 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*48*		*21 - 85*	*11/05/12 11:00*	*11/08/12 21:10*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*46 - 118*	*11/05/12 11:00*	*11/08/12 21:10*	*1*
Nitrobenzene-d5 (Surr)	*85*		*45 - 99*	*11/05/12 11:00*	*11/08/12 21:10*	*1*
Phenol-d5 (Surr)	*33*		*10 - 70*	*11/05/12 11:00*	*11/08/12 21:10*	*1*
Terphenyl-d14 (Surr)	*77*		*53 - 126*	*11/05/12 11:00*	*11/08/12 21:10*	*1*
2-Fluorobiphenyl (Surr)	*73*		*46 - 99*	*11/05/12 11:00*	*11/08/12 21:10*	*1*

Client Sample ID: B2M1N0 — **Lab Sample ID: 160-832-2**
Date Collected: 10/29/12 08:15 — **Matrix: Water**
Date Received: 10/31/12 09:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.96	U	9.6	0.96	ug/L		11/05/12 11:00	11/08/12 22:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	47		21 - 85	11/05/12 11:00	11/08/12 22:47	1
2,4,6-Tribromophenol (Surr)	85		46 - 118	11/05/12 11:00	11/08/12 22:47	1
Nitrobenzene-d5 (Surr)	87		45 - 99	11/05/12 11:00	11/08/12 22:47	1
Phenol-d5 (Surr)	34		10 - 70	11/05/12 11:00	11/08/12 22:47	1
Terphenyl-d14 (Surr)	78		53 - 126	11/05/12 11:00	11/08/12 22:47	1
2-Fluorobiphenyl (Surr)	75		46 - 99	11/05/12 11:00	11/08/12 22:47	1

Client Sample ID: B2M1R2 — **Lab Sample ID: 160-838-1**
Date Collected: 10/30/12 11:17 — **Matrix: Water**
Date Received: 11/01/12 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.95	U	9.5	0.95	ug/L		11/05/12 11:00	11/08/12 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	49		21 - 85	11/05/12 11:00	11/08/12 23:20	1
2,4,6-Tribromophenol (Surr)	89		46 - 118	11/05/12 11:00	11/08/12 23:20	1
Nitrobenzene-d5 (Surr)	88		45 - 99	11/05/12 11:00	11/08/12 23:20	1
Phenol-d5 (Surr)	34		10 - 70	11/05/12 11:00	11/08/12 23:20	1
Terphenyl-d14 (Surr)	78		53 - 126	11/05/12 11:00	11/08/12 23:20	1
2-Fluorobiphenyl (Surr)	78		46 - 99	11/05/12 11:00	11/08/12 23:20	1

Client Sample ID: B2M1R8 — **Lab Sample ID: 160-838-2**
Date Collected: 10/30/12 10:30 — **Matrix: Water**
Date Received: 11/01/12 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.95	U	9.5	0.95	ug/L		11/05/12 11:00	11/08/12 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	46		21 - 85	11/05/12 11:00	11/08/12 23:53	1
2,4,6-Tribromophenol (Surr)	86		46 - 118	11/05/12 11:00	11/08/12 23:53	1
Nitrobenzene-d5 (Surr)	79		45 - 99	11/05/12 11:00	11/08/12 23:53	1
Phenol-d5 (Surr)	32		10 - 70	11/05/12 11:00	11/08/12 23:53	1
Terphenyl-d14 (Surr)	80		53 - 126	11/05/12 11:00	11/08/12 23:53	1
2-Fluorobiphenyl (Surr)	68		46 - 99	11/05/12 11:00	11/08/12 23:53	1

Method: 8041A - Phenols (GC)

Client Sample ID: B2M1C9 — **Lab Sample ID: 160-827-1**
Date Collected: 10/26/12 14:33 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	2.1	U	4.7	2.1	ug/L		11/01/12 13:55	11/30/12 15:06	1
2,4,5-Trichlorophenol	1.3	U	4.7	1.3	ug/L		11/01/12 13:55	11/30/12 15:06	1
2,4,6-Trichlorophenol	1.2	U	4.7	1.2	ug/L		11/01/12 13:55	11/30/12 15:06	1
2,4-Dichlorophenol	1.4	U	4.7	1.4	ug/L		11/01/12 13:55	11/30/12 15:06	1
2,4-Dimethylphenol	1.3	U	4.7	1.3	ug/L		11/01/12 13:55	11/30/12 15:06	1
2,4-Dinitrophenol	1.7	U	4.7	1.7	ug/L		11/01/12 13:55	11/30/12 15:06	1
2,6-Dichlorophenol	1.2	U	4.7	1.2	ug/L		11/01/12 13:55	11/30/12 15:06	1
2-Chlorophenol	1.6	U	4.7	1.6	ug/L		11/01/12 13:55	11/30/12 15:06	1
2-Methylphenol	1.4	U	4.7	1.4	ug/L		11/01/12 13:55	11/30/12 15:06	1
2-Nitrophenol	0.68	U	4.7	0.68	ug/L		11/01/12 13:55	11/30/12 15:06	1
3 & 4 Methylphenol	1.5	U	4.7	1.5	ug/L		11/01/12 13:55	11/30/12 15:06	1
4,6-Dinitro-2-methylphenol	1.6	U	4.7	1.6	ug/L		11/01/12 13:55	11/30/12 15:06	1

Method: 8041A - Phenols (GC) (Continued)

Client Sample ID: B2M1C9 — **Lab Sample ID: 160-827-1**
Date Collected: 10/26/12 14:33 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	1.3	U	4.7	1.3	ug/L		11/01/12 13:55	11/30/12 15:06	1
4-Nitrophenol	1.8	U	4.7	1.8	ug/L		11/01/12 13:55	11/30/12 15:06	1
Dinoseb	1.6	U	4.7	1.6	ug/L		11/01/12 13:55	11/30/12 15:06	1
Pentachlorophenol	1.4	U	4.7	1.4	ug/L		11/01/12 13:55	11/30/12 15:06	1
Phenol	1.7	U	4.7	1.7	ug/L		11/01/12 13:55	11/30/12 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*106*		*54 - 139*	*11/01/12 13:55*	*11/30/12 15:06*	*1*
2-Fluorophenol	*84*		*34 - 121*	*11/01/12 13:55*	*11/30/12 15:06*	*1*

Method: 6010C - Metals (ICP)

Client Sample ID: B2MPL3 — **Lab Sample ID: 160-826-2**
Date Collected: 10/29/12 10:14 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0	U	60.0	4.0	ug/L		11/20/12 15:09	11/27/12 14:31	1
Barium	**40.0**	**B**	200	4.0	ug/L		11/20/12 15:09	11/27/12 14:31	1
Beryllium	0.61	U	5.0	0.61	ug/L		11/20/12 15:09	11/27/12 14:31	1
Cadmium	0.91	U	5.0	0.91	ug/L		11/20/12 15:09	11/27/12 14:31	1
Calcium	**51500**	**D**	25000	530	ug/L		11/20/12 15:09	11/27/12 14:07	5
Chromium	**155**		10.0	3.1	ug/L		11/20/12 15:09	11/27/12 14:31	1
Cobalt	4.0	U	50.0	4.0	ug/L		11/20/12 15:09	11/27/12 14:31	1
Copper	4.6	U	25.0	4.6	ug/L		11/20/12 15:09	11/27/12 14:31	1
Iron	**57.6**	**B**	100	28.2	ug/L		11/20/12 15:09	11/27/12 14:31	1
Magnesium	**11400**		5000	132	ug/L		11/20/12 15:09	11/27/12 14:31	1
Manganese	3.3	U	15.0	3.3	ug/L		11/20/12 15:09	11/27/12 14:31	1
Nickel	13.3	U	40.0	13.3	ug/L		11/20/12 15:09	11/27/12 14:31	1
Potassium	**6130**		5000	1650	ug/L		11/20/12 15:09	11/27/12 14:31	1
Silver	6.0	U	10.0	6.0	ug/L		11/20/12 15:09	11/27/12 14:31	1
Sodium	**17600**		5000	324	ug/L		11/20/12 15:09	11/27/12 14:31	1
Strontium	**290**	**D**	250	2.7	ug/L		11/20/12 15:09	11/27/12 14:07	5
Vanadium	**7.5**	**B**	50.0	4.1	ug/L		11/20/12 15:09	11/27/12 14:31	1
Zinc	**10.2**	**B**	20.0	5.2	ug/L		11/20/12 15:09	11/27/12 14:31	1

Method: 6010C - Metals (ICP) - Dissolved

Client Sample ID: B2MPL7 — **Lab Sample ID: 160-826-1**
Date Collected: 10/29/12 10:14 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0	U	60.0	4.0	ug/L		11/20/12 15:09	11/27/12 14:11	1
Barium	**40.5**	**B**	200	4.0	ug/L		11/20/12 15:09	11/27/12 14:11	1
Beryllium	0.61	U	5.0	0.61	ug/L		11/20/12 15:09	11/27/12 14:11	1
Cadmium	0.91	U	5.0	0.91	ug/L		11/20/12 15:09	11/27/12 14:11	1
Calcium	**49500**	**D**	25000	530	ug/L		11/20/12 15:09	11/27/12 13:53	5
Chromium	**165**		10.0	3.1	ug/L		11/20/12 15:09	11/27/12 14:11	1
Cobalt	4.0	U	50.0	4.0	ug/L		11/20/12 15:09	11/27/12 14:11	1
Copper	4.6	U	25.0	4.6	ug/L		11/20/12 15:09	11/27/12 14:11	1
Iron	28.2	U	100	28.2	ug/L		11/20/12 15:09	11/27/12 14:11	1

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Client Sample ID: B2MPL7 — **Lab Sample ID: 160-826-1**
Date Collected: 10/29/12 10:14 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**11700**		5000	132	ug/L		11/20/12 15:09	11/27/12 14:11	1
Manganese	3.3	U	15.0	3.3	ug/L		11/20/12 15:09	11/27/12 14:11	1
Nickel	13.3	U	40.0	13.3	ug/L		11/20/12 15:09	11/27/12 14:11	1
Potassium	**6220**		5000	1650	ug/L		11/20/12 15:09	11/27/12 14:11	1
Silver	6.0	U	10.0	6.0	ug/L		11/20/12 15:09	11/27/12 14:11	1
Sodium	**17800**		5000	324	ug/L		11/20/12 15:09	11/27/12 14:11	1
Strontium	**278**	**D**	250	2.7	ug/L		11/20/12 15:09	11/27/12 13:53	5
Vanadium	**9.1**	**B**	50.0	4.1	ug/L		11/20/12 15:09	11/27/12 14:11	1
Zinc	**6.9**	**B**	20.0	5.2	ug/L		11/20/12 15:09	11/27/12 14:11	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B2MPT0 — **Lab Sample ID: 160-826-3**
Date Collected: 10/29/12 12:16 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		11/20/12 15:10	11/22/12 06:40	1
Antimony	**3.9**	**B C**	5.0	1.7	ug/L		11/20/12 15:10	11/22/12 06:40	1
Arsenic	**3.4**	**B**	10.0	1.2	ug/L		11/20/12 15:10	11/22/12 06:40	1
Barium	**29.5**		2.0	0.22	ug/L		11/20/12 15:10	11/22/12 06:40	1
Beryllium	0.35	U	0.50	0.35	ug/L		11/20/12 15:10	11/22/12 06:40	1
Boron	**35.7**	**B N**	50.0	10.0	ug/L		11/20/12 15:10	11/22/12 06:40	1
Cadmium	0.10	U	0.50	0.10	ug/L		11/20/12 15:10	11/22/12 06:40	1
Chromium	**8.0**	**B**	10.0	3.3	ug/L		11/20/12 15:10	11/22/12 06:40	1
Cobalt	0.22	U	2.0	0.22	ug/L		11/20/12 15:10	11/22/12 06:40	1
Copper	**0.55**	**B**	1.0	0.45	ug/L		11/20/12 15:10	11/22/12 06:40	1
Lead	**0.29**	**B**	3.0	0.17	ug/L		11/20/12 15:10	11/22/12 06:40	1
Molybdenum	**3.2**	**B**	5.0	1.0	ug/L		11/20/12 15:10	11/22/12 06:40	1
Selenium	1.6	U	5.0	1.6	ug/L		11/20/12 15:10	11/22/12 06:40	1
Silver	**0.75**	**B C**	2.0	0.050	ug/L		11/20/12 15:10	11/22/12 06:40	1
Thallium	**0.70**	**B**	2.0	0.55	ug/L		11/20/12 15:10	11/22/12 06:40	1
Tin	**1.5**	**B**	2.0	1.0	ug/L		11/20/12 15:10	11/22/12 06:40	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Client Sample ID: B2MPT4 — **Lab Sample ID: 160-826-4**
Date Collected: 10/29/12 12:16 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		11/20/12 15:10	11/22/12 07:07	1
Antimony	**2.6**	**B C**	5.0	1.7	ug/L		11/20/12 15:10	11/22/12 07:07	1
Arsenic	**2.6**	**B**	10.0	1.2	ug/L		11/20/12 15:10	11/22/12 07:07	1
Barium	**27.2**		2.0	0.22	ug/L		11/20/12 15:10	11/22/12 07:07	1
Beryllium	0.35	U	0.50	0.35	ug/L		11/20/12 15:10	11/22/12 07:07	1
Boron	**46.9**	**B N**	50.0	10.0	ug/L		11/20/12 15:10	11/22/12 07:07	1
Cadmium	0.10	U	0.50	0.10	ug/L		11/20/12 15:10	11/22/12 07:07	1
Chromium	**7.9**	**B**	10.0	3.3	ug/L		11/20/12 15:10	11/22/12 07:07	1
Cobalt	0.22	U	2.0	0.22	ug/L		11/20/12 15:10	11/22/12 07:07	1
Copper	**0.64**	**B**	1.0	0.45	ug/L		11/20/12 15:10	11/22/12 07:07	1
Lead	**0.42**	**B**	3.0	0.17	ug/L		11/20/12 15:10	11/22/12 07:07	1

Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: B2MPT4 — **Lab Sample ID: 160-826-4**
Date Collected: 10/29/12 12:16 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	2.2	B	5.0	1.0	ug/L		11/20/12 15:10	11/22/12 07:07	1
Selenium	1.6	U	5.0	1.6	ug/L		11/20/12 15:10	11/22/12 07:07	1
Silver	0.60	B C	2.0	0.050	ug/L		11/20/12 15:10	11/22/12 07:07	1
Thallium	0.74	B	2.0	0.55	ug/L		11/20/12 15:10	11/22/12 07:07	1
Tin	1.0	U	2.0	1.0	ug/L		11/20/12 15:10	11/22/12 07:07	1

General Chemistry

Client Sample ID: B2MPL3 — **Lab Sample ID: 160-826-2**
Date Collected: 10/29/12 10:14 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.012	B N	0.020	0.0030	mg/L			10/31/12 04:27	1
Fluoride	0.24		0.10	0.010	mg/L			10/31/12 04:27	1

Client Sample ID: B2MPT0 — **Lab Sample ID: 160-826-3**
Date Collected: 10/29/12 12:16 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0030	U N	0.020	0.0030	mg/L			10/30/12 23:48	1
Fluoride	0.14		0.10	0.010	mg/L			10/30/12 23:48	1

Client Sample ID: B2MDJ1 — **Lab Sample ID: 160-847-1**
Date Collected: 11/01/12 12:08 — **Matrix: Water**
Date Received: 11/02/12 09:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.38		0.020	0.0040	mg/L			11/02/12 19:59	1
Nitrite as N	0.0099	B	0.020	0.0030	mg/L			11/02/12 19:59	1
Fluoride	0.30		0.10	0.010	mg/L			11/02/12 19:59	1
Chloride	3.7		0.20	0.020	mg/L			11/02/12 19:59	1
Sulfate	13.4		0.50	0.050	mg/L			11/02/12 19:59	1
Cyanide, Total	2.7	B	5.0	1.5	ug/L		11/14/12 18:55	11/15/12 11:55	1
Total Organic Carbon	0.78	B	1.0	0.27	mg/L			11/28/12 17:31	1

Client Sample ID: B2MDJ9 — **Lab Sample ID: 160-847-2**
Date Collected: 11/01/12 09:30 — **Matrix: Water**
Date Received: 11/02/12 09:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	3.5	B	5.0	1.8	ug/L			11/26/12 17:42	1

General Chemistry - DL

Client Sample ID: B2MPL3 — **Lab Sample ID: 160-826-2**
Date Collected: 10/29/12 10:14 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	9.4	D	0.20	0.040	mg/L			10/31/12 05:13	10
Chloride	5.7	D	2.0	0.20	mg/L			10/31/12 05:13	10
Sulfate	38.4	D	5.0	0.50	mg/L			10/31/12 05:13	10

General Chemistry - DL

Client Sample ID: B2MPT0 — **Lab Sample ID: 160-826-3**
Date Collected: 10/29/12 12:16 — **Matrix: Water**
Date Received: 10/30/12 09:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.9	D	0.20	0.040	mg/L			10/31/12 00:34	10
Chloride	13.7	D	2.0	0.20	mg/L			10/31/12 00:34	10
Sulfate	37.2	D	5.0	0.50	mg/L			10/31/12 00:34	10

Method: C-01-1 - Carbon-14 (EERF C-01-1)

Client Sample ID: B2MDJ9 — **Lab Sample ID: 160-847-2**
Date Collected: 11/01/12 09:30 — **Matrix: Water**
Date Received: 11/02/12 09:25

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Carbon-14	8.79	U	5.17	5.17	8.79	pCi/L	11/27/12 09:26	11/27/12 20:34	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-15430/2
Matrix: Water
Analysis Batch: 15430

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.378	J	2.0	0.34	ug/L			11/01/12 12:05	1
Benzene	0.060	U	1.0	0.060	ug/L			11/01/12 12:05	1
1-Butanol	12	U	40	12	ug/L			11/01/12 12:05	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			11/01/12 12:05	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			11/01/12 12:05	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			11/01/12 12:05	1
Chloroform	0.10	U	1.0	0.10	ug/L			11/01/12 12:05	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			11/01/12 12:05	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			11/01/12 12:05	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			11/01/12 12:05	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			11/01/12 12:05	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			11/01/12 12:05	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			11/01/12 12:05	1
1,4-Dioxane	7.6	U	80	7.6	ug/L			11/01/12 12:05	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			11/01/12 12:05	1
Methylene Chloride	0.337	J	1.0	0.27	ug/L			11/01/12 12:05	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			11/01/12 12:05	1
Ethyl Cyanide	1.4	U	5.0	1.4	ug/L			11/01/12 12:05	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			11/01/12 12:05	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			11/01/12 12:05	1
Toluene	0.070	U	1.0	0.070	ug/L			11/01/12 12:05	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			11/01/12 12:05	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			11/01/12 12:05	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			11/01/12 12:05	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			11/01/12 12:05	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			11/01/12 12:05	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/01/12 12:05*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*84 - 118*		*11/01/12 12:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*79 - 125*		*11/01/12 12:05*	*1*
Toluene-d8 (Surr)	*99*		*85 - 121*		*11/01/12 12:05*	*1*
Dibromofluoromethane (Surr)	*97*		*85 - 120*		*11/01/12 12:05*	*1*

Lab Sample ID: LCS 160-15430/4
Matrix: Water
Analysis Batch: 15430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	9.24		ug/L		92	44 - 140
Benzene	10.0	9.65		ug/L		97	85 - 115
1-Butanol	100	77.9		ug/L		78	51 - 136
2-Butanone (MEK)	10.0	10.3		ug/L		103	67 - 127
Carbon disulfide	10.0	8.98		ug/L		90	79 - 131
Carbon tetrachloride	10.0	8.73		ug/L		87	85 - 121

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-15430/4
Matrix: Water
Analysis Batch: 15430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	10.0	9.88		ug/L		99	85 - 115
1,4-Dichlorobenzene	10.0	9.62		ug/L		96	85 - 115
1,1-Dichloroethane	10.0	9.50		ug/L		95	85 - 115
1,2-Dichloroethane	10.0	10.2		ug/L		102	80 - 115
cis-1,2-Dichloroethylene	10.0	9.89		ug/L		99	85 - 115
trans-1,2-Dichloroethylene	10.0	9.24		ug/L		92	85 - 115
1,1-Dichloroethene	10.0	8.72		ug/L		87	83 - 118
1,4-Dioxane	200	197		ug/L		98	40 - 140
Ethylbenzene	10.0	8.98		ug/L		90	85 - 116
Methylene Chloride	10.0	9.94		ug/L		99	81 - 115
4-Methyl-2-pentanone (MIBK)	10.0	10.4		ug/L		104	69 - 126
Ethyl Cyanide	50.0	51.7		ug/L		103	59 - 129
Tetrachloroethene	10.0	8.75		ug/L		88	85 - 120
Tetrahydrofuran	50.0	48.5		ug/L		97	61 - 131
Toluene	10.0	9.04		ug/L		90	85 - 120
1,1,1-Trichloroethane	10.0	8.87		ug/L		89	85 - 116
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	81 - 115
Trichloroethene	10.0	9.38		ug/L		94	85 - 115
Vinyl chloride	10.0	9.01		ug/L		90	65 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*84 - 118*
1,2-Dichloroethane-d4 (Surr)	*102*		*79 - 125*
Toluene-d8 (Surr)	*99*		*85 - 121*
Dibromofluoromethane (Surr)	*106*		*85 - 120*

Lab Sample ID: LCSD 160-15430/5
Matrix: Water
Analysis Batch: 15430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10.0	9.65		ug/L		97	44 - 140	4	20
Benzene	10.0	10.0		ug/L		100	85 - 115	4	20
1-Butanol	100	82.9		ug/L		83	51 - 136	6	20
2-Butanone (MEK)	10.0	9.76		ug/L		98	67 - 127	6	20
Carbon disulfide	10.0	9.53		ug/L		95	79 - 131	6	20
Carbon tetrachloride	10.0	9.36		ug/L		94	85 - 121	7	20
Chloroform	10.0	9.61		ug/L		96	85 - 115	3	20
1,4-Dichlorobenzene	10.0	9.68		ug/L		97	85 - 115	1	20
1,1-Dichloroethane	10.0	9.81		ug/L		98	85 - 115	3	20
1,2-Dichloroethane	10.0	10.2		ug/L		102	80 - 115	0	20
cis-1,2-Dichloroethylene	10.0	9.79		ug/L		98	85 - 115	1	20
trans-1,2-Dichloroethylene	10.0	9.57		ug/L		96	85 - 115	4	20
1,1-Dichloroethene	10.0	9.15		ug/L		92	83 - 118	5	20
1,4-Dioxane	200	197		ug/L		98	40 - 140	0	20
Ethylbenzene	10.0	9.35		ug/L		93	85 - 116	4	20
Methylene Chloride	10.0	10.3		ug/L		103	81 - 115	3	20
4-Methyl-2-pentanone (MIBK)	10.0	10.1		ug/L		101	69 - 126	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-15430/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15430

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl Cyanide			50.0	50.0		ug/L		100	59 - 129	3	20
Tetrachloroethene			10.0	9.24		ug/L		92	85 - 120	5	20
Tetrahydrofuran			50.0	48.0		ug/L		96	61 - 131	1	20
Toluene			10.0	9.35		ug/L		94	85 - 120	3	20
1,1,1-Trichloroethane			10.0	9.89		ug/L		99	85 - 116	11	20
1,1,2-Trichloroethane			10.0	9.84		ug/L		98	81 - 115	3	20
Trichloroethene			10.0	9.79		ug/L		98	85 - 115	4	20
Vinyl chloride			10.0	9.55		ug/L		95	65 - 136	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*84 - 118*
1,2-Dichloroethane-d4 (Surr)	*100*		*79 - 125*
Toluene-d8 (Surr)	*97*		*85 - 121*
Dibromofluoromethane (Surr)	*103*		*85 - 120*

Lab Sample ID: 160-825-D-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15430

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	1.1	J B	10.0	8.52		ug/L		75	27 - 150		
Benzene	0.060	U	10.0	10.3		ug/L		103	85 - 115		
1-Butanol	12	U	100	69.0		ug/L		69	48 - 143		
2-Butanone (MEK)	0.52	U	10.0	9.88		ug/L		99	64 - 135		
Carbon disulfide	0.050	U	10.0	9.94		ug/L		99	76 - 134		
Carbon tetrachloride	0.13	U	10.0	9.98		ug/L		100	80 - 122		
Chloroform	0.10	U	10.0	9.97		ug/L		100	85 - 115		
1,4-Dichlorobenzene	0.12	U	10.0	9.59		ug/L		96	85 - 115		
1,1-Dichloroethane	0.070	U	10.0	10.1		ug/L		101	85 - 115		
1,2-Dichloroethane	0.10	U	10.0	9.94		ug/L		99	81 - 117		
cis-1,2-Dichloroethylene	0.090	U	10.0	9.84		ug/L		98	85 - 116		
trans-1,2-Dichloroethylene	0.080	U	10.0	9.98		ug/L		100	84 - 115		
1,1-Dichloroethene	0.080	U	10.0	9.62		ug/L		96	80 - 119		
1,4-Dioxane	7.6	U	200	197		ug/L		99	41 - 150		
Ethylbenzene	0.090	U	10.0	9.97		ug/L		100	87 - 116		
Methylene Chloride	2.0	B	10.0	12.3		ug/L		103	80 - 115		
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	9.93		ug/L		99	70 - 127		
Ethyl Cyanide	1.4	U	50.0	50.9		ug/L		102	60 - 134		
Tetrachloroethene	0.18	U	10.0	9.76		ug/L		98	85 - 115		
Tetrahydrofuran	1.1	U	50.0	46.2		ug/L		92	61 - 135		
Toluene	0.071	J	10.0	9.62		ug/L		95	85 - 119		
1,1,1-Trichloroethane	0.070	U	10.0	10.3		ug/L		103	85 - 116		
1,1,2-Trichloroethane	0.15	U	10.0	9.72		ug/L		97	79 - 119		
Trichloroethene	0.25	U	10.0	9.99		ug/L		100	80 - 117		
Vinyl chloride	0.080	U	10.0	9.81		ug/L		98	65 - 136		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-825-D-1 MS
Matrix: Water
Analysis Batch: 15430

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		84 - 118
1,2-Dichloroethane-d4 (Surr)	98		79 - 125
Toluene-d8 (Surr)	98		85 - 121
Dibromofluoromethane (Surr)	102		85 - 120

Lab Sample ID: 160-825-E-1 MSD
Matrix: Water
Analysis Batch: 15430

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	1.1	J B	10.0	9.21		ug/L		81	27 - 150	8	20
Benzene	0.060	U	10.0	10.2		ug/L		102	85 - 115	0	20
1-Butanol	12	U	100	74.8		ug/L		75	48 - 143	8	20
2-Butanone (MEK)	0.52	U	10.0	9.47		ug/L		95	64 - 135	4	20
Carbon disulfide	0.050	U	10.0	9.75		ug/L		97	76 - 134	2	20
Carbon tetrachloride	0.13	U	10.0	9.91		ug/L		99	80 - 122	1	20
Chloroform	0.10	U	10.0	10.2		ug/L		102	85 - 115	2	20
1,4-Dichlorobenzene	0.12	U	10.0	9.87		ug/L		99	85 - 115	3	20
1,1-Dichloroethane	0.070	U	10.0	10.4		ug/L		104	85 - 115	3	20
1,2-Dichloroethane	0.10	U	10.0	10.2		ug/L		102	81 - 117	2	20
cis-1,2-Dichloroethylene	0.090	U	10.0	9.90		ug/L		99	85 - 116	1	20
trans-1,2-Dichloroethylene	0.080	U	10.0	9.75		ug/L		98	84 - 115	2	20
1,1-Dichloroethene	0.080	U	10.0	9.60		ug/L		96	80 - 119	0	20
1,4-Dioxane	7.6	U	200	196		ug/L		98	41 - 150	1	20
Ethylbenzene	0.090	U	10.0	10.0		ug/L		100	87 - 116	1	20
Methylene Chloride	2.0	B	10.0	12.1		ug/L		101	80 - 115	2	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	9.79		ug/L		98	70 - 127	1	20
Ethyl Cyanide	1.4	U	50.0	51.1		ug/L		102	60 - 134	0	20
Tetrachloroethene	0.18	U	10.0	9.82		ug/L		98	85 - 115	1	20
Tetrahydrofuran	1.1	U	50.0	43.2		ug/L		86	61 - 135	7	20
Toluene	0.071	J	10.0	9.75		ug/L		97	85 - 119	1	20
1,1,1-Trichloroethane	0.070	U	10.0	10.1		ug/L		101	85 - 116	1	20
1,1,2-Trichloroethane	0.15	U	10.0	9.85		ug/L		98	79 - 119	1	20
Trichloroethene	0.25	U	10.0	10.0		ug/L		100	80 - 117	0	20
Vinyl chloride	0.080	U	10.0	9.81		ug/L		98	65 - 136	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		84 - 118
1,2-Dichloroethane-d4 (Surr)	98		79 - 125
Toluene-d8 (Surr)	99		85 - 121
Dibromofluoromethane (Surr)	104		85 - 120

Lab Sample ID: MB 160-16445/2
Matrix: Water
Analysis Batch: 16445

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.388	J	2.0	0.34	ug/L			11/08/12 12:35	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-16445/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.060	U	1.0	0.060	ug/L			11/08/12 12:35	1
1-Butanol	12	U	40	12	ug/L			11/08/12 12:35	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			11/08/12 12:35	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			11/08/12 12:35	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			11/08/12 12:35	1
Chloroform	0.10	U	1.0	0.10	ug/L			11/08/12 12:35	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			11/08/12 12:35	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			11/08/12 12:35	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			11/08/12 12:35	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			11/08/12 12:35	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			11/08/12 12:35	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			11/08/12 12:35	1
1,4-Dioxane	7.6	U	80	7.6	ug/L			11/08/12 12:35	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			11/08/12 12:35	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			11/08/12 12:35	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			11/08/12 12:35	1
Ethyl Cyanide	1.4	U	5.0	1.4	ug/L			11/08/12 12:35	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			11/08/12 12:35	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			11/08/12 12:35	1
Toluene	0.070	U	1.0	0.070	ug/L			11/08/12 12:35	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			11/08/12 12:35	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			11/08/12 12:35	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			11/08/12 12:35	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			11/08/12 12:35	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			11/08/12 12:35	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/08/12 12:35*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*84 - 118*		*11/08/12 12:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*79 - 125*		*11/08/12 12:35*	*1*
Toluene-d8 (Surr)	*101*		*85 - 121*		*11/08/12 12:35*	*1*
Dibromofluoromethane (Surr)	*103*		*85 - 120*		*11/08/12 12:35*	*1*

Lab Sample ID: LCS 160-16445/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10.0	9.07		ug/L		91	44 - 140
Benzene	10.0	10.5		ug/L		105	85 - 115
1-Butanol	100	83.3		ug/L		83	51 - 136
2-Butanone (MEK)	10.0	8.60		ug/L		86	67 - 127
Carbon disulfide	10.0	10.8		ug/L		108	79 - 131
Carbon tetrachloride	10.0	10.1		ug/L		101	85 - 121
Chloroform	10.0	10.3		ug/L		103	85 - 115

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-16445/4
Matrix: Water
Analysis Batch: 16445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	85 - 115
1,1-Dichloroethane	10.0	10.2		ug/L		102	85 - 115
1,2-Dichloroethane	10.0	9.86		ug/L		99	80 - 115
cis-1,2-Dichloroethylene	10.0	10.0		ug/L		100	85 - 115
trans-1,2-Dichloroethylene	10.0	10.2		ug/L		102	85 - 115
1,1-Dichloroethene	10.0	10.2		ug/L		102	83 - 118
1,4-Dioxane	200	203		ug/L		102	40 - 140
Ethylbenzene	10.0	10.1		ug/L		101	85 - 116
Methylene Chloride	10.0	9.92		ug/L		99	81 - 115
4-Methyl-2-pentanone (MIBK)	10.0	9.91		ug/L		99	69 - 126
Ethyl Cyanide	50.0	50.3		ug/L		101	59 - 129
Tetrachloroethene	10.0	10.0		ug/L		100	85 - 120
Tetrahydrofuran	50.0	44.0		ug/L		88	61 - 131
Toluene	10.0	9.91		ug/L		99	85 - 120
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	85 - 116
1,1,2-Trichloroethane	10.0	9.95		ug/L		100	81 - 115
Trichloroethene	10.0	10.4		ug/L		104	85 - 115
Vinyl chloride	10.0	9.96		ug/L		100	65 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*84 - 118*
1,2-Dichloroethane-d4 (Surr)	*99*		*79 - 125*
Toluene-d8 (Surr)	*101*		*85 - 121*
Dibromofluoromethane (Surr)	*106*		*85 - 120*

Lab Sample ID: LCSD 160-16445/5
Matrix: Water
Analysis Batch: 16445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	10.0	10.0		ug/L		100	44 - 140	10	20
Benzene	10.0	10.7		ug/L		107	85 - 115	2	20
1-Butanol	100	86.2		ug/L		86	51 - 136	3	20
2-Butanone (MEK)	10.0	10.7		ug/L		107	67 - 127	22	20
Carbon disulfide	10.0	10.9		ug/L		109	79 - 131	1	20
Carbon tetrachloride	10.0	10.4		ug/L		104	85 - 121	3	20
Chloroform	10.0	10.6		ug/L		106	85 - 115	3	20
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	85 - 115	1	20
1,1-Dichloroethane	10.0	10.7		ug/L		107	85 - 115	5	20
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 115	8	20
cis-1,2-Dichloroethylene	10.0	10.4		ug/L		104	85 - 115	4	20
trans-1,2-Dichloroethylene	10.0	10.2		ug/L		102	85 - 115	0	20
1,1-Dichloroethene	10.0	10.3		ug/L		103	83 - 118	1	20
1,4-Dioxane	200	176		ug/L		88	40 - 140	15	20
Ethylbenzene	10.0	10.3		ug/L		103	85 - 116	2	20
Methylene Chloride	10.0	10.6		ug/L		106	81 - 115	7	20
4-Methyl-2-pentanone (MIBK)	10.0	10.5		ug/L		105	69 - 126	6	20
Ethyl Cyanide	50.0	52.3		ug/L		105	59 - 129	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-16445/5
Matrix: Water
Analysis Batch: 16445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	10.0	10.0		ug/L		100	85 - 120	0	20
Tetrahydrofuran	50.0	50.5		ug/L		101	61 - 131	14	20
Toluene	10.0	10.0		ug/L		100	85 - 120	1	20
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	85 - 116	5	20
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	81 - 115	6	20
Trichloroethene	10.0	10.5		ug/L		105	85 - 115	2	20
Vinyl chloride	10.0	10.2		ug/L		102	65 - 136	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*84 - 118*
1,2-Dichloroethane-d4 (Surr)	*104*		*79 - 125*
Toluene-d8 (Surr)	*104*		*85 - 121*
Dibromofluoromethane (Surr)	*111*		*85 - 120*

Lab Sample ID: 160-847-2 MS
Matrix: Water
Analysis Batch: 16445

Client Sample ID: B2MDJ9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	1.0	J B	10.0	10.9		ug/L		99	27 - 150
Benzene	0.060	U	10.0	10.6		ug/L		106	85 - 115
1-Butanol	12	U	100	97.4		ug/L		97	48 - 143
2-Butanone (MEK)	0.52	U	10.0	10.9		ug/L		109	64 - 135
Carbon disulfide	0.050	U	10.0	10.6		ug/L		106	76 - 134
Carbon tetrachloride	0.13	U	10.0	9.71		ug/L		97	80 - 122
Chloroform	0.10	U	10.0	10.6		ug/L		106	85 - 115
1,4-Dichlorobenzene	0.12	U	10.0	10.2		ug/L		102	85 - 115
1,1-Dichloroethane	0.070	U	10.0	10.3		ug/L		103	85 - 115
1,2-Dichloroethane	0.10	U	10.0	11.2		ug/L		112	81 - 117
cis-1,2-Dichloroethylene	0.090	U	10.0	10.4		ug/L		104	85 - 116
trans-1,2-Dichloroethylene	0.080	U	10.0	9.98		ug/L		100	84 - 115
1,1-Dichloroethene	0.080	U	10.0	9.75		ug/L		97	80 - 119
1,4-Dioxane	7.6	U	200	213		ug/L		106	41 - 150
Ethylbenzene	0.090	U	10.0	9.66		ug/L		97	87 - 116
Methylene Chloride	0.85	J	10.0	10.9		ug/L		101	80 - 115
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	11.0		ug/L		110	70 - 127
Ethyl Cyanide	1.4	U	50.0	57.8		ug/L		116	60 - 134
Tetrachloroethene	0.18	U	10.0	9.20		ug/L		92	85 - 115
Tetrahydrofuran	1.1	U	50.0	52.6		ug/L		105	61 - 135
Toluene	0.070	U	10.0	9.70		ug/L		97	85 - 119
1,1,1-Trichloroethane	0.070	U	10.0	9.88		ug/L		99	85 - 116
1,1,2-Trichloroethane	0.15	U	10.0	10.5		ug/L		105	79 - 119
Trichloroethene	0.25	U	10.0	10.0		ug/L		100	80 - 117
Vinyl chloride	0.080	U	10.0	9.68		ug/L		97	65 - 136

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*84 - 118*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-847-2 MS
Matrix: Water
Analysis Batch: 16445

Client Sample ID: B2MDJ9
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		79 - 125
Toluene-d8 (Surr)	103		85 - 121
Dibromofluoromethane (Surr)	113		85 - 120

Lab Sample ID: 160-847-2 MSD
Matrix: Water
Analysis Batch: 16445

Client Sample ID: B2MDJ9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	1.0	J B	10.0	12.2		ug/L		112	27 - 150	11	20
Benzene	0.060	U	10.0	10.2		ug/L		102	85 - 115	3	20
1-Butanol	12	U	100	96.0		ug/L		96	48 - 143	2	20
2-Butanone (MEK)	0.52	U	10.0	12.0		ug/L		120	64 - 135	10	20
Carbon disulfide	0.050	U	10.0	10.1		ug/L		101	76 - 134	4	20
Carbon tetrachloride	0.13	U	10.0	9.26		ug/L		93	80 - 122	5	20
Chloroform	0.10	U	10.0	10.4		ug/L		104	85 - 115	2	20
1,4-Dichlorobenzene	0.12	U	10.0	9.56		ug/L		96	85 - 115	6	20
1,1-Dichloroethane	0.070	U	10.0	10.1		ug/L		101	85 - 115	2	20
1,2-Dichloroethane	0.10	U	10.0	10.9		ug/L		109	81 - 117	3	20
cis-1,2-Dichloroethylene	0.090	U	10.0	9.95		ug/L		99	85 - 116	4	20
trans-1,2-Dichloroethylene	0.080	U	10.0	9.53		ug/L		95	84 - 115	5	20
1,1-Dichloroethene	0.080	U	10.0	9.08		ug/L		91	80 - 119	7	20
1,4-Dioxane	7.6	U	200	211		ug/L		105	41 - 150	1	20
Ethylbenzene	0.090	U	10.0	9.36		ug/L		94	87 - 116	3	20
Methylene Chloride	0.85	J	10.0	10.9		ug/L		100	80 - 115	1	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	11.1		ug/L		111	70 - 127	1	20
Ethyl Cyanide	1.4	U	50.0	60.6		ug/L		121	60 - 134	5	20
Tetrachloroethene	0.18	U	10.0	8.97		ug/L		90	85 - 115	3	20
Tetrahydrofuran	1.1	U	50.0	54.4		ug/L		109	61 - 135	3	20
Toluene	0.070	U	10.0	9.18		ug/L		92	85 - 119	5	20
1,1,1-Trichloroethane	0.070	U	10.0	9.58		ug/L		96	85 - 116	3	20
1,1,2-Trichloroethane	0.15	U	10.0	10.7		ug/L		107	79 - 119	2	20
Trichloroethene	0.25	U	10.0	9.78		ug/L		98	80 - 117	2	20
Vinyl chloride	0.080	U	10.0	9.22		ug/L		92	65 - 136	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		84 - 118
1,2-Dichloroethane-d4 (Surr)	114		79 - 125
Toluene-d8 (Surr)	101		85 - 121
Dibromofluoromethane (Surr)	112		85 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-15622/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0	U	10	1.0	ug/L		11/05/12 11:00	11/08/12 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*51*		*21 - 85*	*11/05/12 11:00*	*11/08/12 17:54*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*46 - 118*	*11/05/12 11:00*	*11/08/12 17:54*	*1*
Nitrobenzene-d5 (Surr)	*84*		*45 - 99*	*11/05/12 11:00*	*11/08/12 17:54*	*1*
Phenol-d5 (Surr)	*36*		*10 - 70*	*11/05/12 11:00*	*11/08/12 17:54*	*1*
Terphenyl-d14 (Surr)	*75*		*53 - 126*	*11/05/12 11:00*	*11/08/12 17:54*	*1*
2-Fluorobiphenyl (Surr)	*74*		*46 - 99*	*11/05/12 11:00*	*11/08/12 17:54*	*1*

Lab Sample ID: LCS 160-15622/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	79.4		ug/L		79	56 - 91
Acenaphthylene	100	80.1		ug/L		80	56 - 92
Anthracene	100	80.8		ug/L		81	59 - 94
Benzo[a]anthracene	100	97.2		ug/L		97	69 - 107
Benzo[b]fluoranthene	100	94.8		ug/L		95	67 - 101
Benzo[k]fluoranthene	100	93.2		ug/L		93	66 - 104
Benzo[g,h,i]perylene	100	93.3		ug/L		93	65 - 109
Benzo[a]pyrene	100	85.3		ug/L		85	60 - 97
Bis(2-chloroethoxy)methane	100	80.2		ug/L		80	51 - 95
Bis(2-chloroethyl)ether	100	82.5		ug/L		82	49 - 99
Bis(2-ethylhexyl) phthalate	100	89.4		ug/L		89	61 - 103
4-Bromophenyl phenyl ether	100	83.7		ug/L		84	61 - 98
Butyl benzyl phthalate	100	89.6		ug/L		90	60 - 101
Carbazole	99.9	85.4		ug/L		86	60 - 98
4-Chloroaniline	100	48.5		ug/L		49	24 - 70
4-Chloro-3-methylphenol	100	81.1		ug/L		81	49 - 90
2-Chloronaphthalene	100	78.3		ug/L		78	52 - 90
2-Chlorophenol	100	74.0		ug/L		74	47 - 90
4-Chlorophenyl phenyl ether	100	80.5		ug/L		81	56 - 93
Chrysene	100	85.3		ug/L		85	61 - 97
Dibenz(a,h)anthracene	100	91.2		ug/L		91	60 - 111
Dibenzofuran	100	79.6		ug/L		80	54 - 88
Di-n-butyl phthalate	100	85.7		ug/L		86	59 - 99
1,2-Dichlorobenzene	100	76.4		ug/L		76	45 - 91
1,3-Dichlorobenzene	100	73.4		ug/L		73	40 - 89
1,4-Dichlorobenzene	100	71.1		ug/L		71	43 - 87
3,3'-Dichlorobenzidine	100	63.5		ug/L		64	33 - 82
2,4-Dichlorophenol	100	79.2		ug/L		79	54 - 88
Diethyl phthalate	100	85.4		ug/L		85	58 - 96
2,4-Dimethylphenol	100	91.5	O	ug/L		91	48 - 88
Dimethyl phthalate	100	84.8		ug/L		85	60 - 94
4,6-Dinitro-2-methylphenol	100	86.6		ug/L		87	57 - 99
2,4-Dinitrophenol	100	75.5		ug/L		75	34 - 100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-15622/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	100	90.6		ug/L		91	58 - 99
2,6-Dinitrotoluene	100	86.4		ug/L		86	61 - 94
Di-n-octyl phthalate	100	91.8		ug/L		92	60 - 105
Fluoranthene	100	85.7		ug/L		86	59 - 99
Fluorene	100	81.4		ug/L		81	57 - 94
Hexachlorobenzene	100	83.0		ug/L		83	60 - 100
Hexachlorobutadiene	100	75.4		ug/L		75	33 - 96
Hexachlorocyclopentadiene	100	88.5		ug/L		88	40 - 121
Hexachloroethane	100	76.5		ug/L		76	38 - 92
Indeno[1,2,3-cd]pyrene	100	97.3		ug/L		97	57 - 122
Isophorone	100	76.5		ug/L		76	43 - 105
2-Methylnaphthalene	100	74.1		ug/L		74	48 - 88
2-Methylphenol	100	69.3		ug/L		69	46 - 80
3 & 4 Methylphenol	100	58.9		ug/L		59	48 - 84
Naphthalene	100	76.3		ug/L		76	50 - 88
2-Nitroaniline	100	87.8		ug/L		88	55 - 97
3-Nitroaniline	100	66.5		ug/L		67	34 - 85
4-Nitroaniline	100	80.2		ug/L		80	51 - 90
Nitrobenzene	100	82.6		ug/L		83	49 - 99
2-Nitrophenol	100	82.5		ug/L		83	51 - 95
4-Nitrophenol	100	33.7		ug/L		34	17 - 42
N-Nitrosodiphenylamine	100	101		ug/L		101	68 - 121
N-Nitrosodi-n-propylamine	100	87.4		ug/L		87	53 - 106
2,2'-oxybis[1-chloropropane]	100	85.2		ug/L		85	44 - 103
Pentachlorophenol	100	81.7		ug/L		82	56 - 97
Phenanthrene	100	81.6		ug/L		82	59 - 94
Phenol	100	32.8		ug/L		33	21 - 50
Pyrene	100	83.3		ug/L		83	62 - 101
1,2,4-Trichlorobenzene	99.9	76.8		ug/L		77	46 - 89
2,4,5-Trichlorophenol	100	80.6		ug/L		81	58 - 95
2,4,6-Trichlorophenol	100	81.2		ug/L		81	54 - 93

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*53*		*21 - 85*
2,4,6-Tribromophenol (Surr)	*89*		*46 - 118*
Nitrobenzene-d5 (Surr)	*89*		*45 - 99*
Phenol-d5 (Surr)	*36*		*10 - 70*
Terphenyl-d14 (Surr)	*83*		*53 - 126*
2-Fluorobiphenyl (Surr)	*77*		*46 - 99*

Lab Sample ID: LCSD 160-15622/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	100	75.7		ug/L		76	56 - 91	5	20
Acenaphthylene	100	76.9		ug/L		77	56 - 92	4	20
Anthracene	100	77.5		ug/L		78	59 - 94	4	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-15622/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	100	92.7		ug/L		93	69 - 107	5	20
Benzo[b]fluoranthene	100	91.4		ug/L		91	67 - 101	4	20
Benzo[k]fluoranthene	100	89.3		ug/L		89	66 - 104	4	20
Benzo[g,h,i]perylene	100	89.1		ug/L		89	65 - 109	5	20
Benzo[a]pyrene	100	83.5		ug/L		84	60 - 97	2	20
Bis(2-chloroethoxy)methane	100	74.8		ug/L		75	51 - 95	7	20
Bis(2-chloroethyl)ether	100	76.6		ug/L		77	49 - 99	7	20
Bis(2-ethylhexyl) phthalate	100	85.0		ug/L		85	61 - 103	5	20
4-Bromophenyl phenyl ether	100	80.1		ug/L		80	61 - 98	4	20
Butyl benzyl phthalate	100	84.7		ug/L		85	60 - 101	6	20
Carbazole	99.9	82.0		ug/L		82	60 - 98	4	20
4-Chloroaniline	100	43.4		ug/L		43	24 - 70	11	20
4-Chloro-3-methylphenol	100	80.1		ug/L		80	49 - 90	1	20
2-Chloronaphthalene	100	72.7		ug/L		73	52 - 90	7	20
2-Chlorophenol	100	69.3		ug/L		69	47 - 90	7	20
4-Chlorophenyl phenyl ether	100	78.6		ug/L		79	56 - 93	2	20
Chrysene	100	80.9		ug/L		81	61 - 97	5	20
Dibenz(a,h)anthracene	100	91.8		ug/L		92	60 - 111	1	20
Dibenzofuran	100	75.7		ug/L		76	54 - 88	5	20
Di-n-butyl phthalate	100	83.5		ug/L		83	59 - 99	3	20
1,2-Dichlorobenzene	100	69.8		ug/L		70	45 - 91	9	20
1,3-Dichlorobenzene	100	66.9		ug/L		67	40 - 89	9	20
1,4-Dichlorobenzene	100	64.6		ug/L		65	43 - 87	10	20
3,3'-Dichlorobenzidine	100	59.7		ug/L		60	33 - 82	6	20
2,4-Dichlorophenol	100	75.6		ug/L		76	54 - 88	5	20
Diethyl phthalate	100	83.0		ug/L		83	58 - 96	3	20
2,4-Dimethylphenol	100	86.7		ug/L		87	48 - 88	5	20
Dimethyl phthalate	100	82.1		ug/L		82	60 - 94	3	20
4,6-Dinitro-2-methylphenol	100	85.3		ug/L		85	57 - 99	1	20
2,4-Dinitrophenol	100	75.4		ug/L		75	34 - 100	0	20
2,4-Dinitrotoluene	100	87.4		ug/L		87	58 - 99	4	20
2,6-Dinitrotoluene	100	84.9		ug/L		85	61 - 94	2	20
Di-n-octyl phthalate	100	86.8		ug/L		87	60 - 105	6	20
Fluoranthene	100	83.5		ug/L		83	59 - 99	3	20
Fluorene	100	79.1		ug/L		79	57 - 94	3	20
Hexachlorobenzene	100	79.7		ug/L		80	60 - 100	4	20
Hexachlorobutadiene	100	69.2		ug/L		69	33 - 96	9	20
Hexachlorocyclopentadiene	100	82.9		ug/L		83	40 - 121	6	20
Hexachloroethane	100	69.3		ug/L		69	38 - 92	10	20
Indeno[1,2,3-cd]pyrene	100	92.1		ug/L		92	57 - 122	5	20
Isophorone	100	71.9		ug/L		72	43 - 105	6	20
2-Methylnaphthalene	100	69.4		ug/L		69	48 - 88	7	20
2-Methylphenol	100	65.4		ug/L		65	46 - 80	6	20
3 & 4 Methylphenol	100	57.0		ug/L		57	48 - 84	3	20
Naphthalene	100	70.5		ug/L		70	50 - 88	8	20
2-Nitroaniline	100	84.9		ug/L		85	55 - 97	3	20
3-Nitroaniline	100	61.7		ug/L		62	34 - 85	7	20
4-Nitroaniline	100	77.5		ug/L		78	51 - 90	3	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-15622/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrobenzene			100	76.9		ug/L		77	49 - 99	7	20
2-Nitrophenol			100	76.3		ug/L		76	51 - 95	8	20
4-Nitrophenol			100	35.5		ug/L		35	17 - 42	5	20
N-Nitrosodiphenylamine			100	97.5		ug/L		98	68 - 121	3	20
N-Nitrosodi-n-propylamine			100	81.9		ug/L		82	53 - 106	6	20
2,2'-oxybis[1-chloropropane]			100	78.7		ug/L		79	44 - 103	8	20
Pentachlorophenol			100	81.4		ug/L		81	56 - 97	0	20
Phenanthrene			100	78.3		ug/L		78	59 - 94	4	20
Phenol			100	31.7		ug/L		32	21 - 50	3	20
Pyrene			100	79.3		ug/L		79	62 - 101	5	20
1,2,4-Trichlorobenzene			99.9	70.4		ug/L		70	46 - 89	9	20
2,4,5-Trichlorophenol			100	78.1		ug/L		78	58 - 95	3	20
2,4,6-Trichlorophenol			100	78.5		ug/L		78	54 - 93	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*51*		*21 - 85*
2,4,6-Tribromophenol (Surr)	*87*		*46 - 118*
Nitrobenzene-d5 (Surr)	*82*		*45 - 99*
Phenol-d5 (Surr)	*35*		*10 - 70*
Terphenyl-d14 (Surr)	*78*		*53 - 126*
2-Fluorobiphenyl (Surr)	*72*		*46 - 99*

Lab Sample ID: 160-832-1 MS — **Client Sample ID: B2M1N1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene	0.67		191	157		ug/L		82	49 - 97		
Acenaphthylene	0.67		191	159		ug/L		83	49 - 98		
Anthracene	0.67		191	156		ug/L		82	49 - 103		
Benzo[a]anthracene	0.67		191	187		ug/L		98	52 - 117		
Benzo[b]fluoranthene	0.67		191	179		ug/L		94	50 - 110		
Benzo[k]fluoranthene	0.67		191	180		ug/L		94	53 - 111		
Benzo[g,h,i]perylene	0.67		191	179		ug/L		93	44 - 125		
Benzo[a]pyrene	0.67		191	165		ug/L		86	47 - 107		
Bis(2-chloroethoxy)methane	0.67		191	152		ug/L		79	46 - 98		
Bis(2-chloroethyl)ether	0.67		191	156		ug/L		81	40 - 99		
Bis(2-ethylhexyl) phthalate	0.67		191	168		ug/L		88	47 - 111		
4-Bromophenyl phenyl ether	0.67		191	163		ug/L		85	49 - 108		
Butyl benzyl phthalate	0.67		191	167		ug/L		87	44 - 113		
Carbazole	0.67		191	165		ug/L		86	48 - 104		
4-Chloroaniline	1.5		191	104		ug/L		54	25 - 73		
4-Chloro-3-methylphenol	0.67		191	162		ug/L		85	42 - 100		
2-Chloronaphthalene	0.67		191	153		ug/L		80	45 - 96		
2-Chlorophenol	0.67		191	146		ug/L		76	37 - 99		
4-Chlorophenyl phenyl ether	0.67		191	163		ug/L		85	50 - 101		
Chrysene	0.67		191	166		ug/L		87	48 - 111		
Dibenz(a,h)anthracene	0.67		191	183		ug/L		95	26 - 126		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-832-1 MS | **Client Sample ID: B2M1N1**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 16261 | **Prep Batch: 15622**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenzofuran	0.67		191	159		ug/L		83	47 - 94
Di-n-butyl phthalate	0.67		191	164		ug/L		85	47 - 107
1,2-Dichlorobenzene	0.67		191	144		ug/L		75	36 - 92
1,3-Dichlorobenzene	0.67		191	140		ug/L		73	32 - 92
1,4-Dichlorobenzene	0.67		191	136		ug/L		71	33 - 89
3,3'-Dichlorobenzidine	0.86		191	123		ug/L		64	23 - 89
2,4-Dichlorophenol	0.72		191	157		ug/L		82	42 - 98
Diethyl phthalate	0.67		191	168		ug/L		88	50 - 104
2,4-Dimethylphenol	0.67		191	181		ug/L		94	39 - 97
Dimethyl phthalate	0.67		191	168		ug/L		88	50 - 103
4,6-Dinitro-2-methylphenol	0.67		191	169		ug/L		88	36 - 119
2,4-Dinitrophenol	1.3		191	155		ug/L		81	22 - 121
2,4-Dinitrotoluene	0.67		191	179		ug/L		93	51 - 107
2,6-Dinitrotoluene	1.4		191	171		ug/L		90	50 - 107
Di-n-octyl phthalate	0.67		191	172		ug/L		90	47 - 115
Fluoranthene	0.67		191	169		ug/L		88	50 - 108
Fluorene	0.67		191	162		ug/L		85	51 - 102
Hexachlorobenzene	0.67		191	165		ug/L		86	50 - 113
Hexachlorobutadiene	0.67		191	150		ug/L		78	31 - 100
Hexachlorocyclopentadiene	0.67		191	172		ug/L		90	10 - 122
Hexachloroethane	0.67		191	144		ug/L		75	29 - 92
Indeno[1,2,3-cd]pyrene	0.67		191	182		ug/L		95	48 - 128
Isophorone	0.67		191	143		ug/L		75	43 - 115
2-Methylnaphthalene	0.67		191	145		ug/L		76	40 - 91
2-Methylphenol	0.67		191	146		ug/L		76	32 - 96
3 & 4 Methylphenol	1.3		191	133		ug/L		69	30 - 103
Naphthalene	0.67		191	146		ug/L		76	41 - 94
2-Nitroaniline	0.67		191	167		ug/L		87	45 - 101
3-Nitroaniline	0.67		191	137		ug/L		72	34 - 87
4-Nitroaniline	0.67		191	158		ug/L		83	40 - 103
Nitrobenzene	0.73		191	154		ug/L		81	43 - 96
2-Nitrophenol	0.67		191	158		ug/L		83	42 - 99
4-Nitrophenol	1.3		191	103		ug/L		54	10 - 69
N-Nitrosodiphenylamine	0.67		191	196		ug/L		102	59 - 129
N-Nitrosodi-n-propylamine	0.67		191	163		ug/L		85	44 - 109
2,2'-oxybis[1-chloropropane]	0.67		191	152		ug/L		79	33 - 100
Pentachlorophenol	0.85		191	167		ug/L		87	38 - 119
Phenanthrene	0.67		191	158		ug/L		83	49 - 102
Phenol	1.3		191	88.9		ug/L		46	10 - 68
Pyrene	0.67		191	159		ug/L		83	45 - 112
1,2,4-Trichlorobenzene	0.67		191	150		ug/L		78	39 - 92
2,4,5-Trichlorophenol	0.67		191	159		ug/L		83	48 - 102
2,4,6-Trichlorophenol	0.67		191	163		ug/L		85	45 - 99

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*68*		*21 - 85*
2,4,6-Tribromophenol (Surr)	*96*		*46 - 118*
Nitrobenzene-d5 (Surr)	*87*		*45 - 99*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-832-1 MS
Matrix: Water
Analysis Batch: 16261

Client Sample ID: B2M1N1
Prep Type: Total/NA
Prep Batch: 15622

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Phenol-d5 (Surr)	*53*		*10 - 70*
Terphenyl-d14 (Surr)	*84*		*53 - 126*
2-Fluorobiphenyl (Surr)	*83*		*46 - 99*

Lab Sample ID: 160-832-1 MSD
Matrix: Water
Analysis Batch: 16261

Client Sample ID: B2M1N1
Prep Type: Total/NA
Prep Batch: 15622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.67		189	153		ug/L		81	49 - 97	3	20
Acenaphthylene	0.67		189	154		ug/L		81	49 - 98	3	20
Anthracene	0.67		189	154		ug/L		81	49 - 103	2	20
Benzo[a]anthracene	0.67		189	184		ug/L		97	52 - 117	2	20
Benzo[b]fluoranthene	0.67		189	178		ug/L		94	50 - 110	1	20
Benzo[k]fluoranthene	0.67		189	174		ug/L		92	53 - 111	4	20
Benzo[g,h,i]perylene	0.67		189	173		ug/L		91	44 - 125	3	20
Benzo[a]pyrene	0.67		189	162		ug/L		85	47 - 107	2	20
Bis(2-chloroethoxy)methane	0.67		189	150		ug/L		79	46 - 98	1	20
Bis(2-chloroethyl)ether	0.67		189	157		ug/L		83	40 - 99	1	20
Bis(2-ethylhexyl) phthalate	0.67		189	180		ug/L		95	47 - 111	7	20
4-Bromophenyl phenyl ether	0.67		189	161		ug/L		85	49 - 108	1	20
Butyl benzyl phthalate	0.67		189	169		ug/L		89	44 - 113	1	20
Carbazole	0.67		189	164		ug/L		87	48 - 104	0	20
4-Chloroaniline	1.5		189	103		ug/L		54	25 - 73	0	20
4-Chloro-3-methylphenol	0.67		189	158		ug/L		83	42 - 100	3	20
2-Chloronaphthalene	0.67		189	150		ug/L		79	45 - 96	2	20
2-Chlorophenol	0.67		189	144		ug/L		76	37 - 99	1	20
4-Chlorophenyl phenyl ether	0.67		189	156		ug/L		82	50 - 101	4	20
Chrysene	0.67		189	161		ug/L		85	48 - 111	3	20
Dibenz(a,h)anthracene	0.67		189	169		ug/L		89	26 - 126	8	20
Dibenzofuran	0.67		189	152		ug/L		80	47 - 94	4	20
Di-n-butyl phthalate	0.67		189	165		ug/L		87	47 - 107	1	20
1,2-Dichlorobenzene	0.67		189	145		ug/L		76	36 - 92	0	20
1,3-Dichlorobenzene	0.67		189	140		ug/L		74	32 - 92	0	20
1,4-Dichlorobenzene	0.67		189	136		ug/L		72	33 - 89	0	20
3,3'-Dichlorobenzidine	0.86		189	126		ug/L		66	23 - 89	2	20
2,4-Dichlorophenol	0.72		189	150		ug/L		79	42 - 98	5	20
Diethyl phthalate	0.67		189	163		ug/L		86	50 - 104	3	20
2,4-Dimethylphenol	0.67		189	176		ug/L		93	39 - 97	3	20
Dimethyl phthalate	0.67		189	163		ug/L		86	50 - 103	3	20
4,6-Dinitro-2-methylphenol	0.67		189	168		ug/L		89	36 - 119	1	20
2,4-Dinitrophenol	1.3		189	151		ug/L		80	22 - 121	3	20
2,4-Dinitrotoluene	0.67		189	174		ug/L		92	51 - 107	3	20
2,6-Dinitrotoluene	1.4		189	166		ug/L		87	50 - 107	3	20
Di-n-octyl phthalate	0.67		189	174		ug/L		92	47 - 115	1	20
Fluoranthene	0.67		189	166		ug/L		87	50 - 108	2	20
Fluorene	0.67		189	157		ug/L		83	51 - 102	3	20
Hexachlorobenzene	0.67		189	162		ug/L		85	50 - 113	2	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-832-1 MSD — **Client Sample ID: B2M1N1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16261 — **Prep Batch: 15622**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene	0.67		189	146		ug/L		77	31 - 100	2	20
Hexachlorocyclopentadiene	0.67		189	170		ug/L		90	10 - 122	1	20
Hexachloroethane	0.67		189	147		ug/L		78	29 - 92	2	20
Indeno[1,2,3-cd]pyrene	0.67		189	181		ug/L		96	48 - 128	1	20
Isophorone	0.67		189	144		ug/L		76	43 - 115	0	20
2-Methylnaphthalene	0.67		189	142		ug/L		75	40 - 91	2	20
2-Methylphenol	0.67		189	142		ug/L		75	32 - 96	3	20
3 & 4 Methylphenol	1.3		189	130		ug/L		68	30 - 103	2	20
Naphthalene	0.67		189	144		ug/L		76	41 - 94	1	20
2-Nitroaniline	0.67		189	169		ug/L		89	45 - 101	1	20
3-Nitroaniline	0.67		189	137		ug/L		72	34 - 87	0	20
4-Nitroaniline	0.67		189	158		ug/L		83	40 - 103	0	20
Nitrobenzene	0.73		189	156		ug/L		82	43 - 96	1	20
2-Nitrophenol	0.67		189	156		ug/L		82	42 - 99	1	20
4-Nitrophenol	1.3		189	100		ug/L		53	10 - 69	3	20
N-Nitrosodiphenylamine	0.67		189	195		ug/L		103	59 - 129	1	20
N-Nitrosodi-n-propylamine	0.67		189	166		ug/L		88	44 - 109	2	20
2,2'-oxybis[1-chloropropane]	0.67		189	160		ug/L		85	33 - 100	5	20
Pentachlorophenol	0.85		189	165		ug/L		87	38 - 119	1	20
Phenanthrene	0.67		189	156		ug/L		82	49 - 102	1	20
Phenol	1.3		189	87.5		ug/L		46	10 - 68	2	20
Pyrene	0.67		189	157		ug/L		83	45 - 112	1	20
1,2,4-Trichlorobenzene	0.67		189	148		ug/L		78	39 - 92	1	20
2,4,5-Trichlorophenol	0.67		189	155		ug/L		82	48 - 102	3	20
2,4,6-Trichlorophenol	0.67		189	157		ug/L		83	45 - 99	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*68*		*21 - 85*
2,4,6-Tribromophenol (Surr)	*91*		*46 - 118*
Nitrobenzene-d5 (Surr)	*87*		*45 - 99*
Phenol-d5 (Surr)	*53*		*10 - 70*
Terphenyl-d14 (Surr)	*83*		*53 - 126*
2-Fluorobiphenyl (Surr)	*80*		*46 - 99*

Method: 8041A - Phenols (GC)

Lab Sample ID: LCS 160-15300/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 19295 — **Prep Batch: 15300**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,4,6-Tetrachlorophenol	100	100		ug/L		100	48 - 140
2,4,5-Trichlorophenol	100	97.7		ug/L		98	49 - 140
2,4,6-Trichlorophenol	100	97.0		ug/L		97	51 - 140
2,4-Dichlorophenol	100	86.3		ug/L		86	43 - 131
2,4-Dimethylphenol	100	87.1		ug/L		87	38 - 130
2,4-Dinitrophenol	100	95.6		ug/L		96	32 - 140
2,6-Dichlorophenol	100	89.8		ug/L		90	45 - 136

Method: 8041A - Phenols (GC) (Continued)

Lab Sample ID: LCS 160-15300/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 19295 — **Prep Batch: 15300**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	100	83.6		ug/L		84	35 - 139
2-Methylphenol	100	85.8		ug/L		86	42 - 131
2-Nitrophenol	100	87.7		ug/L		88	44 - 134
3 & 4 Methylphenol	200	178		ug/L		89	43 - 133
4,6-Dinitro-2-methylphenol	100	91.7		ug/L		92	52 - 140
4-Chloro-3-methylphenol	100	91.8		ug/L		92	46 - 139
4-Nitrophenol	100	101		ug/L		101	48 - 140
Dinoseb	100	108		ug/L		108	49 - 140
Pentachlorophenol	100	102		ug/L		102	47 - 140
Phenol	100	82.2		ug/L		82	41 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*109*		*54 - 139*
2-Fluorophenol	*80*		*34 - 121*

Lab Sample ID: 160-827-1 MS — **Client Sample ID: B2M1C9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 19295 — **Prep Batch: 15300**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,4,6-Tetrachlorophenol	2.1	U	95.2	88.2		ug/L		93	54 - 150
2,4,5-Trichlorophenol	1.3	U	95.2	87.0		ug/L		91	53 - 149
2,4,6-Trichlorophenol	1.2	U	95.2	86.2		ug/L		91	53 - 150
2,4-Dichlorophenol	1.4	U	95.2	77.7		ug/L		82	43 - 140
2,4-Dimethylphenol	1.3	U	95.2	78.0		ug/L		82	44 - 143
2,4-Dinitrophenol	1.7	U	95.2	86.0		ug/L		90	25 - 150
2,6-Dichlorophenol	1.2	U	95.2	80.1		ug/L		84	46 - 145
2-Chlorophenol	1.6	U	95.2	76.6		ug/L		80	47 - 131
2-Methylphenol	1.4	U	95.2	77.7		ug/L		82	44 - 140
2-Nitrophenol	0.68	U	95.2	79.2		ug/L		83	44 - 145
3 & 4 Methylphenol	1.5	U	190	159		ug/L		83	44 - 142
4,6-Dinitro-2-methylphenol	1.6	U	95.2	82.0		ug/L		86	54 - 147
4-Chloro-3-methylphenol	1.3	U	95.2	81.4		ug/L		85	50 - 145
4-Nitrophenol	1.8	U	95.2	92.0		ug/L		97	54 - 150
Dinoseb	1.6	U	95.2	96.5		ug/L		101	56 - 150
Pentachlorophenol	1.4	U	95.2	89.3		ug/L		94	54 - 160
Phenol	1.7	U	95.2	74.1		ug/L		78	45 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*54 - 139*
2-Fluorophenol	*75*		*34 - 121*

Lab Sample ID: 160-827-1 MSD — **Client Sample ID: B2M1C9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 19295 — **Prep Batch: 15300**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,4,6-Tetrachlorophenol	2.1	U	95.0	102		ug/L		107	54 - 150	15	20

Method: 8041A - Phenols (GC) (Continued)

Lab Sample ID: 160-827-1 MSD — **Client Sample ID: B2M1C9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 19295 — **Prep Batch: 15300**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	1.3	U	95.0	99.6		ug/L		105	53 - 149	13	20
2,4,6-Trichlorophenol	1.2	U	95.0	99.4		ug/L		105	53 - 150	14	20
2,4-Dichlorophenol	1.4	U	95.0	87.9		ug/L		92	43 - 140	12	20
2,4-Dimethylphenol	1.3	U	95.0	88.5		ug/L		93	44 - 143	13	20
2,4-Dinitrophenol	1.7	U	95.0	102		ug/L		108	25 - 150	17	20
2,6-Dichlorophenol	1.2	U	95.0	91.4		ug/L		96	46 - 145	13	20
2-Chlorophenol	1.6	U	95.0	85.8		ug/L		90	47 - 131	11	20
2-Methylphenol	1.4	U	95.0	87.5		ug/L		92	44 - 140	12	20
2-Nitrophenol	0.68	U	95.0	93.6		ug/L		98	44 - 145	17	20
3 & 4 Methylphenol	1.5	U	190	181		ug/L		96	44 - 142	13	20
4,6-Dinitro-2-methylphenol	1.6	U	95.0	97.0		ug/L		102	54 - 147	17	20
4-Chloro-3-methylphenol	1.3	U	95.0	93.6		ug/L		99	50 - 145	14	20
4-Nitrophenol	1.8	U	95.0	106		ug/L		111	54 - 150	14	20
Dinoseb	1.6	U	95.0	112		ug/L		118	56 - 150	15	20
Pentachlorophenol	1.4	U	95.0	103		ug/L		108	54 - 160	14	20
Phenol	1.7	U	95.0	83.0		ug/L		87	45 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*110*		*54 - 139*
2-Fluorophenol	*81*		*34 - 121*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-17651/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18537 — **Prep Batch: 17651**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	4.0	U	60.0	4.0	ug/L		11/20/12 15:09	11/27/12 13:46	1
Barium	4.0	U	200	4.0	ug/L		11/20/12 15:09	11/27/12 13:46	1
Beryllium	0.61	U	5.0	0.61	ug/L		11/20/12 15:09	11/27/12 13:46	1
Cadmium	0.91	U	5.0	0.91	ug/L		11/20/12 15:09	11/27/12 13:46	1
Calcium	106	U	5000	106	ug/L		11/20/12 15:09	11/27/12 13:46	1
Chromium	3.1	U	10.0	3.1	ug/L		11/20/12 15:09	11/27/12 13:46	1
Cobalt	4.0	U	50.0	4.0	ug/L		11/20/12 15:09	11/27/12 13:46	1
Copper	4.6	U	25.0	4.6	ug/L		11/20/12 15:09	11/27/12 13:46	1
Iron	28.2	U	100	28.2	ug/L		11/20/12 15:09	11/27/12 13:46	1
Magnesium	132	U	5000	132	ug/L		11/20/12 15:09	11/27/12 13:46	1
Manganese	3.3	U	15.0	3.3	ug/L		11/20/12 15:09	11/27/12 13:46	1
Nickel	13.3	U	40.0	13.3	ug/L		11/20/12 15:09	11/27/12 13:46	1
Potassium	1650	U	5000	1650	ug/L		11/20/12 15:09	11/27/12 13:46	1
Silver	6.0	U	10.0	6.0	ug/L		11/20/12 15:09	11/27/12 13:46	1
Sodium	324	U	5000	324	ug/L		11/20/12 15:09	11/27/12 13:46	1
Strontium	0.54	U	50.0	0.54	ug/L		11/20/12 15:09	11/27/12 13:46	1
Vanadium	4.1	U	50.0	4.1	ug/L		11/20/12 15:09	11/27/12 13:46	1
Zinc	5.2	U	20.0	5.2	ug/L		11/20/12 15:09	11/27/12 13:46	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 160-17651/2-A
Matrix: Water
Analysis Batch: 18537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	524.1		ug/L		105	80 - 120
Barium	1000	1064		ug/L		106	80 - 120
Beryllium	1000	1047		ug/L		105	80 - 120
Cadmium	1000	1035		ug/L		104	80 - 120
Calcium	10000	10520		ug/L		105	80 - 120
Chromium	1000	1058		ug/L		106	80 - 120
Cobalt	1000	1071		ug/L		107	80 - 120
Copper	1000	1082		ug/L		108	80 - 120
Iron	10000	10630		ug/L		106	80 - 120
Magnesium	10000	10500		ug/L		105	80 - 120
Manganese	1000	1074		ug/L		107	80 - 120
Nickel	1000	1075		ug/L		108	80 - 120
Potassium	10000	10280		ug/L		103	80 - 120
Silver	100	110.2		ug/L		110	80 - 120
Sodium	10000	10370		ug/L		104	80 - 120
Strontium	1000	1059		ug/L		106	80 - 120
Vanadium	1000	1051		ug/L		105	80 - 120
Zinc	1000	1063		ug/L		106	80 - 120

Lab Sample ID: 160-826-1 MS
Matrix: Water
Analysis Batch: 18537

Client Sample ID: B2MPL7
Prep Type: Dissolved
Prep Batch: 17651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	49500	D	10000	63800	D	ug/L		143	75 - 125
Strontium	278	D	1000	1288	D	ug/L		101	75 - 125

Lab Sample ID: 160-826-1 MS
Matrix: Water
Analysis Batch: 18537

Client Sample ID: B2MPL7
Prep Type: Dissolved
Prep Batch: 17651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	4.0	U	500	525.2		ug/L		105	75 - 125
Barium	40.5	B	1000	1101		ug/L		106	75 - 125
Beryllium	0.61	U	1000	1052		ug/L		105	75 - 125
Cadmium	0.91	U	1000	1023		ug/L		102	75 - 125
Chromium	165		1000	1192		ug/L		103	75 - 125
Cobalt	4.0	U	1000	1039		ug/L		104	75 - 125
Copper	4.6	U	1000	1054		ug/L		105	75 - 125
Iron	28.2	U	10000	10610		ug/L		106	75 - 125
Magnesium	11700		10000	22120		ug/L		104	75 - 125
Manganese	3.3	U	1000	1057		ug/L		106	75 - 125
Nickel	13.3	U	1000	1048		ug/L		105	75 - 125
Potassium	6220		10000	16700		ug/L		105	75 - 125
Silver	6.0	U	100	108.1		ug/L		108	75 - 125
Sodium	17800		10000	28270		ug/L		105	75 - 125
Vanadium	9.1	B	1000	1054		ug/L		104	75 - 125
Zinc	6.9	B	1000	1028		ug/L		102	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-826-1 MSD — **Client Sample ID: B2MPL7**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 18537 — **Prep Batch: 17651**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	49500	D	10000	62000	D	ug/L		125	75 - 125	3	20
Strontium	278	D	1000	1273	D	ug/L		100	75 - 125	1	20

Lab Sample ID: 160-826-1 MSD — **Client Sample ID: B2MPL7**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 18537 — **Prep Batch: 17651**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	4.0	U	500	521.9		ug/L		104	75 - 125	1	20
Barium	40.5	B	1000	1089		ug/L		105	75 - 125	1	20
Beryllium	0.61	U	1000	1038		ug/L		104	75 - 125	1	20
Cadmium	0.91	U	1000	1022		ug/L		102	75 - 125	0	20
Chromium	165		1000	1194		ug/L		103	75 - 125	0	20
Cobalt	4.0	U	1000	1038		ug/L		104	75 - 125	0	20
Copper	4.6	U	1000	1053		ug/L		105	75 - 125	0	20
Iron	28.2	U	10000	10490		ug/L		105	75 - 125	1	20
Magnesium	11700		10000	21700		ug/L		100	75 - 125	2	20
Manganese	3.3	U	1000	1046		ug/L		105	75 - 125	1	20
Nickel	13.3	U	1000	1042		ug/L		104	75 - 125	1	20
Potassium	6220		10000	16500		ug/L		103	75 - 125	1	20
Silver	6.0	U	100	109.1		ug/L		109	75 - 125	1	20
Sodium	17800		10000	27830		ug/L		101	75 - 125	2	20
Vanadium	9.1	B	1000	1048		ug/L		104	75 - 125	1	20
Zinc	6.9	B	1000	1028		ug/L		102	75 - 125	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-17652/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 17863 — **Prep Batch: 17652**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		11/20/12 15:10	11/22/12 06:26	1
Antimony	2.68	B	5.0	1.7	ug/L		11/20/12 15:10	11/22/12 06:26	1
Arsenic	1.2	U	10.0	1.2	ug/L		11/20/12 15:10	11/22/12 06:26	1
Barium	0.22	U	2.0	0.22	ug/L		11/20/12 15:10	11/22/12 06:26	1
Beryllium	0.35	U	0.50	0.35	ug/L		11/20/12 15:10	11/22/12 06:26	1
Boron	10.0	U	50.0	10.0	ug/L		11/20/12 15:10	11/22/12 06:26	1
Cadmium	0.10	U	0.50	0.10	ug/L		11/20/12 15:10	11/22/12 06:26	1
Chromium	3.3	U	10.0	3.3	ug/L		11/20/12 15:10	11/22/12 06:26	1
Cobalt	0.22	U	2.0	0.22	ug/L		11/20/12 15:10	11/22/12 06:26	1
Copper	0.45	U	1.0	0.45	ug/L		11/20/12 15:10	11/22/12 06:26	1
Lead	0.17	U	3.0	0.17	ug/L		11/20/12 15:10	11/22/12 06:26	1
Molybdenum	1.0	U	5.0	1.0	ug/L		11/20/12 15:10	11/22/12 06:26	1
Selenium	1.6	U	5.0	1.6	ug/L		11/20/12 15:10	11/22/12 06:26	1
Silver	0.275	B	2.0	0.050	ug/L		11/20/12 15:10	11/22/12 06:26	1
Thallium	0.55	U	2.0	0.55	ug/L		11/20/12 15:10	11/22/12 06:26	1
Tin	1.0	U	2.0	1.0	ug/L		11/20/12 15:10	11/22/12 06:26	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-17652/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 17863 — **Prep Batch: 17652**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9535		ug/L		95	80 - 120
Antimony	500	528.1		ug/L		106	80 - 120
Arsenic	1000	1004		ug/L		100	80 - 120
Barium	1000	1040		ug/L		104	80 - 120
Beryllium	1000	1123		ug/L		112	80 - 120
Boron	1000	1186		ug/L		119	80 - 120
Cadmium	1000	1035		ug/L		104	80 - 120
Chromium	1000	982.4		ug/L		98	80 - 120
Cobalt	1000	1018		ug/L		102	80 - 120
Copper	1000	1014		ug/L		101	80 - 120
Lead	1000	978.7		ug/L		98	80 - 120
Molybdenum	1000	1085		ug/L		108	80 - 120
Selenium	1000	1002		ug/L		100	80 - 120
Silver	100	104.4		ug/L		104	80 - 120
Thallium	200	197.4		ug/L		99	80 - 120
Tin	1000	1016		ug/L		102	80 - 120

Lab Sample ID: 160-826-3 MS — **Client Sample ID: B2MPT0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 17863 — **Prep Batch: 17652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	12.9	U	10000	9434		ug/L		94	80 - 120
Antimony	3.9	B C	500	531.2		ug/L		105	80 - 120
Arsenic	3.4	B	1000	980.6		ug/L		98	80 - 120
Barium	29.5		1000	1042		ug/L		101	80 - 120
Beryllium	0.35	U	1000	1129		ug/L		113	80 - 120
Boron	35.7	B N	1000	1252	N	ug/L		122	80 - 120
Cadmium	0.10	U	1000	1022		ug/L		102	80 - 120
Chromium	8.0	B	1000	983.2		ug/L		98	80 - 120
Cobalt	0.22	U	1000	942.3		ug/L		94	80 - 120
Copper	0.55	B	1000	949.7		ug/L		95	80 - 120
Lead	0.29	B	1000	968.3		ug/L		97	80 - 120
Molybdenum	3.2	B	1000	1027		ug/L		102	80 - 120
Selenium	1.6	U	1000	968.6		ug/L		97	80 - 120
Silver	0.75	B C	100	99.13		ug/L		98	80 - 120
Thallium	0.70	B	200	195.7		ug/L		98	80 - 120
Tin	1.5	B	1000	1021		ug/L		102	80 - 120

Lab Sample ID: 160-826-3 MSD — **Client Sample ID: B2MPT0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 17863 — **Prep Batch: 17652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	12.9	U	10000	9371		ug/L		94	80 - 120	1	20
Antimony	3.9	B C	500	525.0		ug/L		104	80 - 120	1	20
Arsenic	3.4	B	1000	963.4		ug/L		96	80 - 120	2	20
Barium	29.5		1000	1029		ug/L		100	80 - 120	1	20

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-826-3 MSD — **Client Sample ID: B2MPT0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 17863 — **Prep Batch: 17652**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	0.35	U	1000	1109		ug/L		111	80 - 120	2	20
Boron	35.7	B N	1000	1233		ug/L		120	80 - 120	2	20
Cadmium	0.10	U	1000	1008		ug/L		101	80 - 120	1	20
Chromium	8.0	B	1000	969.7		ug/L		96	80 - 120	1	20
Cobalt	0.22	U	1000	939.2		ug/L		94	80 - 120	0	20
Copper	0.55	B	1000	938.4		ug/L		94	80 - 120	1	20
Lead	0.29	B	1000	971.0		ug/L		97	80 - 120	0	20
Molybdenum	3.2	B	1000	1036		ug/L		103	80 - 120	1	20
Selenium	1.6	U	1000	964.9		ug/L		96	80 - 120	0	20
Silver	0.75	B C	100	103.9		ug/L		103	80 - 120	5	20
Thallium	0.70	B	200	196.3		ug/L		98	80 - 120	0	20
Tin	1.5	B	1000	1008		ug/L		101	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-15642/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			10/30/12 22:15	1
Nitrite as N	0.0030	U	0.020	0.0030	mg/L			10/30/12 22:15	1
Fluoride	0.0255	B	0.10	0.010	mg/L			10/30/12 22:15	1
Chloride	0.110	B	0.20	0.020	mg/L			10/30/12 22:15	1
Sulfate	0.050	U	0.50	0.050	mg/L			10/30/12 22:15	1

Lab Sample ID: LCS 160-15642/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.377		mg/L		94	90 - 110
Nitrite as N	0.160	0.170		mg/L		106	90 - 110
Fluoride	1.00	1.01		mg/L		101	90 - 110
Chloride	2.00	1.86		mg/L		93	90 - 110
Sulfate	8.00	7.76		mg/L		97	90 - 110

Lab Sample ID: 160-826-3 MS — **Client Sample ID: B2MPT0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0030	U N	0.100	0.115	N	mg/L		115	90 - 110
Fluoride	0.14		2.00	2.16		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-826-3 DU — **Client Sample ID: B2MPT0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15642

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrite as N	0.0030	U N		0.0030	U	mg/L				NC	20
Fluoride	0.14			0.129		mg/L				9	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-826-3 MS — **Client Sample ID: B2MPT0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N - DL	2.9	D	4.00	7.17		mg/L		107	90 - 110		
Chloride - DL	13.7	D	20.0	34.08		mg/L		102	90 - 110		
Sulfate - DL	37.2	D	40.0	74.57		mg/L		94	90 - 110		

Lab Sample ID: 160-826-3 DU — **Client Sample ID: B2MPT0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 15642

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N - DL	2.9	D		3.04		mg/L				5	20
Chloride - DL	13.7	D		14.27		mg/L				4	20
Sulfate - DL	37.2	D		38.41		mg/L				3	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-16943/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16987 — **Prep Batch: 16943**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	1.5	U	5.0	1.5	ug/L		11/14/12 18:55	11/15/12 11:44	1

Lab Sample ID: HLCS 160-16943/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16987 — **Prep Batch: 16943**

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			400	381.5		ug/L		95	85 - 115		

Lab Sample ID: LCS 160-16943/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16987 — **Prep Batch: 16943**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			200	216.1		ug/L		108	85 - 115		

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 160-847-1 MS — **Client Sample ID: B2MDJ1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16987 — **Prep Batch: 16943**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	2.7	B	200	211.0		ug/L		104	66 - 120		

Lab Sample ID: 160-847-1 DU — **Client Sample ID: B2MDJ1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 16987 — **Prep Batch: 16943**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	2.7	B		1.5	U	ug/L				NC	20

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 160-18092/2 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	1.8	U	5.0	1.8	ug/L			11/26/12 16:08	1

Lab Sample ID: LCS 160-18092/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic			100	98.84		ug/L		99	90 - 116		

Lab Sample ID: 160-847-2 MS — **Client Sample ID: B2MDJ9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Halogens, Total Organic	3.5	B	100	101.1		ug/L		98	85 - 117		

Lab Sample ID: 160-847-2 DU — **Client Sample ID: B2MDJ9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Halogens, Total Organic	3.5	B		3.32	B	ug/L				5	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 160-18637/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.27	U	1.0	0.27	mg/L			11/28/12 16:38	1

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 160-18637/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.86		mg/L		99	90 - 110

Lab Sample ID: 160-847-1 MS — **Client Sample ID: B2MDJ1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.78	B	5.00	5.58		mg/L		96	76 - 120

Lab Sample ID: 160-847-1 DU — **Client Sample ID: B2MDJ1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18637

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	0.78	B	0.727	B	mg/L		7	20

Method: C-01-1 - Carbon-14 (EERF C-01-1)

Lab Sample ID: MB 160-18364/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18541 — **Prep Batch: 18364**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	MDC	Unit	Prepared	Analyzed	Dil Fac
Carbon-14	8.81	U	5.07	5.07	8.81	pCi/L	11/27/12 09:26	11/27/12 18:19	1

Lab Sample ID: LCS 160-18364/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18541 — **Prep Batch: 18364**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Carbon-14	1130	1006		111	8.84	pCi/L	89	38 - 112

Lab Sample ID: 160-847-2 MS — **Client Sample ID: B2MDJ9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18541 — **Prep Batch: 18364**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	MDC	Unit	%Rec	%Rec. Limits
Carbon-14	8.79	U	1120	844.9		93.6	8.72	pCi/L	75	37 - 121

Lab Sample ID: 160-847-2 DU — **Client Sample ID: B2MDJ9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18541 — **Prep Batch: 18364**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	MDC	Unit	RER	RER Limit
Carbon-14	8.79	U	8.60	U	5.10	8.60	pCi/L	0.03	1

GC/MS VOA

Analysis Batch: 15430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-825-D-1 MS	Matrix Spike	Total/NA	Water	8260C	
160-825-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
160-826-2	B2MPL3	Total/NA	Water	8260C	
LCS 160-15430/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-15430/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-15430/2	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 16445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-847-2	B2MDJ9	Total/NA	Water	8260C	
160-847-2 MS	B2MDJ9	Total/NA	Water	8260C	
160-847-2 MSD	B2MDJ9	Total/NA	Water	8260C	
LCS 160-16445/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-16445/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-16445/2	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 15622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-832-1	B2M1N1	Total/NA	Water	3510C	
160-832-1 MS	B2M1N1	Total/NA	Water	3510C	
160-832-1 MSD	B2M1N1	Total/NA	Water	3510C	
160-832-2	B2M1N0	Total/NA	Water	3510C	
160-838-1	B2M1R2	Total/NA	Water	3510C	
160-838-2	B2M1R8	Total/NA	Water	3510C	
LCS 160-15622/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 160-15622/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 160-15622/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 16261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-832-1	B2M1N1	Total/NA	Water	8270D	15622
160-832-1 MS	B2M1N1	Total/NA	Water	8270D	15622
160-832-1 MSD	B2M1N1	Total/NA	Water	8270D	15622
160-832-2	B2M1N0	Total/NA	Water	8270D	15622
160-838-1	B2M1R2	Total/NA	Water	8270D	15622
160-838-2	B2M1R8	Total/NA	Water	8270D	15622
LCS 160-15622/2-A	Lab Control Sample	Total/NA	Water	8270D	15622
LCSD 160-15622/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	15622
MB 160-15622/1-A	Method Blank	Total/NA	Water	8270D	15622

GC Semi VOA

Prep Batch: 15300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-827-1	B2M1C9	Total/NA	Water	3520C	
160-827-1 MS	B2M1C9	Total/NA	Water	3520C	
160-827-1 MSD	B2M1C9	Total/NA	Water	3520C	
LCS 160-15300/2-A	Lab Control Sample	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Analysis Batch: 19295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-827-1	B2M1C9	Total/NA	Water	8041A	15300
160-827-1 MS	B2M1C9	Total/NA	Water	8041A	15300
160-827-1 MSD	B2M1C9	Total/NA	Water	8041A	15300
LCS 160-15300/2-A	Lab Control Sample	Total/NA	Water	8041A	15300

Metals

Prep Batch: 17651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-826-1	B2MPL7	Dissolved	Water	3010A	
160-826-1 MS	B2MPL7	Dissolved	Water	3010A	
160-826-1 MSD	B2MPL7	Dissolved	Water	3010A	
160-826-2	B2MPL3	Total/NA	Water	3010A	
LCS 160-17651/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-17651/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 17652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-826-3	B2MPT0	Total/NA	Water	3010A	
160-826-3 MS	B2MPT0	Total/NA	Water	3010A	
160-826-3 MSD	B2MPT0	Total/NA	Water	3010A	
160-826-4	B2MPT4	Dissolved	Water	3010A	
LCS 160-17652/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-17652/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 17863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-826-3	B2MPT0	Total/NA	Water	6020A	17652
160-826-3 MS	B2MPT0	Total/NA	Water	6020A	17652
160-826-3 MSD	B2MPT0	Total/NA	Water	6020A	17652
160-826-4	B2MPT4	Dissolved	Water	6020A	17652
LCS 160-17652/2-A	Lab Control Sample	Total/NA	Water	6020A	17652
MB 160-17652/1-A	Method Blank	Total/NA	Water	6020A	17652

Analysis Batch: 18537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-826-1	B2MPL7	Dissolved	Water	6010C	17651
160-826-1	B2MPL7	Dissolved	Water	6010C	17651
160-826-1 MS	B2MPL7	Dissolved	Water	6010C	17651
160-826-1 MS	B2MPL7	Dissolved	Water	6010C	17651
160-826-1 MSD	B2MPL7	Dissolved	Water	6010C	17651
160-826-1 MSD	B2MPL7	Dissolved	Water	6010C	17651
160-826-2	B2MPL3	Total/NA	Water	6010C	17651
160-826-2	B2MPL3	Total/NA	Water	6010C	17651
LCS 160-17651/2-A	Lab Control Sample	Total/NA	Water	6010C	17651
MB 160-17651/1-A	Method Blank	Total/NA	Water	6010C	17651

General Chemistry

Analysis Batch: 15642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-826-2	B2MPL3	Total/NA	Water	300.0	
160-826-2 - DL	B2MPL3	Total/NA	Water	300.0	
160-826-3	B2MPT0	Total/NA	Water	300.0	
160-826-3 - DL	B2MPT0	Total/NA	Water	300.0	
160-826-3 DU - DL	B2MPT0	Total/NA	Water	300.0	
160-826-3 DU	B2MPT0	Total/NA	Water	300.0	
160-826-3 MS - DL	B2MPT0	Total/NA	Water	300.0	
160-826-3 MS	B2MPT0	Total/NA	Water	300.0	
LCS 160-15642/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-15642/9	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 15822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-847-1	B2MDJ1	Total/NA	Water	300.0	

Prep Batch: 16943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-847-1	B2MDJ1	Total/NA	Water	9010C	
160-847-1 DU	B2MDJ1	Total/NA	Water	9010C	
160-847-1 MS	B2MDJ1	Total/NA	Water	9010C	
HLCS 160-16943/3-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 160-16943/2-A	Lab Control Sample	Total/NA	Water	9010C	
MB 160-16943/1-A	Method Blank	Total/NA	Water	9010C	

Analysis Batch: 16987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-847-1	B2MDJ1	Total/NA	Water	9012B	16943
160-847-1 DU	B2MDJ1	Total/NA	Water	9012B	16943
160-847-1 MS	B2MDJ1	Total/NA	Water	9012B	16943
HLCS 160-16943/3-A	Lab Control Sample	Total/NA	Water	9012B	16943
LCS 160-16943/2-A	Lab Control Sample	Total/NA	Water	9012B	16943
MB 160-16943/1-A	Method Blank	Total/NA	Water	9012B	16943

Analysis Batch: 18092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-847-2	B2MDJ9	Total/NA	Water	9020B	
160-847-2 DU	B2MDJ9	Total/NA	Water	9020B	
160-847-2 MS	B2MDJ9	Total/NA	Water	9020B	
LCS 160-18092/3	Lab Control Sample	Total/NA	Water	9020B	
MB 160-18092/2	Method Blank	Total/NA	Water	9020B	

Analysis Batch: 18637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-847-1	B2MDJ1	Total/NA	Water	9060	
160-847-1 DU	B2MDJ1	Total/NA	Water	9060	
160-847-1 MS	B2MDJ1	Total/NA	Water	9060	
LCS 160-18637/5	Lab Control Sample	Total/NA	Water	9060	
MB 160-18637/4	Method Blank	Total/NA	Water	9060	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-826-1
SDG: SL1324

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Prep Batch: 18364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-847-2	B2MDJ9	Total/NA	Water	LSC_Dist_Susp	
160-847-2 DU	B2MDJ9	Total/NA	Water	LSC_Dist_Susp	
160-847-2 MS	B2MDJ9	Total/NA	Water	LSC_Dist_Susp	
LCS 160-18364/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
MB 160-18364/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-826-1
SDG: SL1324

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	12DCE	TOL	DBFM
Lab Sample ID	Client Sample ID	(84-118)	(79-125)	(85-121)	(85-120)
160-825-D-1 MS	Matrix Spike	91	98	98	102
160-825-E-1 MSD	Matrix Spike Duplicate	94	98	99	104
160-826-2	B2MPL3	101	106	100	105
160-847-2	B2MDJ9	101	106	105	102
160-847-2 MS	B2MDJ9	99	113	103	113
160-847-2 MSD	B2MDJ9	96	114	101	112
LCS 160-15430/4	Lab Control Sample	95	102	99	106
LCS 160-16445/4	Lab Control Sample	97	99	101	106
LCSD 160-15430/5	Lab Control Sample Dup	94	100	97	103
LCSD 160-16445/5	Lab Control Sample Dup	97	104	104	111
MB 160-15430/2	Method Blank	94	102	99	97
MB 160-16445/2	Method Blank	98	105	101	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	TBP	NBZ	PHL	TPH	FBP
Lab Sample ID	Client Sample ID	(21-85)	(46-118)	(45-99)	(10-70)	(53-126)	(46-99)
160-832-1	B2M1N1	48	84	85	33	77	73
160-832-1 MS	B2M1N1	68	96	87	53	84	83
160-832-1 MSD	B2M1N1	68	91	87	53	83	80
160-832-2	B2M1N0	47	85	87	34	78	75
160-838-1	B2M1R2	49	89	88	34	78	78
160-838-2	B2M1R8	46	86	79	32	80	68
LCS 160-15622/2-A	Lab Control Sample	53	89	89	36	83	77
LCSD 160-15622/3-A	Lab Control Sample Dup	51	87	82	35	78	72
MB 160-15622/1-A	Method Blank	51	85	84	36	75	74

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Method: 8041A - Phenols (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TBP	2FP
Lab Sample ID	Client Sample ID	(54-139)	(34-121)
160-827-1	B2M1C9	106	84

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-826-1
SDG: SL1324

Method: 8041A - Phenols (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (54-139)	2FP (34-121)						
160-827-1 MS	B2M1C9	97	75						
160-827-1 MSD	B2M1C9	110	81						
LCS 160-15300/2-A	Lab Control Sample	109	80						

Surrogate Legend

TBP = 2,4,6-Tribromophenol

2FP = 2-Fluorophenol

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-826-1
SDG: SL1324

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-826-1	B2MPL7	Water	10/29/12 10:14	10/30/12 09:15
160-826-2	B2MPL3	Water	10/29/12 10:14	10/30/12 09:15
160-826-3	B2MPT0	Water	10/29/12 12:16	10/30/12 09:15
160-826-4	B2MPT4	Water	10/29/12 12:16	10/30/12 09:15
160-827-1	B2M1C9	Water	10/26/12 14:33	10/30/12 09:15
160-832-1	B2M1N1	Water	10/29/12 12:32	10/31/12 09:25
160-832-2	B2M1N0	Water	10/29/12 08:15	10/31/12 09:25
160-838-1	B2M1R2	Water	10/30/12 11:17	11/01/12 09:20
160-838-2	B2M1R8	Water	10/30/12 10:30	11/01/12 09:20
160-847-1	B2MDJ1	Water	11/01/12 12:08	11/02/12 09:25
160-847-2	B2MDJ9	Water	11/01/12 09:30	11/02/12 09:25