

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: 160-26608-1

TestAmerica Sample Delivery Group: SL2802
Client Project/Site: F17-019

For:

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

Attn: Mr. Scot Fitzgerald



Authorized for release by:
2/19/2018 6:45:19 PM

Jayna Awalt, Project Manager II
(314)298-8566
jayna.awalt@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Chain of Custody	6
Definitions/Glossary	9
Method Summary	10
Sample Summary	11
Client Sample Results	12
QC Sample Results	14
QC Association Summary	20
Surrogate Summary	22

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

Job ID: 160-26608-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
February 19, 2018
Attention: Scot Fitzgerald

SDG : SL2802
Number of Samples : 1 sample
Sample Matrix : Water
Data Deliverable : Summary
Date SDG Closed : February 2, 2018

II. Introduction

On February 2, 1 sample was received by TestAmerica - St. Louis for analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, 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: F17-019

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 an LCS/LCS duplicate.

Note: For Metals analyses, per standard practice, all 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate a narrative note; however, they are flagged "D" due to a limitation in the LIMS.

For solid matrices, all Metals analyses (including Hg) use a Standard Reference Material for the Laboratory Control Sample (LCS). Certificate for this source material may be obtained from TASL.

For Anion analysis, samples have been started at a 2x dilution per CHPRC direction. The samples are flagged accordingly with a "D" flag if sample concentration is above the MDL/RL. Non-conformance will be included in the below section only if dilution is greater than 2x.

For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

Per CHPRC direction, due to the short hold times for Nitrate, Nitrite and Phosphate by IC (48 hours) as well as pH analysis (24 hours), a SIR request is not needed when samples are run outside 1x hold but within 2x hold. A narrative comment will be included below if a sample is run outside the lab-specified hold time for waters.

For extractable and volatile organic analyses, several analytes are considered poor performers and will not meet CHPRC QC limits. Per CHPRC direction, the lab's statistical limits have been reported. Excursions outside these statistical limits will include a

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

Job ID: 160-26608-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

non-conformance in the sections below.

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.

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 above the MDL/RL and Method Blank is greater than 5% of the sample concentration.
- **B** - For inorganics and radiochemistry, Method Blank reported above the MDC/MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL. If on Method Blank, indicates Method Blank contamination.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL/RL and Method Blank concentration is greater than 5% of the sample concentration.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution. For ICPMS Metals analyses, per standard practice, all samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner and will not be narrated below. Only dilutions above 2x will be narrated and considered a true dilution for these samples.
- **N** - For inorganics, rad 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.
- **P** - For organic analyses (PCB/Pests only), the aroclor target analyte has greater than 25% difference for detected concentrations between the two GC columns.
- **X**- Organics and Anions IC - Sample concentration over calibration and/or surrogate recovery outside QC limits.
- **X**- Inorganics - The analyte present in the original sample is > 4x the spike concentration.
- **X**- Radiochemistry - Carrier or Tracer recovery is outside limits.
- **Z**- Sample was prepped or analyzed beyond the specified sample holding time.
- **y** - RPD is outside established limits.

ICP Metals

Batch: 350529

Sodium was detected in method blank MB 160-350061/1-A 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 "B". If the associated sample reported a result above the MDL and/or RL and MB is greater than 5% the sample concentration, the result has been flagged "C".

Batch: 351045

The following sample was diluted to bring the concentration of target analytes within the calibration range: B3H6R3 (160-26608-1). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

ICPMS Metals

Batch: 351406

Copper was detected in method blank MB 160-350065/1-A at a level that was above the method detection limit but below the reporting

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

Job ID: 160-26608-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

limit. The value should be considered an estimate, and has been flagged "B". If the associated sample reported a result above the MDL and/or RL and MB is greater than 5% the sample concentration, the result has been flagged "C".

Batch: 351588

The following sample was diluted to bring the concentration of target analytes within the calibration range: B3H6R3 (160-26608-1). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

There were no observations or non-conformances associated with the following methods:

- Volatiles**
- Alkalinity**

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Jayna Awalt
St. Louis Project Manager



Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-26608-1

SDG Number: SL2802

Login Number: 26608

List Number: 1

Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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	0.2
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 (excluding tests with immediate HTs)	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHIII Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F17-019-121	PAGE 1 OF 1
COLLECTOR	KATHY TURNER CHPRC	COMPANY CONTACT	SUMNER, LC	PROJECT COORDINATOR	SUMNER, LC
SAMPLING LOCATION	299-E33-344, YE28	PROJECT DESIGNATION	200W Pump & Treat - Perched Water Sampling	SAF NO.	F17-019
ICE CHEST NO.	GWS-719	FIELD LOGBOOK NO.	HNF-N-49116	PURCHASE ORDER/CHARGE CODE	304235
SHIPPED TO	TestAmerica St. Louis	OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	57713 8464 0825
MATRIX*	A=Air DL=Drum L=Liquid DS=Drum S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	PRELIMINARY ANALYSIS RESULTS	ACTUAL SAMPLE DEPTH	METHOD OF SHIPMENT	
POSSIBLE SAMPLE HAZARDS/ REMARKS	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	NO. OF CONTAINER(S)	N/A	ORIGINAL	
SPECIAL HANDLING AND/OR STORAGE	N/A	VOLUME	40mL	FEDERAL EXPRESS	

PRELIMINARY ANALYSIS RESULTS	ACTUAL SAMPLE DEPTH	DATE/TIME	DATE/TIME																
<table border="1"> <tr> <td>PRELIMINARY ANALYSIS RESULTS</td> <td>ACTUAL SAMPLE DEPTH</td> <td>DATE/TIME</td> <td>DATE/TIME</td> </tr> <tr> <td>NO. OF CONTAINER(S)</td> <td>N/A</td> <td>JAN 31 2018 0759</td> <td></td> </tr> <tr> <td>VOLUME</td> <td>40mL</td> <td></td> <td></td> </tr> <tr> <td>SPECIAL HANDLING AND/OR STORAGE</td> <td>N/A</td> <td></td> <td></td> </tr> </table>	PRELIMINARY ANALYSIS RESULTS	ACTUAL SAMPLE DEPTH	DATE/TIME	DATE/TIME	NO. OF CONTAINER(S)	N/A	JAN 31 2018 0759		VOLUME	40mL			SPECIAL HANDLING AND/OR STORAGE	N/A			N/A	JAN 31 2018 0759	
PRELIMINARY ANALYSIS RESULTS	ACTUAL SAMPLE DEPTH	DATE/TIME	DATE/TIME																
NO. OF CONTAINER(S)	N/A	JAN 31 2018 0759																	
VOLUME	40mL																		
SPECIAL HANDLING AND/OR STORAGE	N/A																		
NO. OF CONTAINER(S)	1																		
VOLUME	500mL																		
SPECIAL HANDLING AND/OR STORAGE	N/A																		

<p>CH2MHIII Plateau Remediation Company</p> <p>COLLECTOR KATHY TURNER CHPRC</p> <p>SAMPLING LOCATION 299-E33-344, YE28</p> <p>ICE CHEST NO. GWS-719</p> <p>SHIPPED TO TestAmerica St. Louis</p> <p>MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other</p> <p>POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.</p> <p>SPECIAL HANDLING AND/OR STORAGE N/A</p>	<p>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</p> <p>COMPANY CONTACT SUMNER, LC</p> <p>PROJECT COORDINATOR SUMNER, LC</p> <p>SAF NO. F17-019</p> <p>PURCHASE ORDER/CHARGE CODE 304235</p> <p>BILL OF LADING/AIR BILL NO. 57713 8464 0825</p>	<p>PRELIMINARY ANALYSIS RESULTS</p> <p>ACTUAL SAMPLE DEPTH N/A</p> <p>NO. OF CONTAINER(S) 1</p> <p>VOLUME 500mL</p> <p>SPECIAL HANDLING AND/OR STORAGE N/A</p>	<p>DATE/TIME JAN 31 2018 0759</p> <p>DATE/TIME JAN 31 2018 0759</p> <p>DATE/TIME FEB 01 2018 0730</p> <p>DATE/TIME FEB 01 2018 1400</p>	<p>DATE/TIME JAN 31 2018 0830</p> <p>DATE/TIME FEB 01 2018 0730</p> <p>DATE/TIME FEB 01 2018 1400</p>	<p>DATE/TIME JAN 31 2018 0830</p> <p>DATE/TIME FEB 01 2018 0730</p> <p>DATE/TIME FEB 01 2018 1400</p>
---	--	---	---	--	--



[Shipping](#)

[Tracking](#)

[Printing Services](#)

[Locations](#)

[Support](#)

[Sign In](#)

FedEx® Tracking

771384646825

Ship date:

Thu 2/01/2018

Richland, WA US

Actual delivery:

Fri 2/02/2018 9:09 am

EARTH CITY, MO US

Delivered

Signed for by: J.CLARKE

Travel History

Date/Time	Activity	Location
2/02/2018 - Friday		
9:09 am	Delivered	EARTH CITY, MO
7:26 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:19 am	At local FedEx facility	EARTH CITY, MO
5:51 am	At destination sort facility	BERKELEY, MO
5:06 am	Departed FedEx location	MEMPHIS, TN
12:01 am	Arrived at FedEx location	MEMPHIS, TN
2/01/2018 - Thursday		
4:43 pm	Left FedEx origin facility	PASCO, WA
3:16 pm	Picked up	PASCO, WA
2:50 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771384646825	Service	FedEx Standard Overnight
Weight	41 lbs / 18.6 kgs	Dimensions	16x16x17 in.
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	41 lbs / 18.6 kgs	Terms	Recipient
Shipper reference	GWS-719	Packaging	Your Packaging
Special handling section	Deliver Weekday, Additional Handling Surcharge	Standard transit	2/02/2018 by 3:00 pm

OUR COMPANY

[About FedEx](#)
[Our Portfolio](#)
[Investor Relations](#)
[Careers](#)

[FedEx Blog](#)
[Corporate Responsibility](#)
[Newsroom](#)
[Contact Us](#)

MORE FROM FEDEX

[FedEx Compatible](#)
[Developer Resource Center](#)
[FedEx Cross Border](#)

LANGUAGE

[Change Country](#)

English

ASK FEDEX

FOLLOW FEDEX

© FedEx 1995-2018

[Feedback](#)

[Site Map](#)

[Terms of Use](#)

[Security & Privacy](#)

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
 SDG: SL2802

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
X	See case narrative notes for explanation of the 'X' flag
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 associated QC blank, and the sample concentration was \leq 5X the blank concentration.

General Chemistry

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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL

Protocol References:

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



Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-26608-1	B3H6R3	Water	01/31/18 07:59	02/02/18 09:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

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

Client Sample ID: B3H6R3
Date Collected: 01/31/18 07:59
Date Received: 02/02/18 09:20

Lab Sample ID: 160-26608-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			02/12/18 16:02	1
Chloroform	0.24	J	1.0	0.10	ug/L			02/12/18 16:02	1
Chloromethane	0.10	U	2.0	0.10	ug/L			02/12/18 16:02	1
cis-1,2-Dichloroethylene	0.10	U	1.0	0.10	ug/L			02/12/18 16:02	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/12/18 16:02	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/12/18 16:02	1
Vinyl chloride	0.19	U	2.0	0.19	ug/L			02/12/18 16:02	1
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Isopropyl alcohol</i>	25		ug/L		5.94	67-63-0		02/12/18 16:02	1
<i>Tentatively Identified Compound</i>	None		ug/L					02/12/18 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		75 - 129					02/12/18 16:02	1
<i>4-Bromofluorobenzene (Surr)</i>	87		81 - 130					02/12/18 16:02	1
<i>Dibromofluoromethane (Surr)</i>	96		81 - 124					02/12/18 16:02	1
<i>Toluene-d8 (Surr)</i>	97		87 - 128					02/12/18 16:02	1

Method: 6010C - Metals (ICP)

Client Sample ID: B3H6R3
Date Collected: 01/31/18 07:59
Date Received: 02/02/18 09:20

Lab Sample ID: 160-26608-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	125	U D	500	125	ug/L		02/07/18 12:28	02/13/18 15:45	5
Calcium	156000	D	5000	1500	ug/L		02/07/18 12:28	02/13/18 15:45	5
Iron	150	U D	500	150	ug/L		02/07/18 12:28	02/13/18 15:45	5
Magnesium	56100	D	5000	1500	ug/L		02/07/18 12:28	02/13/18 15:45	5
Potassium	11100	B D	25000	7500	ug/L		02/07/18 12:28	02/13/18 15:45	5
Sodium	285000	D	5000	1500	ug/L		02/07/18 12:28	02/13/18 15:45	5

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H6R3
Date Collected: 01/31/18 07:59
Date Received: 02/02/18 09:20

Lab Sample ID: 160-26608-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	32.7	B D	50.0	20.0	ug/L		02/07/18 12:30	02/15/18 16:57	2
Arsenic	8.9	B D	10.0	4.0	ug/L		02/07/18 12:30	02/15/18 16:57	2
Cadmium	0.20	U D	0.50	0.20	ug/L		02/07/18 12:30	02/15/18 16:57	2
Chromium	71.9	D	10.0	4.0	ug/L		02/07/18 12:30	02/15/18 16:57	2
Cobalt	0.90	U D	2.0	0.90	ug/L		02/07/18 12:30	02/15/18 16:57	2
Copper	3.5	D C	1.0	0.40	ug/L		02/07/18 12:30	02/15/18 16:57	2
Manganese	22.5	D	2.0	0.90	ug/L		02/07/18 12:30	02/15/18 16:57	2
Molybdenum	29.1	D	5.0	2.0	ug/L		02/07/18 12:30	02/15/18 16:57	2
Nickel	2.0	U D	5.0	2.0	ug/L		02/07/18 12:30	02/15/18 16:57	2
Selenium	11.9	D	5.0	2.0	ug/L		02/07/18 12:30	02/15/18 16:57	2
Uranium	52900	D	25.0	10.0	ug/L		02/07/18 12:30	02/16/18 11:42	50
Zinc	120	D	20.0	7.5	ug/L		02/07/18 12:30	02/15/18 16:57	2

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
 SDG: SL2802

General Chemistry

Client Sample ID: B3H6R3
Date Collected: 01/31/18 07:59
Date Received: 02/02/18 09:20

Lab Sample ID: 160-26608-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	314		5.0	0.54	mg/L			02/12/18 21:21	1
Bicarbonate Alkalinity as CaCO3	314		5.0	0.54	mg/L			02/12/18 21:21	1
Carbonate Alkalinity as CaCO3	0.54	U	5.0	0.54	mg/L			02/12/18 21:21	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/12/18 21:21	1



Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

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

Lab Sample ID: MB 160-350626/7

Matrix: Water

Analysis Batch: 350626

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.18	U	1.0	0.18	ug/L			02/12/18 12:44	1
Chloroform	0.10	U	1.0	0.10	ug/L			02/12/18 12:44	1
Chloromethane	0.10	U	2.0	0.10	ug/L			02/12/18 12:44	1
cis-1,2-Dichloroethylene	0.10	U	1.0	0.10	ug/L			02/12/18 12:44	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			02/12/18 12:44	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			02/12/18 12:44	1
Vinyl chloride	0.19	U	2.0	0.19	ug/L			02/12/18 12:44	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/12/18 12:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 129		02/12/18 12:44	1
4-Bromofluorobenzene (Surr)	92		81 - 130		02/12/18 12:44	1
Dibromofluoromethane (Surr)	95		81 - 124		02/12/18 12:44	1
Toluene-d8 (Surr)	98		87 - 128		02/12/18 12:44	1

Lab Sample ID: LCS 160-350626/4

Matrix: Water

Analysis Batch: 350626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	9.83		ug/L		98	83 - 125
Chloroform	10.0	9.85		ug/L		98	80 - 120
Chloromethane	10.0	9.77		ug/L		98	72 - 124
cis-1,2-Dichloroethylene	10.0	9.47		ug/L		95	80 - 120
Methylene Chloride	10.0	9.57		ug/L		96	80 - 120
Trichloroethene	10.0	9.74		ug/L		97	80 - 120
Vinyl chloride	10.0	10.7		ug/L		107	77 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 129
4-Bromofluorobenzene (Surr)	89		81 - 130
Dibromofluoromethane (Surr)	96		81 - 124
Toluene-d8 (Surr)	95		87 - 128

Lab Sample ID: LCSD 160-350626/5

Matrix: Water

Analysis Batch: 350626

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
Carbon tetrachloride	10.0	10.1		ug/L		101	83 - 125	3	20
Chloroform	10.0	10.0		ug/L		100	80 - 120	2	20
Chloromethane	10.0	9.98		ug/L		100	72 - 124	2	20
cis-1,2-Dichloroethylene	10.0	9.51		ug/L		95	80 - 120	0	20
Methylene Chloride	10.0	9.61		ug/L		96	80 - 120	0	20
Trichloroethene	10.0	10.0		ug/L		100	80 - 120	3	20

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

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

Lab Sample ID: LCSD 160-350626/5
Matrix: Water
Analysis Batch: 350626

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	
Vinyl chloride	10.0	10.9		ug/L		109	77 - 122	2	20	
Surrogate	%Recovery	LCSD Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	99		75 - 129							
4-Bromofluorobenzene (Surr)	90		81 - 130							
Dibromofluoromethane (Surr)	97		81 - 124							
Toluene-d8 (Surr)	96		87 - 128							

Lab Sample ID: 160-26608-1 MS
Matrix: Water
Analysis Batch: 350626

Client Sample ID: B3H6R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Carbon tetrachloride	0.18	U	10.0	9.89		ug/L		99	77 - 131	
Chloroform	0.24	J	10.0	10.4		ug/L		102	80 - 120	
Chloromethane	0.10	U	10.0	9.67		ug/L		97	62 - 132	
cis-1,2-Dichloroethylene	0.10	U	10.0	9.54		ug/L		95	80 - 120	
Methylene Chloride	0.27	U	10.0	9.71		ug/L		97	80 - 120	
Trichloroethene	0.25	U	10.0	10.0		ug/L		100	81 - 125	
Vinyl chloride	0.19	U	10.0	11.4		ug/L		114	70 - 129	
Surrogate	%Recovery	MS Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	105		75 - 129							
4-Bromofluorobenzene (Surr)	85		81 - 130							
Dibromofluoromethane (Surr)	99		81 - 124							
Toluene-d8 (Surr)	93		87 - 128							

Lab Sample ID: 160-26608-1 MSD
Matrix: Water
Analysis Batch: 350626

Client Sample ID: B3H6R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	0.18	U	10.0	9.86		ug/L		99	77 - 131	0	20
Chloroform	0.24	J	10.0	10.3		ug/L		100	80 - 120	1	20
Chloromethane	0.10	U	10.0	9.81		ug/L		98	62 - 132	1	20
cis-1,2-Dichloroethylene	0.10	U	10.0	9.42		ug/L		94	80 - 120	1	20
Methylene Chloride	0.27	U	10.0	9.64		ug/L		96	80 - 120	1	20
Trichloroethene	0.25	U	10.0	9.87		ug/L		99	81 - 125	1	20
Vinyl chloride	0.19	U	10.0	11.3		ug/L		113	70 - 129	1	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	103		75 - 129								
4-Bromofluorobenzene (Surr)	86		81 - 130								
Dibromofluoromethane (Surr)	97		81 - 124								
Toluene-d8 (Surr)	92		87 - 128								

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-350061/1-A
Matrix: Water
Analysis Batch: 350529

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	25.0	U	100	25.0	ug/L		02/07/18 12:28	02/09/18 15:53	1
Calcium	300	U	1000	300	ug/L		02/07/18 12:28	02/09/18 15:53	1
Iron	30.0	U	100	30.0	ug/L		02/07/18 12:28	02/09/18 15:53	1
Magnesium	300	U	1000	300	ug/L		02/07/18 12:28	02/09/18 15:53	1
Potassium	1500	U	5000	1500	ug/L		02/07/18 12:28	02/09/18 15:53	1
Sodium	306.4	B	1000	300	ug/L		02/07/18 12:28	02/09/18 15:53	1

Lab Sample ID: LCS 160-350061/2-A
Matrix: Water
Analysis Batch: 350529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	200	201.2		ug/L		101	80 - 120
Calcium	10000	10860		ug/L		109	80 - 120
Iron	10000	10210		ug/L		102	80 - 120
Magnesium	10000	9884		ug/L		99	80 - 120
Potassium	10000	10180		ug/L		102	80 - 120
Sodium	10000	10460		ug/L		105	80 - 120

Lab Sample ID: 160-26607-B-1-B MS
Matrix: Water
Analysis Batch: 350529

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 350061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	62.5	B	200	258.9		ug/L		98	75 - 125
Calcium	71800		10000	83370	X	ug/L		116	75 - 125
Iron	317		10000	10410		ug/L		101	75 - 125
Magnesium	21200		10000	31280		ug/L		101	75 - 125
Potassium	8490		10000	18710		ug/L		102	75 - 125
Sodium	28000		10000	38300		ug/L		103	75 - 125

Lab Sample ID: 160-26607-B-1-C MSD
Matrix: Water
Analysis Batch: 350529

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 350061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Boron	62.5	B	200	263.0		ug/L		100	75 - 125	2	20
Calcium	71800		10000	82590	X	ug/L		108	75 - 125	1	20
Iron	317		10000	10390		ug/L		101	75 - 125	0	20
Magnesium	21200		10000	31100		ug/L		99	75 - 125	1	20
Potassium	8490		10000	18530		ug/L		100	75 - 125	1	20
Sodium	28000		10000	37740		ug/L		97	75 - 125	1	20

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-350065/1-A
Matrix: Water
Analysis Batch: 351406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U D	50.0	20.0	ug/L		02/07/18 12:30	02/15/18 15:50	2
Arsenic	4.0	U D	10.0	4.0	ug/L		02/07/18 12:30	02/15/18 15:50	2
Cadmium	0.20	U D	0.50	0.20	ug/L		02/07/18 12:30	02/15/18 15:50	2
Chromium	4.0	U D	10.0	4.0	ug/L		02/07/18 12:30	02/15/18 15:50	2
Cobalt	0.90	U D	2.0	0.90	ug/L		02/07/18 12:30	02/15/18 15:50	2
Copper	0.710	B D	1.0	0.40	ug/L		02/07/18 12:30	02/15/18 15:50	2
Manganese	0.90	U D	2.0	0.90	ug/L		02/07/18 12:30	02/15/18 15:50	2
Molybdenum	2.0	U D	5.0	2.0	ug/L		02/07/18 12:30	02/15/18 15:50	2
Nickel	2.0	U D	5.0	2.0	ug/L		02/07/18 12:30	02/15/18 15:50	2
Selenium	2.0	U D	5.0	2.0	ug/L		02/07/18 12:30	02/15/18 15:50	2
Uranium	0.40	U D	1.0	0.40	ug/L		02/07/18 12:30	02/15/18 15:50	2
Zinc	7.5	U D	20.0	7.5	ug/L		02/07/18 12:30	02/15/18 15:50	2

Lab Sample ID: LCS 160-350065/2-A
Matrix: Water
Analysis Batch: 351406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	10000	9366	D	ug/L		94	80 - 120
Arsenic	1000	947.8	D	ug/L		95	80 - 120
Cadmium	1000	967.0	D	ug/L		97	80 - 120
Chromium	1000	1025	D	ug/L		103	80 - 120
Cobalt	1000	1040	D	ug/L		104	80 - 120
Copper	1000	1035	D	ug/L		103	80 - 120
Manganese	1000	1030	D	ug/L		103	80 - 120
Molybdenum	500	511.2	D	ug/L		102	80 - 120
Nickel	1000	1068	D	ug/L		107	80 - 120
Selenium	500	430.7	D	ug/L		86	80 - 120
Uranium	1000	1015	D	ug/L		102	80 - 120
Zinc	1000	973.0	D	ug/L		97	80 - 120

Lab Sample ID: 160-26607-B-1-E MS
Matrix: Water
Analysis Batch: 351406

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 350065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	20.0	U D	10000	9397	D	ug/L		94	75 - 125
Arsenic	4.0	B D	1000	963.4	D	ug/L		96	75 - 125
Cadmium	0.27	B D	1000	965.5	D	ug/L		96	75 - 125
Chromium	68.9	D	1000	1064	D	ug/L		99	75 - 125
Cobalt	0.90	U D	1000	994.6	D	ug/L		99	75 - 125
Copper	6.0	D	1000	993.7	D	ug/L		99	75 - 125
Manganese	7.5	D	1000	1011	D	ug/L		100	75 - 125
Molybdenum	7.5	D	500	523.3	D	ug/L		103	75 - 125
Nickel	32.9	D	1000	1038	D	ug/L		101	75 - 125
Selenium	7.7	D	500	441.3	D	ug/L		87	75 - 125
Uranium	8.7	D	1000	1052	D	ug/L		104	75 - 125
Zinc	7.5	U D	1000	962.0	D	ug/L		96	75 - 125

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

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

Lab Sample ID: 160-26607-B-1-F MSD

Matrix: Water

Analysis Batch: 351406

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 350065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aluminum	20.0	U D	10000	9245	D	ug/L		92	75 - 125	2	20	
Arsenic	4.0	B D	1000	966.1	D	ug/L		96	75 - 125	0	20	
Cadmium	0.27	B D	1000	971.2	D	ug/L		97	75 - 125	1	20	
Chromium	68.9	D	1000	1066	D	ug/L		100	75 - 125	0	20	
Cobalt	0.90	U D	1000	1007	D	ug/L		101	75 - 125	1	20	
Copper	6.0	D	1000	1004	D	ug/L		100	75 - 125	1	20	
Manganese	7.5	D	1000	1022	D	ug/L		101	75 - 125	1	20	
Molybdenum	7.5	D	500	522.6	D	ug/L		103	75 - 125	0	20	
Nickel	32.9	D	1000	1028	D	ug/L		100	75 - 125	1	20	
Selenium	7.7	D	500	447.2	D	ug/L		88	75 - 125	1	20	
Uranium	8.7	D	1000	1031	D	ug/L		102	75 - 125	2	20	
Zinc	7.5	U D	1000	969.2	D	ug/L		97	75 - 125	1	20	

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-350645/1

Matrix: Water

Analysis Batch: 350645

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Alkalinity	0.54	U	5.0	0.54	mg/L			02/12/18 20:33	1
Bicarbonate Alkalinity as CaCO3	0.54	U	5.0	0.54	mg/L			02/12/18 20:33	1
Carbonate Alkalinity as CaCO3	0.54	U	5.0	0.54	mg/L			02/12/18 20:33	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			02/12/18 20:33	1

Lab Sample ID: HLCS 160-350645/3

Matrix: Water

Analysis Batch: 350645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	HLCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Alkalinity	400	384.0		mg/L		96	90 - 110	
Bicarbonate Alkalinity as CaCO3	400	384.0		mg/L		96	90 - 110	

Lab Sample ID: LCS 160-350645/2

Matrix: Water

Analysis Batch: 350645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Alkalinity	200	192.0		mg/L		96	90 - 110	
Bicarbonate Alkalinity as CaCO3	200	192.0		mg/L		96	90 - 110	

Lab Sample ID: 160-26608-1 MS

Matrix: Water

Analysis Batch: 350645

Client Sample ID: B3H6R3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Alkalinity	314		100	418.0		mg/L		104	80 - 120	
Bicarbonate Alkalinity as CaCO3	314		100	418.0		mg/L		104	80 - 120	

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
 SDG: SL2802

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: 160-26608-1 DU
 Matrix: Water
 Analysis Batch: 350645

Client Sample ID: B3H6R3
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	314		320.0		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	314		320.0		mg/L		2	20
Carbonate Alkalinity as CaCO3	0.54	U	0.54	U	mg/L		NC	20
Hydroxide Alkalinity	0.54	U	0.54	U	mg/L		NC	20



Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

GC/MS VOA

Analysis Batch: 350626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26608-1	B3H6R3	Total/NA	Water	8260C	
MB 160-350626/7	Method Blank	Total/NA	Water	8260C	
LCS 160-350626/4	Lab Control Sample	Total/NA	Water	8260C	
LCS D 160-350626/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-26608-1 MS	B3H6R3	Total/NA	Water	8260C	
160-26608-1 MSD	B3H6R3	Total/NA	Water	8260C	

Metals

Prep Batch: 350061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26608-1	B3H6R3	Total/NA	Water	3010A	
MB 160-350061/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-350061/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-26607-B-1-B MS	Matrix Spike	Total/NA	Water	3010A	
160-26607-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Prep Batch: 350065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26608-1	B3H6R3	Total/NA	Water	3010A	
MB 160-350065/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-350065/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-26607-B-1-E MS	Matrix Spike	Total/NA	Water	3010A	
160-26607-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 350529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-350061/1-A	Method Blank	Total/NA	Water	6010C	350061
LCS 160-350061/2-A	Lab Control Sample	Total/NA	Water	6010C	350061
160-26607-B-1-B MS	Matrix Spike	Total/NA	Water	6010C	350061
160-26607-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010C	350061

Analysis Batch: 351045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26608-1	B3H6R3	Total/NA	Water	6010C	350061

Analysis Batch: 351406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26608-1	B3H6R3	Total/NA	Water	6020A	350065
MB 160-350065/1-A	Method Blank	Total/NA	Water	6020A	350065
LCS 160-350065/2-A	Lab Control Sample	Total/NA	Water	6020A	350065
160-26607-B-1-E MS	Matrix Spike	Total/NA	Water	6020A	350065
160-26607-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	350065

Analysis Batch: 351588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26608-1	B3H6R3	Total/NA	Water	6020A	350065

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
SDG: SL2802

General Chemistry

Analysis Batch: 350645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26608-1	B3H6R3	Total/NA	Water	310.1	
MB 160-350645/1	Method Blank	Total/NA	Water	310.1	
HLCS 160-350645/3	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-350645/2	Lab Control Sample	Total/NA	Water	310.1	
160-26608-1 MS	B3H6R3	Total/NA	Water	310.1	
160-26608-1 DU	B3H6R3	Total/NA	Water	310.1	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F17-019

TestAmerica Job ID: 160-26608-1
 SDG: SL2802

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(75-129)	(81-130)	(81-124)	(87-128)
160-26608-1	B3H6R3	105	87	96	97
160-26608-1 MS	B3H6R3	105	85	99	93
160-26608-1 MSD	B3H6R3	103	86	97	92
LCS 160-350626/4	Lab Control Sample	102	89	96	95
LCSD 160-350626/5	Lab Control Sample Dup	99	90	97	96
MB 160-350626/7	Method Blank	102	92	95	98

Surrogate Legend

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

