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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 160-27469-1

TestAmerica Sample Delivery Group: SL2837
Client Project/Site: F12-024

For:

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

Attn: Mr. Scot Fitzgerald



Authorized for release by:
4/16/2018 4:36:01 PM

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



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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



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Chain of Custody	6
Definitions/Glossary	11
Method Summary	12
Sample Summary	13
Client Sample Results	14
QC Sample Results	16
QC Association Summary	19

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Job ID: 160-27469-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
April 16, 2018
Attention: Scot Fitzgerald

SDG	: SL2837
Number of Samples	: 3 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: March 23, 2018

II. Introduction

On March 23, 3 samples were 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: F12-024

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 non-conformance in the sections below.

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Job ID: 160-27469-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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.

ICPMS Metals

Batch: 358757

Iron was detected in method blank MB 160-357823/1-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".

The low level check (CCVL) was outside the upper QC limits for Copper. Associated samples which are below the reporting limit for the contaminant do not require re-analysis. Original results are reported. (CCVL 160-358757/62)

Batch: 359020

The LCS, MS, and MSD recovered above the linear range for Selenium. However, recoveries are within acceptable limits and results will be reported. (LCS 160-357823/2-A), (160-27463-A-2-F MS) and (160-27463-A-2-G MSD)

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

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Job ID: 160-27469-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

**ICP Metals
Mercury**

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

1
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7
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9
10

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-27469-1

SDG Number: SL2837

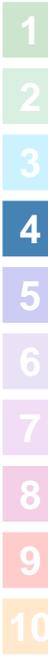
Login Number: 27469

List Source: TestAmerica St. Louis

List Number: 1

Creator: Clarke, Jill C

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	0.7
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F12-024-359	PAGE 1 OF 1
COLLECTOR Frank Hall /CHPRE SL2837		COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 30 Days	
SAMPLING LOCATION 100-HX Process Bldg 689 Eff Tank Valve T-H5 (V-H5A6AA)		PROJECT DESIGNATION 100-HX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT		SAF NO. F12-024	ORIGINAL	
ICE CHEST NO. CWS 749		FIELD LOGBOOK NO. HNE-NL 491 19/21	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 302845	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. 10.3/22/18 N/A 9220	BILL OF LADING/AIR BILL NO. 7718 14431824			

MATRIX* A=Air DL=Drum L=Liquid DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	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.	PRESERVATION	HNO3 to pH <2
		HOLDING TIME	28 Days
		TYPE OF CONTAINER	G/P
		NO. OF CONTAINER(S)	1
		VOLUME	500mL
SPECIAL HANDLING AND/OR STORAGE N/A		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3HXX1	N/A	WATER	MAR 22 2018	0922	✓

Page 7 of 20

04/18/2018

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-18-086;** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** The extraction wells associated with this SAF are all located at the Transfer Building.** The extraction wells associated with this SAF (1) 7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: COMMON {Antimony, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Iron, Manganese, Nickel, Uranium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Bismuth};	
Frank Hall /CHPRE	MAR 22 2018 1900	FEDEX			
	FED EX	Jill Clark, Jill Clark	3-23-18 0900		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME		

7 of 20
4/16/2018

REV.0



CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F12-024-354	PAGE 1 OF 1
COLLECTOR Frank Hall ICHPRC SL2837		COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 30 Days	
SAMPLING LOCATION 100-HX Process Bldg 689 Inf Tank Valve T-H3 (V-H3AA4)		PROJECT DESIGNATION 100-HX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT		SAF NO. F12-024	ORIGINAL	
ICE CHEST NO. 605-249		FIELD LOGBOOK NO. HNF-N-491 19/25	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 302845	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. 72 3-22-18 N/A 9220		BILL OF LADING/AIR BILL NO. 7718 1443 1824		

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	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.	PRESERVATION HNO3 to pH <2
	SPECIAL HANDLING AND/OR STORAGE N/A	HOLDING TIME 28 Days
		TYPE OF CONTAINER G/P
		NO. OF CONTAINER(S) 1
		VOLUME 500mL
		SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3HXW6	N/A	WATER	MAR 22 2018	0912	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM Frank Hall ICHPRC	DATE/TIME MAR 22 2018 19:00	SIGN/ PRINT NAMES RECEIVED BY/STORED IN FEDEX Jill Clarke Jid Clark	DATE/TIME 3-23-18 0900	SPECIAL INSTRUCTIONS TRVL-18-086;** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** The extraction wells associated with this SAF are all located at the Transfer Building.** The extraction wells associated with this SAF (1) 7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: COMMON {Antimony, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Iron, Manganese, Nickel, Uranium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Bismuth};
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FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME
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Page 8 of 20

8 of 20 4/16/2018

04/18/2018

REV.0



CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F12-024-364	PAGE 1 OF 1
COLLECTOR Frank Hill ICHPRS SL2837		COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 30 Days	
SAMPLING LOCATION 100-HX Process Bldg 689 Eff Tank Valve T-H5 (V-H5A6AA) FTB		PROJECT DESIGNATION 100-HX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT		SAF NO. F12-024	ORIGINAL	
ICE CHEST NO. GLX 749		FIELD LOGBOOK NO. INF-N-491 19/21	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 302845	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. 9220		BILL OF LADING/AIR BILL NO. 7718 1443 1824		

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	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.	PRESERVATION HNO3 to pH <2
		HOLDING TIME 28 Days
		TYPE OF CONTAINER G/P
		NO. OF CONTAINER(S) 1
		VOLUME 500mL
SPECIAL HANDLING AND/OR STORAGE N/A	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3HXX6	N/A	WATER	MAR 22 2018	0700	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM Frank Hill ICHPRS		DATE/TIME MAR 22 2018 1400	SIGN/ PRINT NAMES RECEIVED BY/STORED IN EDEX	DATE/TIME	SPECIAL INSTRUCTIONS TRVL-18-086;** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** The extraction wells associated with this SAF are all located at the Transfer Building.** The extraction wells associated with this SAF (1) 7470_MERCURY_CV: COMMON (AQUEOUS); 6020_METALS_ICPMS: COMMON {Antimony, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Iron, Manganese, Nickel, Uranium, Zinc}; 6010_METALS_ICP: COMMON (Add-on) {Bismuth};
FED EX		Jill Clarke Jill Clarke	3-23-18 0900		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

Page 9 of 20

9 of 20
4/16/2018

04/18/2018

REV.0





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Ship date:

Thu 3/22/2018

Richland, WA US

Actual delivery:

Fri 3/23/2018 8:50 am

EARTH CITY, MO US

Delivered

Signed for by: B.DANIELS

Travel History

Date/Time	Activity	Location
- 3/23/2018 - Friday		
8:50 am	Delivered	EARTH CITY, MO
6:51 am	On FedEx vehicle for delivery	EARTH CITY, MO
6:46 am	At local FedEx facility	EARTH CITY, MO
5:33 am	At destination sort facility	BERKELEY, MO
4:41 am	Departed FedEx location	MEMPHIS, TN
12:28 am	Arrived at FedEx location	MEMPHIS, TN
- 3/22/2018 - Thursday		
4:45 pm	Left FedEx origin facility	PASCO, WA
3:50 pm	Shipment information sent to FedEx	
3:16 pm	Picked up	PASCO, WA

Shipment Facts

Tracking Number	771814431824	Service	FedEx Priority Overnight
Weight	76 lbs / 34.47 kgs	Signature services	Direct signature required
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	76 lbs / 34.47 kgs	Terms	Third Party
Shipper reference	PTR#920 GWS-749	Packaging	Your Packaging
Special handling section	Deliver Weekday, Direct Signature Required	Standard transit	3/23/2018 by 10:30 am

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Client: CH2M Hill Plateau Remediation Company
 Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
 SDG: SL2837

Qualifiers

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL

Protocol References:

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: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-27469-1	B3HXX1	Water	03/22/18 09:22	03/23/18 09:00
160-27469-2	B3HXX6	Water	03/22/18 09:12	03/23/18 09:00
160-27469-3	B3HXX6	Water	03/22/18 07:00	03/23/18 09:00

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

04/18/2018
Client Sample Results

REV.0

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
 SDG: SL2837

Method: 6010C - Metals (ICP)

Client Sample ID: B3HXX1
Date Collected: 03/22/18 09:22
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth	50.0	U	200	50.0	ug/L		03/27/18 11:57	03/28/18 18:44	1

Client Sample ID: B3HXX6
Date Collected: 03/22/18 09:12
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth	50.0	U	200	50.0	ug/L		03/27/18 11:57	03/28/18 18:48	1

Client Sample ID: B3HXX6
Date Collected: 03/22/18 07:00
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth	50.0	U	200	50.0	ug/L		03/27/18 11:57	03/28/18 18:53	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3HXX1
Date Collected: 03/22/18 09:22
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 02:39	2
Arsenic	4.0	U D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 02:39	2
Barium	37.2	D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 02:39	2
Cadmium	0.20	U D	0.50	0.20	ug/L		03/27/18 12:03	04/04/18 02:39	2
Chromium	4.0	U D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 02:39	2
Copper	1.9	U D	3.0	1.9	ug/L		03/27/18 12:03	04/04/18 02:39	2
Iron	20.0	U D	50.0	20.0	ug/L		03/27/18 12:03	04/04/18 02:39	2
Lead	1.0	U D	3.0	1.0	ug/L		03/27/18 12:03	04/04/18 02:39	2
Manganese	0.90	U D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 02:39	2
Nickel	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 02:39	2
Selenium	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 19:32	2
Uranium	0.40	U D	1.0	0.40	ug/L		03/27/18 12:03	04/04/18 02:39	2
Zinc	7.5	U D	20.0	7.5	ug/L		03/27/18 12:03	04/04/18 02:39	2

Client Sample ID: B3HXX6
Date Collected: 03/22/18 09:12
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 02:45	2
Arsenic	4.0	U D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 02:45	2
Barium	37.5	D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 02:45	2
Cadmium	0.20	U D	0.50	0.20	ug/L		03/27/18 12:03	04/04/18 02:45	2
Chromium	15.8	D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 02:45	2
Copper	1.9	U D	3.0	1.9	ug/L		03/27/18 12:03	04/04/18 02:45	2
Iron	20.0	U D	50.0	20.0	ug/L		03/27/18 12:03	04/04/18 02:45	2
Lead	1.0	U D	3.0	1.0	ug/L		03/27/18 12:03	04/04/18 02:45	2
Manganese	0.90	U D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 02:45	2
Nickel	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 02:45	2
Selenium	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 19:39	2
Uranium	2.0	D	1.0	0.40	ug/L		03/27/18 12:03	04/04/18 02:45	2

TestAmerica St. Louis

04/18/2018
Client Sample Results

REV.0

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
 SDG: SL2837

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

Client Sample ID: B3HXW6
Date Collected: 03/22/18 09:12
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	7.5	U D	20.0	7.5	ug/L		03/27/18 12:03	04/04/18 02:45	2

Client Sample ID: B3HXX6
Date Collected: 03/22/18 07:00
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 03:12	2
Arsenic	4.0	U D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 03:12	2
Barium	0.90	U D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 03:12	2
Cadmium	0.20	U D	0.50	0.20	ug/L		03/27/18 12:03	04/04/18 03:12	2
Chromium	4.0	U D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 03:12	2
Copper	1.9	U D	3.0	1.9	ug/L		03/27/18 12:03	04/04/18 03:12	2
Iron	20.0	U D	50.0	20.0	ug/L		03/27/18 12:03	04/04/18 03:12	2
Lead	1.0	U D	3.0	1.0	ug/L		03/27/18 12:03	04/04/18 03:12	2
Manganese	0.90	U D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 03:12	2
Nickel	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 03:12	2
Selenium	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 19:46	2
Uranium	0.40	U D	1.0	0.40	ug/L		03/27/18 12:03	04/04/18 03:12	2
Zinc	7.5	U D	20.0	7.5	ug/L		03/27/18 12:03	04/04/18 03:12	2

Method: 7470A - Mercury (CVAA)

Client Sample ID: B3HXX1
Date Collected: 03/22/18 09:22
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		03/26/18 10:41	03/26/18 18:09	1

Client Sample ID: B3HXW6
Date Collected: 03/22/18 09:12
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		03/26/18 10:41	03/26/18 18:11	1

Client Sample ID: B3HXX6
Date Collected: 03/22/18 07:00
Date Received: 03/23/18 09:00

Lab Sample ID: 160-27469-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		03/26/18 10:41	03/26/18 18:13	1

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-357820/1-A
Matrix: Water
Analysis Batch: 358058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bismuth	50.0	U	200	50.0	ug/L		03/27/18 11:57	03/28/18 16:34	1

Lab Sample ID: LCS 160-357820/2-A
Matrix: Water
Analysis Batch: 358058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Bismuth	1000	984.9		ug/L		98	80 - 120

Lab Sample ID: 160-27463-A-2-C MS
Matrix: Water
Analysis Batch: 358058

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 357820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Bismuth	50.0	U	1000	999.8		ug/L		100	75 - 125

Lab Sample ID: 160-27463-A-2-D MSD
Matrix: Water
Analysis Batch: 358058

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 357820

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Bismuth	50.0	U	1000	1026		ug/L		103	75 - 125	3	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-357823/1-A
Matrix: Water
Analysis Batch: 358757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 00:45	2
Arsenic	4.0	U D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 00:45	2
Barium	0.90	U D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 00:45	2
Cadmium	0.20	U D	0.50	0.20	ug/L		03/27/18 12:03	04/04/18 00:45	2
Chromium	4.0	U D	10.0	4.0	ug/L		03/27/18 12:03	04/04/18 00:45	2
Copper	1.9	U D	3.0	1.9	ug/L		03/27/18 12:03	04/04/18 00:45	2
Iron	26.42	B D	50.0	20.0	ug/L		03/27/18 12:03	04/04/18 00:45	2
Lead	1.0	U D	3.0	1.0	ug/L		03/27/18 12:03	04/04/18 00:45	2
Manganese	0.90	U D	2.0	0.90	ug/L		03/27/18 12:03	04/04/18 00:45	2
Nickel	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 00:45	2
Uranium	0.40	U D	1.0	0.40	ug/L		03/27/18 12:03	04/04/18 00:45	2
Zinc	7.5	U D	20.0	7.5	ug/L		03/27/18 12:03	04/04/18 00:45	2

Lab Sample ID: MB 160-357823/1-A
Matrix: Water
Analysis Batch: 359020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	2.0	U D	5.0	2.0	ug/L		03/27/18 12:03	04/04/18 17:38	2

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Lab Sample ID: LCS 160-357823/2-A
Matrix: Water
Analysis Batch: 358757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357823
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	500	495.3	D	ug/L		99	80 - 120
Arsenic	1000	993.4	D	ug/L		99	80 - 120
Barium	1000	991.2	D	ug/L		99	80 - 120
Cadmium	1000	946.8	D	ug/L		95	80 - 120
Chromium	1000	972.4	D	ug/L		97	80 - 120
Copper	1000	1033	D	ug/L		103	80 - 120
Iron	10000	10350	D	ug/L		103	80 - 120
Lead	1000	995.2	D	ug/L		100	80 - 120
Manganese	1000	1012	D	ug/L		101	80 - 120
Nickel	1000	1076	D	ug/L		108	80 - 120
Uranium	1000	1007	D	ug/L		101	80 - 120
Zinc	1000	977.5	D	ug/L		98	80 - 120

Lab Sample ID: LCS 160-357823/2-A
Matrix: Water
Analysis Batch: 359020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357823
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Selenium	500	483.0	D	ug/L		97	80 - 120

Lab Sample ID: 160-27463-A-2-F MS
Matrix: Water
Analysis Batch: 358757

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 357823
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	2.0	U D	500	489.9	D	ug/L		98	75 - 125
Arsenic	4.0	U D	1000	1010	D	ug/L		101	75 - 125
Barium	0.90	U D	1000	985.0	D	ug/L		98	75 - 125
Cadmium	0.20	U D	1000	961.6	D	ug/L		96	75 - 125
Chromium	4.0	U D	1000	991.0	D	ug/L		99	75 - 125
Copper	1.9	U D	1000	1044	D	ug/L		104	75 - 125
Iron	20.0	U D	10000	10390	D	ug/L		104	75 - 125
Lead	1.0	U D	1000	1001	D	ug/L		100	75 - 125
Manganese	0.90	U D	1000	1030	D	ug/L		103	75 - 125
Nickel	2.0	U D	1000	1100	D	ug/L		110	75 - 125
Uranium	0.40	U D	1000	1017	D	ug/L		102	75 - 125
Zinc	7.5	U D	1000	991.9	D	ug/L		99	75 - 125

Lab Sample ID: 160-27463-A-2-F MS
Matrix: Water
Analysis Batch: 359020

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 357823
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Selenium	2.0	U D	500	506.1	D	ug/L		101	75 - 125

Lab Sample ID: 160-27463-A-2-G MSD
Matrix: Water
Analysis Batch: 358757

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 357823
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	2.0	U D	500	488.9	D	ug/L		98	75 - 125	0	20

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

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

Lab Sample ID: 160-27463-A-2-G MSD
Matrix: Water
Analysis Batch: 358757

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 357823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U D	1000	1022	D	ug/L		102	75 - 125	1	20
Barium	0.90	U D	1000	981.0	D	ug/L		98	75 - 125	0	20
Cadmium	0.20	U D	1000	963.6	D	ug/L		96	75 - 125	0	20
Chromium	4.0	U D	1000	989.2	D	ug/L		99	75 - 125	0	20
Copper	1.9	U D	1000	1055	D	ug/L		105	75 - 125	1	20
Iron	20.0	U D	10000	10400	D	ug/L		104	75 - 125	0	20
Lead	1.0	U D	1000	1007	D	ug/L		101	75 - 125	1	20
Manganese	0.90	U D	1000	1037	D	ug/L		104	75 - 125	1	20
Nickel	2.0	U D	1000	1101	D	ug/L		110	75 - 125	0	20
Uranium	0.40	U D	1000	1038	D	ug/L		104	75 - 125	2	20
Zinc	7.5	U D	1000	1009	D	ug/L		101	75 - 125	2	20

Lab Sample ID: 160-27463-A-2-G MSD
Matrix: Water
Analysis Batch: 359020

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 357823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	2.0	U D	500	506.6	D	ug/L		101	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-357650/1-A
Matrix: Water
Analysis Batch: 357693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		03/26/18 10:41	03/26/18 17:19	1

Lab Sample ID: LCS 160-357650/2-A
Matrix: Water
Analysis Batch: 357693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.90		ug/L		98	80 - 120

Lab Sample ID: 160-27463-A-1-B MS
Matrix: Water
Analysis Batch: 357693

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 357650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.060	U	5.00	5.00		ug/L		100	80 - 120

Lab Sample ID: 160-27463-A-1-C MSD
Matrix: Water
Analysis Batch: 357693

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 357650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.060	U	5.00	4.99		ug/L		100	80 - 120	0	20

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
SDG: SL2837

Metals

Prep Batch: 357650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-1	B3HXX1	Total/NA	Water	7470A	
160-27469-2	B3HXX6	Total/NA	Water	7470A	
160-27469-3	B3HXX6	Total/NA	Water	7470A	
MB 160-357650/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-357650/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-27463-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
160-27463-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 357693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-1	B3HXX1	Total/NA	Water	7470A	357650
160-27469-2	B3HXX6	Total/NA	Water	7470A	357650
160-27469-3	B3HXX6	Total/NA	Water	7470A	357650
MB 160-357650/1-A	Method Blank	Total/NA	Water	7470A	357650
LCS 160-357650/2-A	Lab Control Sample	Total/NA	Water	7470A	357650
160-27463-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	357650
160-27463-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	357650

Prep Batch: 357820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-1	B3HXX1	Total/NA	Water	3010A	
160-27469-2	B3HXX6	Total/NA	Water	3010A	
160-27469-3	B3HXX6	Total/NA	Water	3010A	
MB 160-357820/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-357820/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-27463-A-2-C MS	Matrix Spike	Dissolved	Water	3010A	
160-27463-A-2-D MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	

Prep Batch: 357823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-1	B3HXX1	Total/NA	Water	3010A	
160-27469-2	B3HXX6	Total/NA	Water	3010A	
160-27469-3	B3HXX6	Total/NA	Water	3010A	
MB 160-357823/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-357823/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-27463-A-2-F MS	Matrix Spike	Dissolved	Water	3010A	
160-27463-A-2-G MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	

Analysis Batch: 358058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-1	B3HXX1	Total/NA	Water	6010C	357820
160-27469-2	B3HXX6	Total/NA	Water	6010C	357820
160-27469-3	B3HXX6	Total/NA	Water	6010C	357820
MB 160-357820/1-A	Method Blank	Total/NA	Water	6010C	357820
LCS 160-357820/2-A	Lab Control Sample	Total/NA	Water	6010C	357820
160-27463-A-2-C MS	Matrix Spike	Dissolved	Water	6010C	357820
160-27463-A-2-D MSD	Matrix Spike Duplicate	Dissolved	Water	6010C	357820

Analysis Batch: 358757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-1	B3HXX1	Total/NA	Water	6020A	357823

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F12-024

TestAmerica Job ID: 160-27469-1
 SDG: SL2837

Metals (Continued)

Analysis Batch: 358757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-2	B3HXW6	Total/NA	Water	6020A	357823
160-27469-3	B3HXX6	Total/NA	Water	6020A	357823
MB 160-357823/1-A	Method Blank	Total/NA	Water	6020A	357823
LCS 160-357823/2-A	Lab Control Sample	Total/NA	Water	6020A	357823
160-27463-A-2-F MS	Matrix Spike	Dissolved	Water	6020A	357823
160-27463-A-2-G MSD	Matrix Spike Duplicate	Dissolved	Water	6020A	357823

Analysis Batch: 359020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-27469-1	B3HXX1	Total/NA	Water	6020A	357823
160-27469-2	B3HXW6	Total/NA	Water	6020A	357823
160-27469-3	B3HXX6	Total/NA	Water	6020A	357823
MB 160-357823/1-A	Method Blank	Total/NA	Water	6020A	357823
LCS 160-357823/2-A	Lab Control Sample	Total/NA	Water	6020A	357823
160-27463-A-2-F MS	Matrix Spike	Dissolved	Water	6020A	357823
160-27463-A-2-G MSD	Matrix Spike Duplicate	Dissolved	Water	6020A	357823

