July 13, 2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-98952-1
TestAmerica Sample Delivery Group: DN0170
Client Project/Site: W17-007

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

Attn: Mr. Scot Fitzgerald

Darlene Bandy

Authorized for release by:
7/13/2017 7:42:02 PM

Darlene Bandy, Project Manager I
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 280-98952-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: CH2M Hill Plateau Remediation Company

Job Number: 280-98952-1

SDG #: DN0170
SAF#(s): W17-007

Date SDG Closed: July 6, 2017
Data Deliverable: 30 Day / Summary

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

LCS/LCSD = Laboratory Control Sample/Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike/Matrix Spike Duplicate

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 7/6/2017 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 24.5º C.

DISSOLVED METALS (ICP)
Samples B3B4H1 (280-98952-1), B3B4F7 (280-98952-4) and B3B4F6 (280-98952-5) were analyzed for Dissolved Metals in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/10/2017 and analyzed on 07/10/2017 and 07/11/2017.

Magnesium, Manganese, Sodium and Vanadium were detected in method blank MB 280-380024/1-A at levels that were above the method detection limit (MDL) but below the reporting limit (RL). The values should be considered estimates, and have been flagged “B”. Because the concentrations in the method blank were not present at levels greater than half the RL, corrective action is deemed unnecessary. If the associated samples reported a result above the MDL and/or RL and the method blank concentration was greater than 5% of the sample concentration, the result has been flagged “C”.

No additional analytical or quality issues were noted.

TOTAL METALS (ICP)
Samples B3B862 (280-98952-2), B3B861 (280-98952-3) and B3B860 (280-98952-6) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 07/10/2017 and analyzed on 07/10/2017 and 07/11/2017.

Calcium, Iron, Manganese and Sodium were detected in method blank MB 280-380032/1-A at levels that were above the method detection limit (MDL) but below the reporting limit (RL). The values should be considered estimates, and have been flagged “B”. Because the concentrations in the method blank were not present at levels greater than half the RL, corrective action is deemed unnecessary. If the associated samples reported a result above the MDL and/or RL and the method blank concentration was greater than 5% of the sample concentration, the result has been flagged “C”.

No additional analytical or quality issues were noted.

Job ID: 280-98952-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

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:

Darlene Bandy
Project Manager

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 280-98952-1
SDG Number: DN0170

Login Number: 98952
List Number: 1
Creator: True, Joshua A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	24.5°C
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

12165

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W17-007-233 Page 1 of 1

Collector Daniel Klug CHPRC	DN0170	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W17-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, July 2017	Logbook No.	HNF-N-506 94/1	Ice Chest No.	GWS-650
Shipped To (Lab)	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7795 6034 0552
Protocol	RCRA	Priority: 30 Days	PRIORITY	Offsite Property No.	8146

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3B4H1	Y	W	JUL 05 2017	1208	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2
B3B862	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2

280-98952 Chain of Custody

~~24.1~~ +0.0 IR #7 transfered by JT 7/6/17
24.5 O.B. 7-6-17

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Daniel Klug CHPRC	D. Klug		JUL 05 2017 1233	Lesly Wall /CHPRC	Lesly Wall		JUL 05 2017 1233
Lesly Wall /CHPRC	Lesly Wall		JUL 05 2017 1400	FEDEX			
FedEx				Josh True	Josh T		7/6/17 0850

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 ON 5/23/2017 FSR ID = FSR45624 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W17-007-226
		Page 1 of 1

Collector Daniel Klug CHPRC	DN0170	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W17-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, July 2017	Logbook No.	HNF-N-506 94/1	Ice Chest No.	GWS-650
Shipped To (Lab)	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7795 6034 0552
Protocol	RCRA	Priority: 30 Days	PRIORITY	Offsite Property No.	8146

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

N/A

Sample No	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3B861	N	W	JUL 05 2017	1127	1x500-mL G/P	6010_METALS_ICP. COMMON	6 Months	HNO3 to pH <2
B3B4F7	Y	W	↓	↓	1x500-mL G/P	6010_METALS_ICP. COMMON	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Daniel Klug CHPRC	D. Klug		JUL 05 2017 1137	Lesly Wall /CHPRC	Lesly Wall		JUL 05 2017 1137
Relinquished By Lesly Wall /CHPRC	Lesly Wall		JUL 05 2017 1400	Received By	FEDEX		Date/Time
Relinquished By	FedEx		Date/Time	Received By	Josh True		7/6/17 0850
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

PRINTED ON 5/23/2017 FSR ID = FSR39241 A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W17-007-227 Page 1 of 1

Collector	Daniel Klug CHPRC DN0170	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W17-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, July 2017	Logbook No.	HNF-N-506 921 / 1	Ice Chest No.	GWS-650
Shipped To (Lab)	TestAmerica Denver	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	779560340552
Protocol	RCRA	Priority:	30 Days PRIORITY	Offsite Property No.	8146

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3B4F6	Y	W	JUL 05 2017	1127	1x500-mL G/P	6010_METALS_ICP: COMMON	6 Months	HNO3 to pH <2
B3B860	N	W	"	"	1x500-mL G/P	6010_METALS_ICP. COMMON	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Daniel Klug CHPRC	D. Klug		JUL 05 2017 1137	Lesly Wall /CHPRC	Lesly Wall		JUL 05 2017 1137
Lesly Wall /CHPRC	Lesly Wall		JUL 05 2017 1400	FEDEX			
FedEx				Josh True	Josh T		7/6/17 0850

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 ON 5/23/2017 FSR ID = FSR39241 A-6004-842 (REV 2)

1 2 3 4 5 6 7 8 9 10

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779560340552

Ship date:		Actual delivery:
Wed 7/05/2017		**Thu 7/06/2017 8:51 am**
Richland, WA US	**Delivered** *Signed for by: J.TRUE*	ARVADA, CO US

Travel History

Date/Time	Activity	Location
- 7/06/2017 - Thursday		
8:51 am	Delivered	ARVADA, CO
8:34 am	On FedEx vehicle for delivery	ARVADA, CO
7:54 am	At local FedEx facility	ARVADA, CO
5:30 am	At destination sort facility	DENVER, CO
4:30 am	Departed FedEx location	MEMPHIS, TN
12:33 am	Arrived at FedEx location	MEMPHIS, TN
- 7/05/2017 - Wednesday		
4:56 pm	Left FedEx origin facility	PASCO, WA
3:19 pm	Picked up	PASCO, WA
3:09 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	779560340552	**Service**	FedEx Priority Overnight
Weight	12 lbs / 5.44 kgs	**Dimensions**	15x13x10 in.
Signature services	Direct signature required	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	12 lbs / 5.44 kgs
Terms	Third Party	**Shipper reference**	ptr# 8146
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge, Direct Signature Required
Standard transit	7/06/2017 by 10:30 am		

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Qualifiers

Metals

Qualifier	Qualifier Description
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 </= 5X the blank concentration.

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)

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W17-007

TestAmerica Job ID: 280-98952-1
SDG: DN0170

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W17-007

TestAmerica Job ID: 280-98952-1
SDG: DN0170

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-98952-1	B3B4H1	Water	07/05/17 12:08	07/06/17 08:50
280-98952-2	B3B862	Water	07/05/17 12:08	07/06/17 08:50
280-98952-3	B3B861	Water	07/05/17 11:27	07/06/17 08:50
280-98952-4	B3B4F7	Water	07/05/17 11:27	07/06/17 08:50
280-98952-5	B3B4F6	Water	07/05/17 11:27	07/06/17 08:50
280-98952-6	B3B860	Water	07/05/17 11:27	07/06/17 08:50

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W17-007

TestAmerica Job ID: 280-98952-1
SDG: DN0170

Method: 6010C - Metals (ICP)

Client Sample ID: B3B862 — **Lab Sample ID: 280-98952-2**
Date Collected: 07/05/17 12:08 — **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 21:04	1
Arsenic	4.4	U	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 21:04	1
Barium	**40.9**		10.0	0.82	ug/L		07/10/17 13:15	07/10/17 21:04	1
Cadmium	**0.88**	**B**	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 21:04	1
Calcium	**35500**		200	34.5	ug/L		07/10/17 13:15	07/10/17 21:04	1
Chromium	**6.5**	**B**	10.0	0.66	ug/L		07/10/17 13:15	07/10/17 21:04	1
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 21:04	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 21:04	1
Iron	**175**	**C**	100	22.0	ug/L		07/10/17 13:15	07/10/17 21:04	1
Magnesium	**11900**		200	10.7	ug/L		07/10/17 13:15	07/10/17 21:04	1
Manganese	**7.4**	**B**	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 21:04	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 21:04	1
Potassium	**4070**		3000	237	ug/L		07/10/17 13:15	07/10/17 21:04	1
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 13:11	1
Sodium	**23200**		1000	117	ug/L		07/10/17 13:15	07/10/17 21:04	1
Vanadium	**25.1**		10.0	1.1	ug/L		07/10/17 13:15	07/10/17 21:04	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/10/17 21:04	1

Client Sample ID: B3B861 — **Lab Sample ID: 280-98952-3**
Date Collected: 07/05/17 11:27 — **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 21:16	1
Arsenic	4.4	U	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 21:16	1
Barium	**67.3**		10.0	0.82	ug/L		07/10/17 13:15	07/10/17 21:16	1
Cadmium	0.45	U	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 21:16	1
Calcium	**58000**		200	34.5	ug/L		07/10/17 13:15	07/10/17 21:16	1
Chromium	**20.1**		10.0	0.66	ug/L		07/10/17 13:15	07/10/17 21:16	1
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 21:16	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 21:16	1
Iron	**272**	**C**	100	22.0	ug/L		07/10/17 13:15	07/10/17 21:16	1
Magnesium	**18800**		200	10.7	ug/L		07/10/17 13:15	07/10/17 21:16	1
Manganese	**4.4**	**B C**	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 21:16	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 21:16	1
Potassium	**4950**		3000	237	ug/L		07/10/17 13:15	07/10/17 21:16	1
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 13:23	1
Sodium	**27000**		1000	117	ug/L		07/10/17 13:15	07/10/17 21:16	1
Vanadium	**20.8**		10.0	1.1	ug/L		07/10/17 13:15	07/10/17 21:16	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/10/17 21:16	1

Client Sample ID: B3B860 — **Lab Sample ID: 280-98952-6**
Date Collected: 07/05/17 11:27 — **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 21:19	1
Arsenic	4.4	U	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 21:19	1
Barium	**66.2**		10.0	0.82	ug/L		07/10/17 13:15	07/10/17 21:19	1
Cadmium	**0.95**	**B**	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 21:19	1
Calcium	**56500**		200	34.5	ug/L		07/10/17 13:15	07/10/17 21:19	1
Chromium	**19.7**		10.0	0.66	ug/L		07/10/17 13:15	07/10/17 21:19	1

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

Client Sample ID: B3B860 — **Lab Sample ID: 280-98952-6**
Date Collected: 07/05/17 11:27 — **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 21:19	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 21:19	1
Iron	**221**	**C**	100	22.0	ug/L		07/10/17 13:15	07/10/17 21:19	1
Magnesium	**18400**		200	10.7	ug/L		07/10/17 13:15	07/10/17 21:19	1
Manganese	**3.8**	**B C**	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 21:19	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 21:19	1
Potassium	**4880**		3000	237	ug/L		07/10/17 13:15	07/10/17 21:19	1
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 13:26	1
Sodium	**26000**		1000	117	ug/L		07/10/17 13:15	07/10/17 21:19	1
Vanadium	**20.3**		10.0	1.1	ug/L		07/10/17 13:15	07/10/17 21:19	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/10/17 21:19	1

Method: 6010C - Metals (ICP) - Dissolved

Client Sample ID: B3B4H1 — **Lab Sample ID: 280-98952-1**
Date Collected: 07/05/17 12:08 — **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 20:32	1
Arsenic	4.4	U	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 20:32	1
Barium	**41.2**		10.0	0.82	ug/L		07/10/17 13:15	07/10/17 20:32	1
Cadmium	0.45	U	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 20:32	1
Calcium	**36400**		200	34.5	ug/L		07/10/17 13:15	07/10/17 20:32	1
Chromium	**5.5**	**B**	10.0	0.66	ug/L		07/10/17 13:15	07/10/17 20:32	1
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 20:32	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 20:32	1
Iron	22.0	U	100	22.0	ug/L		07/10/17 13:15	07/10/17 20:32	1
Magnesium	**12300**		200	10.7	ug/L		07/10/17 13:15	07/10/17 20:32	1
Manganese	**0.39**	**B C**	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 20:32	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 20:32	1
Potassium	**4160**		3000	237	ug/L		07/10/17 13:15	07/10/17 20:32	1
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 12:39	1
Sodium	**23900**		1000	117	ug/L		07/10/17 13:15	07/10/17 20:32	1
Vanadium	**23.8**	**C**	10.0	1.1	ug/L		07/10/17 13:15	07/10/17 20:32	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/11/17 12:39	1

Client Sample ID: B3B4F7 — **Lab Sample ID: 280-98952-4**
Date Collected: 07/05/17 11:27 — **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 20:44	1
Arsenic	**6.4**	**B**	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 20:44	1
Barium	**66.3**		10.0	0.82	ug/L		07/10/17 13:15	07/10/17 20:44	1
Cadmium	**0.55**	**B**	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 20:44	1
Calcium	**57800**		200	34.5	ug/L		07/10/17 13:15	07/10/17 20:44	1
Chromium	**19.2**		10.0	0.66	ug/L		07/10/17 13:15	07/10/17 20:44	1
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 20:44	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 20:44	1
Iron	22.0	U	100	22.0	ug/L		07/10/17 13:15	07/10/17 20:44	1
Magnesium	**19200**		200	10.7	ug/L		07/10/17 13:15	07/10/17 20:44	1

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

Client Sample ID: B3B4F7 **Lab Sample ID: 280-98952-4**
Date Collected: 07/05/17 11:27 **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.62**	**B C**	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 20:44	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 20:44	1
Potassium	**4890**		3000	237	ug/L		07/10/17 13:15	07/10/17 20:44	1
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 12:51	1
Sodium	**27000**		1000	117	ug/L		07/10/17 13:15	07/10/17 20:44	1
Vanadium	**20.4**	**C**	10.0	1.1	ug/L		07/10/17 13:15	07/10/17 20:44	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/11/17 12:51	1

Client Sample ID: B3B4F6 **Lab Sample ID: 280-98952-5**
Date Collected: 07/05/17 11:27 **Matrix: Water**
Date Received: 07/06/17 08:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 20:47	1
Arsenic	**8.1**	**B**	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 20:47	1
Barium	**66.4**		10.0	0.82	ug/L		07/10/17 13:15	07/10/17 20:47	1
Cadmium	**0.53**	**B**	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 20:47	1
Calcium	**57800**		200	34.5	ug/L		07/10/17 13:15	07/10/17 20:47	1
Chromium	**19.6**		10.0	0.66	ug/L		07/10/17 13:15	07/10/17 20:47	1
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 20:47	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 20:47	1
Iron	22.0	U	100	22.0	ug/L		07/10/17 13:15	07/10/17 20:47	1
Magnesium	**19500**		200	10.7	ug/L		07/10/17 13:15	07/10/17 20:47	1
Manganese	0.26	U	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 20:47	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 20:47	1
Potassium	**4920**		3000	237	ug/L		07/10/17 13:15	07/10/17 20:47	1
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 12:54	1
Sodium	**27000**		1000	117	ug/L		07/10/17 13:15	07/10/17 20:47	1
Vanadium	**20.7**	**C**	10.0	1.1	ug/L		07/10/17 13:15	07/10/17 20:47	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/11/17 12:54	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-380032/1-A
Matrix: Water
Analysis Batch: 380362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 20:59	1
Arsenic	4.4	U	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 20:59	1
Barium	0.82	U	10.0	0.82	ug/L		07/10/17 13:15	07/10/17 20:59	1
Cadmium	0.45	U	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 20:59	1
Calcium	41.89	B	200	34.5	ug/L		07/10/17 13:15	07/10/17 20:59	1
Chromium	0.66	U	10.0	0.66	ug/L		07/10/17 13:15	07/10/17 20:59	1
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 20:59	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 20:59	1
Iron	34.82	B	100	22.0	ug/L		07/10/17 13:15	07/10/17 20:59	1
Magnesium	10.7	U	200	10.7	ug/L		07/10/17 13:15	07/10/17 20:59	1
Manganese	0.310	B	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 20:59	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 20:59	1
Potassium	237	U	3000	237	ug/L		07/10/17 13:15	07/10/17 20:59	1
Sodium	154.6	B	1000	117	ug/L		07/10/17 13:15	07/10/17 20:59	1
Vanadium	1.1	U	10.0	1.1	ug/L		07/10/17 13:15	07/10/17 20:59	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/10/17 20:59	1

Lab Sample ID: MB 280-380032/1-A
Matrix: Water
Analysis Batch: 380503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 380032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 13:06	1

Lab Sample ID: LCS 280-380032/2-A
Matrix: Water
Analysis Batch: 380362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 380032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	506.1		ug/L		101	80 - 120
Arsenic	1000	1010		ug/L		101	80 - 120
Barium	2000	1921		ug/L		96	80 - 120
Cadmium	100	106.4		ug/L		106	80 - 120
Calcium	50000	47000		ug/L		94	80 - 120
Chromium	200	195.0		ug/L		97	80 - 120
Cobalt	500	479.4		ug/L		96	80 - 120
Copper	250	244.4		ug/L		98	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Magnesium	50000	47320		ug/L		95	80 - 120
Manganese	500	475.3		ug/L		95	80 - 120
Nickel	500	475.0		ug/L		95	80 - 120
Potassium	50000	47860		ug/L		96	80 - 120
Sodium	50000	49740		ug/L		99	80 - 120
Vanadium	500	459.4		ug/L		92	80 - 120
Zinc	500	472.1		ug/L		94	80 - 120

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

Lab Sample ID: LCS 280-380032/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 380503 — **Prep Batch: 380032**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	55.55		ug/L		111	80 - 120

Lab Sample ID: 280-98952-2 MS — **Client Sample ID: B3B862**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 380362 — **Prep Batch: 380032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.2	U	500	518.4		ug/L		104	75 - 125
Arsenic	4.4	U	1000	1032		ug/L		103	75 - 125
Barium	40.9		2000	1990		ug/L		97	75 - 125
Cadmium	0.88	B	100	108.5		ug/L		108	75 - 125
Calcium	35500		50000	83550		ug/L		96	75 - 125
Chromium	6.5	B	200	202.0		ug/L		98	75 - 125
Cobalt	1.2	U	500	480.4		ug/L		96	75 - 125
Copper	4.2	U	250	247.9		ug/L		99	75 - 125
Iron	175	C	1000	1191		ug/L		102	75 - 125
Magnesium	11900		50000	59260		ug/L		95	75 - 125
Manganese	7.4	B	500	481.1		ug/L		95	75 - 125
Nickel	2.6	U	500	477.8		ug/L		96	75 - 125
Potassium	4070		50000	52400		ug/L		97	75 - 125
Sodium	23200		50000	73190		ug/L		100	75 - 125
Vanadium	25.1		500	487.1		ug/L		92	75 - 125
Zinc	4.5	U	500	475.5		ug/L		95	75 - 125

Lab Sample ID: 280-98952-2 MS — **Client Sample ID: B3B862**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 380503 — **Prep Batch: 380032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.93	U	50.0	55.50		ug/L		111	75 - 125

Lab Sample ID: 280-98952-2 MSD — **Client Sample ID: B3B862**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 380362 — **Prep Batch: 380032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.2	U	500	513.2		ug/L		103	75 - 125	1	20
Arsenic	4.4	U	1000	1033		ug/L		103	75 - 125	0	20
Barium	40.9		2000	2004		ug/L		98	75 - 125	1	20
Cadmium	0.88	B	100	108.0		ug/L		107	75 - 125	0	20
Calcium	35500		50000	83960		ug/L		97	75 - 125	0	20
Chromium	6.5	B	200	204.0		ug/L		99	75 - 125	1	20
Cobalt	1.2	U	500	480.8		ug/L		96	75 - 125	0	20
Copper	4.2	U	250	249.3		ug/L		100	75 - 125	1	20
Iron	175	C	1000	1169		ug/L		99	75 - 125	2	20
Magnesium	11900		50000	59610		ug/L		95	75 - 125	1	20
Manganese	7.4	B	500	483.9		ug/L		95	75 - 125	1	20
Nickel	2.6	U	500	478.5		ug/L		96	75 - 125	0	20
Potassium	4070		50000	52590		ug/L		97	75 - 125	0	20

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

Lab Sample ID: 280-98952-2 MSD — **Client Sample ID: B3B862**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 380362 — **Prep Batch: 380032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	23200		50000	73400		ug/L		100	75 - 125	0	20
Vanadium	25.1		500	489.2		ug/L		93	75 - 125	0	20
Zinc	4.5	U	500	476.8		ug/L		95	75 - 125	0	20

Lab Sample ID: 280-98952-2 MSD — **Client Sample ID: B3B862**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 380503 — **Prep Batch: 380032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.93	U	50.0	56.11		ug/L		112	75 - 125	1	20

Lab Sample ID: MB 280-380024/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 380362 — **Prep Batch: 380024**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.2	U	20.0	5.2	ug/L		07/10/17 13:15	07/10/17 20:27	1
Arsenic	4.4	U	15.0	4.4	ug/L		07/10/17 13:15	07/10/17 20:27	1
Barium	0.82	U	10.0	0.82	ug/L		07/10/17 13:15	07/10/17 20:27	1
Cadmium	0.45	U	5.0	0.45	ug/L		07/10/17 13:15	07/10/17 20:27	1
Calcium	34.5	U	200	34.5	ug/L		07/10/17 13:15	07/10/17 20:27	1
Chromium	0.66	U	10.0	0.66	ug/L		07/10/17 13:15	07/10/17 20:27	1
Cobalt	1.2	U	10.0	1.2	ug/L		07/10/17 13:15	07/10/17 20:27	1
Copper	4.2	U	15.0	4.2	ug/L		07/10/17 13:15	07/10/17 20:27	1
Iron	22.0	U	100	22.0	ug/L		07/10/17 13:15	07/10/17 20:27	1
Magnesium	91.58	B	200	10.7	ug/L		07/10/17 13:15	07/10/17 20:27	1
Manganese	2.70	B	10.0	0.26	ug/L		07/10/17 13:15	07/10/17 20:27	1
Nickel	2.6	U	40.0	2.6	ug/L		07/10/17 13:15	07/10/17 20:27	1
Potassium	237	U	3000	237	ug/L		07/10/17 13:15	07/10/17 20:27	1
Sodium	132.3	B	1000	117	ug/L		07/10/17 13:15	07/10/17 20:27	1
Vanadium	1.40	B	10.0	1.1	ug/L		07/10/17 13:15	07/10/17 20:27	1

Lab Sample ID: MB 280-380024/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 380503 — **Prep Batch: 380024**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.93	U	10.0	0.93	ug/L		07/10/17 13:15	07/11/17 12:34	1
Zinc	4.5	U	20.0	4.5	ug/L		07/10/17 13:15	07/11/17 12:34	1

Lab Sample ID: LCS 280-380024/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 380362 — **Prep Batch: 380024**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	534.7		ug/L		107	80 - 120
Arsenic	1000	1072		ug/L		107	80 - 120
Barium	2000	1991		ug/L		100	80 - 120
Cadmium	100	113.4		ug/L		113	80 - 120

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

Lab Sample ID: LCS 280-380024/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 380362 — **Prep Batch: 380024**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	50000	48590		ug/L		97	80 - 120
Chromium	200	201.9		ug/L		101	80 - 120
Cobalt	500	498.7		ug/L		100	80 - 120
Copper	250	254.5		ug/L		102	80 - 120
Iron	1000	1023		ug/L		102	80 - 120
Magnesium	50000	49620		ug/L		99	80 - 120
Manganese	500	491.1		ug/L		98	80 - 120
Nickel	500	498.2		ug/L		100	80 - 120
Potassium	50000	49550		ug/L		99	80 - 120
Sodium	50000	51960		ug/L		104	80 - 120
Vanadium	500	472.1		ug/L		94	80 - 120

Lab Sample ID: LCS 280-380024/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 380503 — **Prep Batch: 380024**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	56.70		ug/L		113	80 - 120
Zinc	500	524.8		ug/L		105	80 - 120

Lab Sample ID: 280-98952-1 MS — **Client Sample ID: B3B4H1**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 380362 — **Prep Batch: 380024**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	5.2	U	500	525.4		ug/L		105	75 - 125
Arsenic	4.4	U	1000	1057		ug/L		106	75 - 125
Barium	41.2		2000	2001		ug/L		98	75 - 125
Cadmium	0.45	U	100	110.6		ug/L		111	75 - 125
Calcium	36400		50000	83700		ug/L		95	75 - 125
Chromium	5.5	B	200	202.7		ug/L		99	75 - 125
Cobalt	1.2	U	500	482.4		ug/L		96	75 - 125
Copper	4.2	U	250	252.9		ug/L		101	75 - 125
Iron	22.0	U	1000	995.8		ug/L		100	75 - 125
Magnesium	12300		50000	60520		ug/L		96	75 - 125
Manganese	0.39	B C	500	478.7		ug/L		96	75 - 125
Nickel	2.6	U	500	480.5		ug/L		96	75 - 125
Potassium	4160		50000	52480		ug/L		97	75 - 125
Sodium	23900		50000	73380		ug/L		99	75 - 125
Vanadium	23.8	C	500	486.8		ug/L		93	75 - 125

Lab Sample ID: 280-98952-1 MS — **Client Sample ID: B3B4H1**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 380503 — **Prep Batch: 380024**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.93	U	50.0	55.81		ug/L		112	75 - 125
Zinc	4.5	U	500	514.8		ug/L		103	75 - 125

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

Lab Sample ID: 280-98952-1 MSD **Client Sample ID: B3B4H1**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 380362 **Prep Batch: 380024**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	5.2	U	500	532.3		ug/L		106	75 - 125	1	20
Arsenic	4.4	U	1000	1078		ug/L		108	75 - 125	2	20
Barium	41.2		2000	2036		ug/L		100	75 - 125	2	20
Cadmium	0.45	U	100	112.0		ug/L		112	75 - 125	1	20
Calcium	36400		50000	84370		ug/L		96	75 - 125	1	20
Chromium	5.5	B	200	205.1		ug/L		100	75 - 125	1	20
Cobalt	1.2	U	500	490.6		ug/L		98	75 - 125	2	20
Copper	4.2	U	250	255.2		ug/L		102	75 - 125	1	20
Iron	22.0	U	1000	1024		ug/L		102	75 - 125	3	20
Magnesium	12300		50000	61140		ug/L		98	75 - 125	1	20
Manganese	0.39	B C	500	486.8		ug/L		97	75 - 125	2	20
Nickel	2.6	U	500	489.1		ug/L		98	75 - 125	2	20
Potassium	4160		50000	53460		ug/L		99	75 - 125	2	20
Sodium	23900		50000	74320		ug/L		101	75 - 125	1	20
Vanadium	23.8	C	500	494.3		ug/L		94	75 - 125	2	20

Lab Sample ID: 280-98952-1 MSD **Client Sample ID: B3B4H1**
Matrix: Water **Prep Type: Dissolved**
Analysis Batch: 380503 **Prep Batch: 380024**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.93	U	50.0	57.41		ug/L		115	75 - 125	3	20
Zinc	4.5	U	500	514.8		ug/L		103	75 - 125	0	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W17-007

TestAmerica Job ID: 280-98952-1
SDG: DN0170

Metals

Prep Batch: 380024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98952-1	B3B4H1	Dissolved	Water	3005A	
280-98952-4	B3B4F7	Dissolved	Water	3005A	
280-98952-5	B3B4F6	Dissolved	Water	3005A	
MB 280-380024/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-380024/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-98952-1 MS	B3B4H1	Dissolved	Water	3005A	
280-98952-1 MSD	B3B4H1	Dissolved	Water	3005A	

Prep Batch: 380032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98952-2	B3B862	Total/NA	Water	3010A	
280-98952-3	B3B861	Total/NA	Water	3010A	
280-98952-6	B3B860	Total/NA	Water	3010A	
MB 280-380032/1-A	Method Blank	Total/NA	Water	3010A	
LCS 280-380032/2-A	Lab Control Sample	Total/NA	Water	3010A	
280-98952-2 MS	B3B862	Total/NA	Water	3010A	
280-98952-2 MSD	B3B862	Total/NA	Water	3010A	

Analysis Batch: 380362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98952-1	B3B4H1	Dissolved	Water	6010C	380024
280-98952-2	B3B862	Total/NA	Water	6010C	380032
280-98952-3	B3B861	Total/NA	Water	6010C	380032
280-98952-4	B3B4F7	Dissolved	Water	6010C	380024
280-98952-5	B3B4F6	Dissolved	Water	6010C	380024
280-98952-6	B3B860	Total/NA	Water	6010C	380032
MB 280-380024/1-A	Method Blank	Total Recoverable	Water	6010C	380024
MB 280-380032/1-A	Method Blank	Total/NA	Water	6010C	380032
LCS 280-380024/2-A	Lab Control Sample	Total Recoverable	Water	6010C	380024
LCS 280-380032/2-A	Lab Control Sample	Total/NA	Water	6010C	380032
280-98952-1 MS	B3B4H1	Dissolved	Water	6010C	380024
280-98952-1 MSD	B3B4H1	Dissolved	Water	6010C	380024
280-98952-2 MS	B3B862	Total/NA	Water	6010C	380032
280-98952-2 MSD	B3B862	Total/NA	Water	6010C	380032

Analysis Batch: 380503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-98952-1	B3B4H1	Dissolved	Water	6010C	380024
280-98952-2	B3B862	Total/NA	Water	6010C	380032
280-98952-3	B3B861	Total/NA	Water	6010C	380032
280-98952-4	B3B4F7	Dissolved	Water	6010C	380024
280-98952-5	B3B4F6	Dissolved	Water	6010C	380024
280-98952-6	B3B860	Total/NA	Water	6010C	380032
MB 280-380024/1-A	Method Blank	Total Recoverable	Water	6010C	380024
MB 280-380032/1-A	Method Blank	Total/NA	Water	6010C	380032
LCS 280-380024/2-A	Lab Control Sample	Total Recoverable	Water	6010C	380024
LCS 280-380032/2-A	Lab Control Sample	Total/NA	Water	6010C	380032
280-98952-1 MS	B3B4H1	Dissolved	Water	6010C	380024
280-98952-1 MSD	B3B4H1	Dissolved	Water	6010C	380024
280-98952-2 MS	B3B862	Total/NA	Water	6010C	380032
280-98952-2 MSD	B3B862	Total/NA	Water	6010C	380032