

May 14, 2014

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352



May 14, 2014

Scot Fitzgerald
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Scot Fitzgerald,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF140701

Reference: (1) SOW, Mod 2, #36587, Release 3
(2) MSC-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Program Plan

This letter contains the following information for sample delivery group WSCF140701

- * Cover Sheet (Attachment 1)
- * Narrative (Attachment 2)
- * Analytical Results (Attachment 3)
- * Sample Receipt Information (Attachment 4)

Very truly yours,

A handwritten signature in black ink, appearing to read "Joseph Hale", is positioned above the typed name.

Electronically signed by Joseph Hale

For Lab Manager, Dan T. Smith

WSCF Analytical Lab

(509) 373-4804

Attachments 4

CC: w/Attachments

File/LB

May 14, 2014

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF140701
Data Deliverable Date 05/19/14

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
I14-022	B2W748	140701001	WATER	04/17/14	04/17/14
I14-022	B2W717	140701002	WATER	04/17/14	04/17/14
I14-022	B2W720	140701003	WATER	04/17/14	04/17/14
I14-022	B2W758	140701004	WATER	04/17/14	04/17/14
I14-022	B2W759	140701005	WATER	04/17/14	04/17/14
I14-022	B2W743	140701006	WATER	04/17/14	04/17/14
I14-022	B2W745	140701007	WATER	04/17/14	04/17/14
I14-022	B2W752	140701008	WATER	04/17/14	04/17/14
I14-022	B2W753	140701009	WATER	04/17/14	04/17/14
I14-022	B2W739	140701010	WATER	04/17/14	04/17/14

ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Introduction

Samples were received at the WSCF laboratory as referenced on the WSCF SAF Number Cross Reference table included in the final report. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Statement of Work (SOW)*, to Contract 39818, Revision 4, "WSCF ANALYTICAL SERVICES FOR GROUNDWATER."

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was not stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving. However, based on procedure LO-090-403 form "NOTICE OF IMPROPER SAMPLE SUBMITTAL" was not submitted and was not stamped "NOT ICED". No anomaly was noted during sample receipt.

The following generic data qualifiers (i.e., B, C, D, J and U) may be applicable to this report, as appropriate.

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **C** – Analyte was detected in the blank and was evaluated. Affected sample results in the batch were C flagged (applies to inorganic and wet chemical analyses).
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **B (organic analyses)** – Analyte was detected in the blank and was evaluated. Affected sample results in the batch were B flagged.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.
- **o** – LCS recovery outside established laboratory acceptance limits.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

ICP-AES Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Calcium – Matrix Spike recovery was outside established laboratory limits. Affected sample results in this batch were “N” flagged.
- All other applicable QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Mercury – Matrix Spike Duplicate recovery was outside established laboratory limits. Affected sample results in this batch were “N” flagged.
- All other applicable QC controls are within the established limits.

Organic Comments

VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All applicable QC controls are within the established limits.

Radiochemistry Comments

Rad Chem – The hold time requirement for this analysis was met. A Duplicate, Matrix Spike (Matrix Spikes apply only to Tritium), Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

Tritium:

- All applicable QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

May 14, 2014

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 50 pages
Including cover page

May 14, 2014

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Scot Fitzgerald

Contract # MOA-FH-CHPRC-2008
Group # WSCF140701
Report Date May 14, 2014

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Marisol Avila

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no 'Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7005. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
232041	232975	5	BLANK	109170	BLANK		ICP-6010 - All possible metals
232041	232975	7	LCS	109172	LCS		ICP-6010 - All possible metals
232041	232975	8	SAMPLE	140701001	B2W748		ICP-6010 - All possible metals
232041	232975	9	MS	109173	B2W748(140701001MS)	140701001	ICP-6010 - All possible metals
232041	232975	10	MSD	109174	B2W748(140701001MSD)	140701001	ICP-6010 - All possible metals
232041	232975	11	SAMPLE	140701002	B2W717		ICP-6010 - All possible metals
232041	232975	12	SAMPLE	140701003	B2W720		ICP-6010 - All possible metals
232041	232975	13	SAMPLE	140701004	B2W758		ICP-6010 - All possible metals
232041	232975	14	SAMPLE	140701005	B2W759		ICP-6010 - All possible metals
232041	232975	15	SAMPLE	140701006	B2W743		ICP-6010 - All possible metals
232041	232975	16	SAMPLE	140701007	B2W745		ICP-6010 - All possible metals
232041	232975	17	SAMPLE	140701008	B2W752		ICP-6010 - All possible metals
232041	232975	18	SAMPLE	140701009	B2W753		ICP-6010 - All possible metals
232041	232975	19	SAMPLE	140701010	B2W739		ICP-6010 - All possible metals
233079	233167	4	BLANK	110012	BLANK		3E-2008 ICP-MS 3 Elements
233079	233167	5	LCS	110013	LCS		3E-2008 ICP-MS 3 Elements
233079	233167	7	MS	110014	B2W7X0(140692008MS)	140692008	3E-2008 ICP-MS 3 Elements
233079	233167	8	MSD	110015	B2W7X0(140692008MSD)	140692008	3E-2008 ICP-MS 3 Elements
233079	233167	12	SAMPLE	140701004	B2W758		3E-2008 ICP-MS 3 Elements
233079	233167	13	SAMPLE	140701005	B2W759		3E-2008 ICP-MS 3 Elements
233079	233167	14	SAMPLE	140701006	B2W743		3E-2008 ICP-MS 3 Elements
233079	233167	15	SAMPLE	140701008	B2W752		3E-2008 ICP-MS 3 Elements
233079	233167	16	SAMPLE	140701009	B2W753		3E-2008 ICP-MS 3 Elements

May 14, 2014

Batch QC List

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140701

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
233079	233167	17	SAMPLE	140701010	B2W739		3E-2008 ICP-MS 3 Elements

Batch QC List

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
232156	232157	1	BLANK	109296	BLANK		SW-846 8260B Volatiles
232156	232157	2	LCS	109297	LCS		SW-846 8260B Volatiles
232156	232157	3	MS	109298	B2RVY4(140693010MS)	140693010	SW-846 8260B Volatiles
232156	232157	5	MSD	109299	B2RVY4(140693010MSD)	140693010	SW-846 8260B Volatiles
232156	232157	11	SAMPLE	140701008	B2W752		SW-846 8260B Volatiles
232156	232157	12	SAMPLE	140701009	B2W753		SW-846 8260B Volatiles
232156	232157	13	SAMPLE	140701007	B2W745		SW-846 8260B Volatiles

Batch QC List

Attention Scot Fitzgerald
 Department Radiochemistry

Group # WSCF140701

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
232060	232256	1	BLANK	109212	BLANK		Tritium by LSC
232060	232256	2	LCS	109213	LCS		Tritium by LSC
232060	232256	4	DUP	109214	B2W887(140697008DUP)	140697008	Tritium by LSC
232060	232256	5	MSPK	109215	B2W887(140697008MSP)		Tritium by LSC
232060	232256	7	SAMPLE	140701008	B2W752		Tritium by LSC
232060	232256	8	SAMPLE	140701009	B2W753		Tritium by LSC
232060	232256	9	SAMPLE	140701010	B2W739		Tritium by LSC

Method Reference

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-505-411	Elemental Analysis by ICP Atomic Emission Spectroscopy (ICP AES)		
	EPA SW-846	6010C	Inductively Coupled Plasma-Atomic Emmission Spectrometry
	HEIS	6010_METALS_ICP	Inductively Coupled Plasma-Atomic Emmission Spectrometry
LA-505-412	Determination of Trace Elements in Waters & Wastes by ICP Mass Spectrometry		
	EPA-600/R-94-111	200.8	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma
	HEIS	200.8_METALS_ICPMS	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma, Mass Spec.

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Method Reference

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-455	Volatile Sample Analysis by SW-846 Method 8260B		
	EPA SW-846	8000B	Determinative Chromographic Separations
	EPA SW-846	8260B	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
	HEIS	8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Method Reference

Attention Scot Fitzgerald
 Department Radiochemistry

Group # WSCF140701

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-218-413	Tritium By Ion Removal Using Eichrom Resin Columns (Prep)		
	N/A	PREP METHOD	
LA-508-421	Operation of the Tri-Carb Model 2500TR Liquid Scintillation Analyzer		
	HEIS	ALPHA_LSC	A/B Liquid Scintillation
	HEIS	BETA_LSC	A/B Liquid Scintillation
	HEIS	TC99_3MDSK_LSC	TC99 by Liquid Scintillation
	HEIS	TRITIUM_EIE_LSC	Tritium, by Eichrome ion exchange, LSC

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at <http://www7.rl.gov/rapidweb/AS-DOL/index.cfm>

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701001
 SAF# 114-022
 Sample ID B2W748

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		13900		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5490		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		16900		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		50.6		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411	B	7.16		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411		24.8		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	5.57		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411		86.3		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	55000		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		268		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701001
 SAF# 114-022
 Sample ID B2W748

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701002
 SAF# 114-022
 Sample ID B2W717

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		10400		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411	B	3640		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		15400		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		26.2		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		12.7		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	11.6		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411	B	6.65		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	40200		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		243		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701002
 SAF# 114-022
 Sample ID B2W717

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

WSCF Analytical Results Report

May 14, 2014

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701003
 SAF# 114-022
 Sample ID B2W720

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		10200		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411	B	3600		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		15200		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		26.6		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		13.0		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	11.6		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411		13.5		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	39500		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		240		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701003
 SAF# 114-022
 Sample ID B2W720

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701004
 SAF# 114-022
 Sample ID B2W758

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		14000		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5670		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		16800		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		42.0		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		52.9		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411	B	7.66		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	9.98		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411	B	9.51		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	52800		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		264		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701004
 SAF# 114-022
 Sample ID B2W758

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14
ICPMS Prep 3-Elements (W)										05/12/14
3E-2008 ICP-MS 3 Elements										
Mercury	7439-97-6	LA-505-412	UDN	<0.10		ug/L	2	0.10	0.40	05/13/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701005
 SAF# 114-022
 Sample ID B2W759

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		14400		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5700		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		16900		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		42.3		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		54.8		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411	B	7.93		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	11.5		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411	B	9.16		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	53700		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		266		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701005
 SAF# 114-022
 Sample ID B2W759

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14
ICPMS Prep 3-Elements (W)										05/12/14
3E-2008 ICP-MS 3 Elements										
Mercury	7439-97-6	LA-505-412	UDN	<0.10		ug/L	2	0.10	0.40	05/13/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701006
 SAF# 114-022
 Sample ID B2W743

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		15500		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5590		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		15600		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		49.6		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		22.6		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	11.5		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411	B	9.09		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	55300		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		301		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701006
 SAF# 114-022
 Sample ID B2W743

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14
ICPMS Prep 3-Elements (W)										05/12/14
3E-2008 ICP-MS 3 Elements										
Mercury	7439-97-6	LA-505-412	UDN	<0.10		ug/L	2	0.10	0.40	05/13/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

WSCF Analytical Results Report

May 14, 2014

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701007
 SAF# 114-022
 Sample ID B2W745

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		14100		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5570		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		17200		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		50.5		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411	B	7.59		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411		15.2		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	5.91		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411		19.1		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	55700		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		272		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701007
 SAF# 114-022
 Sample ID B2W745

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701008
 SAF# 114-022
 Sample ID B2W752

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		14100		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5680		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		17000		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		42.3		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		56.1		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411		8.00		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	10.7		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411		10.2		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	53900		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		267		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701008
 SAF# 114-022
 Sample ID B2W752

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14
ICPMS Prep 3-Elements (W)										05/12/14
3E-2008 ICP-MS 3 Elements										
Mercury	7439-97-6	LA-505-412	UDN	<0.10		ug/L	2	0.10	0.40	05/13/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

WSCF Analytical Results Report

May 14, 2014

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701009
 SAF# 114-022
 Sample ID B2W753

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		14500		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5770		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		17200		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		42.5		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		54.9		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411		8.48		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	10.4		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411	B	9.15		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	54900		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		270		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701009
 SAF# 114-022
 Sample ID B2W753

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14
ICPMS Prep 3-Elements (W)										05/12/14
3E-2008 ICP-MS 3 Elements										
Mercury	7439-97-6	LA-505-412	UDN	<0.10		ug/L	2	0.10	0.40	05/13/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701010
 SAF# 114-022
 Sample ID B2W739

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										05/07/14
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<40		ug/L	1	40	50	05/07/14
Magnesium	7439-95-4	LA-505-411		16200		ug/L	1	60	750	05/07/14
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Nickel	7440-02-0	LA-505-411	U	<10		ug/L	1	10	40	05/07/14
Potassium	7440-09-7	LA-505-411		5820		ug/L	1	250	4000	05/07/14
Silver	7440-22-4	LA-505-411	U	<5.0		ug/L	1	5.0	10	05/07/14
Sodium	7440-23-5	LA-505-411		16200		ug/L	1	100	500	05/07/14
Antimony	7440-36-0	LA-505-411	U	<20		ug/L	1	20	60	05/07/14
Barium	7440-39-3	LA-505-411		51.9		ug/L	1	4.0	20	05/07/14
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	5.0	05/07/14
Chromium	7440-47-3	LA-505-411		24.9		ug/L	1	5.0	10	05/07/14
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	05/07/14
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	8.0	05/07/14
Vanadium	7440-62-2	LA-505-411	B	11.7		ug/L	1	5.0	25	05/07/14
Zinc	7440-66-6	LA-505-411	B	6.27		ug/L	1	5.0	10	05/07/14
Calcium	7440-70-2	LA-505-411	N	58500		ug/L	1	50	1000	05/07/14
Strontium	7440-24-6	LA-505-411		316		ug/L	1	8.0	10	05/07/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Sample # 140701010
 SAF# 114-022
 Sample ID B2W739

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Arsenic	7440-38-2	LA-505-411	U	<25		ug/L	1	25	30	05/07/14
Beryllium	7440-41-7	LA-505-411	U	<2.0		ug/L	1	2.0	4.0	05/07/14
ICPMS Prep 3-Elements (W)										05/12/14
3E-2008 ICP-MS 3 Elements										
Mercury	7439-97-6	LA-505-412	UDN	<0.10		ug/L	2	0.10	0.40	05/13/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
 C - Analyte was found in the Associated Blank. (Inorganic)
 D - Analyte was reported at a secondary dilution factor.
 E - Analyte is an estimate, see comment section.
 N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Sample # 140701007
 SAF# 114-022
 Sample ID B2W745

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										04/22/14
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Trichloroethene	79-01-6	LA-523-455		3.8		ug/L	1	0.5	1	04/22/14
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	4	04/22/14
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	3	04/22/14
Acetone	67-64-1	LA-523-455	U	<5		ug/L	1	5	20	04/22/14
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
 D - Analyte was reported at a secondary dilution factor.
 E - Exceeds the calibration range (GC/MS).
 J - Analyte < PQL (or EQL) >= MDL.
 N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits
 U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Sample # 140701007
 SAF# 114-022
 Sample ID B2W745

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1-Butanol	71-36-3	LA-523-455	U	<50		ug/L	1	50	100	04/22/14
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	04/22/14
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	04/22/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
 D - Analyte was reported at a secondary dilution factor.
 E - Exceeds the calibration range (GC/MS).
 J - Analyte < PQL (or EQL) >= MDL.
 N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits
 U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Sample # 140701008
 SAF# 114-022
 Sample ID B2W752

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										04/22/14
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Trichloroethene	79-01-6	LA-523-455		3.6		ug/L	1	0.5	1	04/22/14
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	4	04/22/14
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	3	04/22/14
Acetone	67-64-1	LA-523-455	U	<5		ug/L	1	5	20	04/22/14
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
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B - Analyte was detected in both the BLANK and SAMPLE
 D - Analyte was reported at a secondary dilution factor.
 E - Exceeds the calibration range (GC/MS).
 J - Analyte < PQL (or EQL) >= MDL.
 N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits
 U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Sample # 140701008
 SAF# 114-022
 Sample ID B2W752

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1-Butanol	71-36-3	LA-523-455	U	<50		ug/L	1	50	100	04/22/14
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	04/22/14
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	04/22/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

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 E - Exceeds the calibration range (GC/MS).
 J - Analyte < PQL (or EQL) >= MDL.
 N - Presumed evidence based on MS library search(GC/MS only)

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 X,Y or Z - See comment detail and/or narrative.
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 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Sample # 140701009
 SAF# 114-022
 Sample ID B2W753

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										04/22/14
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Trichloroethene	79-01-6	LA-523-455		3.5		ug/L	1	0.5	1	04/22/14
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	4	04/22/14
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	3	04/22/14
Acetone	67-64-1	LA-523-455	U	<5		ug/L	1	5	20	04/22/14
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
 D - Analyte was reported at a secondary dilution factor.
 E - Exceeds the calibration range (GC/MS).
 J - Analyte < PQL (or EQL) >= MDL.
 N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits
 U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Sample # 140701009
 SAF# 114-022
 Sample ID B2W753

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
1-Butanol	71-36-3	LA-523-455	U	<50		ug/L	1	50	100	04/22/14
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	04/22/14
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	04/22/14
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	04/22/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
 D - Analyte was reported at a secondary dilution factor.
 E - Exceeds the calibration range (GC/MS).
 J - Analyte < PQL (or EQL) >= MDL.
 N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits
 U - Analyzed for but not detected above limiting criteria.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Radiochemistry

Group # WSCF140701

Sample # 140701008
 SAF# 114-022
 Sample ID B2W752

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Tritium by LSC EICHROM WA/LIQ PREP										04/22/14
Tritium by LSC										
Tritium	10028-17-8	LA-508-421		1400	360	pCi/L	1	280		04/29/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - The associated QC sample Blank has a result > or = the MDA
 U - Analyzed for but not detected above limiting criteria.
 N - Spike Recovery is Outside Control Limits.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Radiochemistry

Group # WSCF140701

Sample # 140701009
 SAF# 114-022
 Sample ID B2W753

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Tritium by LSC EICHROM WA/LIQ PREP										04/22/14
Tritium by LSC										
Tritium	10028-17-8	LA-508-421		1300	350	pCi/L	1	280		04/29/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - The associated QC sample Blank has a result > or = the MDA
 U - Analyzed for but not detected above limiting criteria.
 N - Spike Recovery is Outside Control Limits.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
 Department Radiochemistry

Group # WSCF140701

Sample # 140701010
 SAF# 114-022
 Sample ID B2W739

Matrix WATER
 Sampled 04/17/14
 Received 04/17/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Tritium by LSC EICHROM WA/LIQ PREP										04/22/14
Tritium by LSC										
Tritium	10028-17-8	LA-508-421		1500	390	pCi/L	1	280		04/29/14

MDL = Minimum Detection Limit
 RQ = Result Qualifier
 TP Err = Total Propagated Error
 DF = Dilution Factor
 + - Indicates more than nine qualifier

B - The associated QC sample Blank has a result > or = the MDA
 U - Analyzed for but not detected above limiting criteria.
 N - Spike Recovery is Outside Control Limits.
 X,Y or Z - See comment detail and/or narrative.
 PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Analytical Batch 232157 (QC Batch: 232156) Test SW-846 8260B Volatiles
 Associated Samples 140701007, 140701008, 140701009

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #109296								
1,1-Dichloroethene	75-35-4	<1		ug/L					U	04/22/14
Trichloroethene	79-01-6	<0.5		ug/L					U	04/22/14
Benzene	71-43-2	<1		ug/L					U	04/22/14
Toluene	108-88-3	<1		ug/L					U	04/22/14
Chlorobenzene	108-90-7	<1		ug/L					U	04/22/14
1,1-Dichloroethane	75-34-3	<1		ug/L					U	04/22/14
Ethylbenzene	100-41-4	<1		ug/L					U	04/22/14
1,2-Dichloroethane	107-06-2	<1		ug/L					U	04/22/14
Methyl isobutyl ketone	108-10-1	<1		ug/L					U	04/22/14
Tetrachloroethene	127-18-4	<1		ug/L					U	04/22/14
Total Xylenes	1330-20-7	<1		ug/L					U	04/22/14
Carbon tetrachloride	56-23-5	<1		ug/L					U	04/22/14
Acetone	67-64-1	<5		ug/L					U	04/22/14
Chloroform	67-66-3	<1		ug/L					U	04/22/14
1,1,1-Trichloroethane	71-55-6	<1		ug/L					U	04/22/14
Vinyl chloride	75-01-4	<1		ug/L					U	04/22/14
Methylene chloride	75-09-2	<1		ug/L					U	04/22/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Carbon disulfide	75-15-0		<1	ug/L					U	04/22/14
Methyl ethyl ketone	78-93-3		<1	ug/L					U	04/22/14
1,1,2-Trichloroethane	79-00-5		<1	ug/L					U	04/22/14
1-Butanol	71-36-3		<50	ug/L					U	04/22/14
Tetrahydrofuran	109-99-9		<2	ug/L					U	04/22/14
trans-1,2-Dichloroethene	156-60-5		<1	ug/L					U	04/22/14
cis-1,2-Dichloroethene	156-59-2		<1	ug/L					U	04/22/14
Propionitrile	107-12-0		<2	ug/L					U	04/22/14
LCS										
										QC Sample #109297
1,1-Dichloroethene	75-35-4		22	ug/L	87.1	75 - 125				04/22/14
Trichloroethene	79-01-6		25	ug/L	101.6	75 - 125				04/22/14
Benzene	71-43-2		27	ug/L	108.9	75 - 125				04/22/14
Toluene	108-88-3		27	ug/L	108.5	75 - 125				04/22/14
Chlorobenzene	108-90-7		26	ug/L	104.6	75 - 125				04/22/14
1,1-Dichloroethane	75-34-3		26	ug/L	102.3	75 - 125				04/22/14
Ethylbenzene	100-41-4		27	ug/L	109	75 - 125				04/22/14
1,2-Dichloroethane	107-06-2		26	ug/L	102.3	75 - 125				04/22/14
1,1,1-Trichloroethane	71-55-6		26	ug/L	105.7	75 - 125				04/22/14
Carbon disulfide	75-15-0		22	ug/L	86.4	75 - 125				04/22/14
1,1,2-Trichloroethane	79-00-5		26	ug/L	105.4	75 - 125				04/22/14
trans-1,2-Dichloroethene	156-60-5		23	ug/L	91.5	75 - 125				04/22/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1-Dichloroethane	75-34-3		26	ug/L	103.7	75 - 125	0.50	20		04/22/14
Ethylbenzene	100-41-4		27	ug/L	108.6	75 - 125	0.40	20		04/22/14
1,2-Dichloroethane	107-06-2		27	ug/L	107.1	75 - 125	2.70	20		04/22/14
1,1,1-Trichloroethane	71-55-6		26	ug/L	104.7	75 - 125	1.60	20		04/22/14
Carbon disulfide	75-15-0		22	ug/L	86	75 - 125	0.70	20		04/22/14
1,1,2-Trichloroethane	79-00-5		28	ug/L	111.5	75 - 125	2.10	20		04/22/14
trans-1,2-Dichloroethene	156-60-5		23	ug/L	93	75 - 125	0.20	20		04/22/14
cis-1,2-Dichloroethene	156-59-2		25	ug/L	101.8	75 - 125	0.20	20		04/22/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Radiochemistry

Group # WSCF140701

Analytical Batch 232256 (QC Batch: 232060) Test Tritium by LSC
 Associated Samples 140701008, 140701009, 140701010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
Tritium	10028-17-8		-32	pCi/L					U	04/29/14
LCS										
Tritium	10028-17-8		3700	pCi/L	95.6	80 - 120				04/29/14
DUP										
Tritium	10028-17-8		120	pCi/L			105.60	20	* U	04/29/14
MSPK										
Tritium	10028-17-8		19000	pCi/L	93.4	75 - 125				04/29/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Arsenic	7440-38-2		<25	ug/L					U	05/07/14
Beryllium	7440-41-7		<2.0	ug/L					U	05/07/14
LCS			QC Sample #109172							
Iron	7439-89-6		1040	ug/L	104.1	80 - 120				05/07/14
Magnesium	7439-95-4		9900	ug/L	99	80 - 120				05/07/14
Manganese	7439-96-5		972	ug/L	97.2	80 - 120				05/07/14
Nickel	7440-02-0		976	ug/L	97.6	80 - 120				05/07/14
Potassium	7440-09-7		9460	ug/L	94.6	80 - 120				05/07/14
Silver	7440-22-4		982	ug/L	98.2	80 - 120				05/07/14
Sodium	7440-23-5		9950	ug/L	99.5	80 - 120				05/07/14
Antimony	7440-36-0		986	ug/L	98.6	80 - 120				05/07/14
Barium	7440-39-3		1020	ug/L	102.5	80 - 120				05/07/14
Cadmium	7440-43-9		969	ug/L	96.9	80 - 120				05/07/14
Chromium	7440-47-3		971	ug/L	97.1	80 - 120				05/07/14
Cobalt	7440-48-4		998	ug/L	99.8	80 - 120				05/07/14
Copper	7440-50-8		980	ug/L	98	80 - 120				05/07/14
Vanadium	7440-62-2		968	ug/L	96.8	80 - 120				05/07/14
Zinc	7440-66-6		963	ug/L	96.3	80 - 120				05/07/14
Calcium	7440-70-2		20000	ug/L	99.9	80 - 120				05/07/14
Strontium	7440-24-6		1020	ug/L	102.5	80 - 120				05/07/14
Arsenic	7440-38-2		994	ug/L	99.4	80 - 120				05/07/14
Beryllium	7440-41-7		951	ug/L	95.1	80 - 120				05/07/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS		QC Sample #109173								
		Original 140701001								
Iron	7439-89-6	<40	957	ug/L	95.7	75 - 125				05/07/14
Magnesium	7439-95-4	13900	7710	ug/L	77.1	75 - 125				05/07/14
Manganese	7439-96-5	<4.0	950	ug/L	95	75 - 125				05/07/14
Nickel	7440-02-0	<10	937	ug/L	93.7	75 - 125				05/07/14
Potassium	7440-09-7	5490	9820	ug/L	98.2	75 - 125				05/07/14
Silver	7440-22-4	<5.0	980	ug/L	98	75 - 125				05/07/14
Sodium	7440-23-5	16900	7540	ug/L	75.4	75 - 125				05/07/14
Antimony	7440-36-0	<20	990	ug/L	99	75 - 125				05/07/14
Barium	7440-39-3	50.6	929	ug/L	92.9	75 - 125				05/07/14
Cadmium	7440-43-9	<4.0	955	ug/L	95.5	75 - 125				05/07/14
Chromium	7440-47-3	7.16	954	ug/L	95.4	75 - 125				05/07/14
Cobalt	7440-48-4	<4.0	944	ug/L	94.4	75 - 125				05/07/14
Copper	7440-50-8	24.8	977	ug/L	97.7	75 - 125				05/07/14
Vanadium	7440-62-2	5.57	955	ug/L	95.5	75 - 125				05/07/14
Zinc	7440-66-6	86.3	925	ug/L	92.5	75 - 125				05/07/14
Calcium	7440-70-2	55000	12900	ug/L	64.6	75 - 125			N	05/07/14
Strontium	7440-24-6	268	931	ug/L	93.1	75 - 125				05/07/14
Arsenic	7440-38-2	<25	1010	ug/L	100.7	75 - 125				05/07/14
Beryllium	7440-41-7	<2.0	945	ug/L	94.5	75 - 125				05/07/14
MSD		QC Sample #109174								
		Original 140701001								
		Paired 109173								
Iron	7439-89-6	<40	975	ug/L	97.5	75 - 125	1.80	20		05/07/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Magnesium	7439-95-4	13900	8600	ug/L	86	75 - 125	4.00	20		05/07/14
Manganese	7439-96-5	<4.0	971	ug/L	97.1	75 - 125	2.20	20		05/07/14
Nickel	7440-02-0	<10	936	ug/L	93.6	75 - 125	0.10	20		05/07/14
Potassium	7440-09-7	5490	10400	ug/L	103.9	75 - 125	3.70	20		05/07/14
Silver	7440-22-4	<5.0	982	ug/L	98.2	75 - 125	0.20	20		05/07/14
Sodium	7440-23-5	16900	8570	ug/L	85.7	75 - 125	4.10	20		05/07/14
Antimony	7440-36-0	<20	996	ug/L	99.6	75 - 125	0.60	20		05/07/14
Barium	7440-39-3	50.6	960	ug/L	96	75 - 125	3.10	20		05/07/14
Cadmium	7440-43-9	<4.0	962	ug/L	96.2	75 - 125	0.70	20		05/07/14
Chromium	7440-47-3	7.16	953	ug/L	95.3	75 - 125	0.10	20		05/07/14
Cobalt	7440-48-4	<4.0	957	ug/L	95.7	75 - 125	1.40	20		05/07/14
Copper	7440-50-8	24.8	977	ug/L	97.7	75 - 125	0.00	20		05/07/14
Vanadium	7440-62-2	5.57	956	ug/L	95.6	75 - 125	0.10	20		05/07/14
Zinc	7440-66-6	86.3	924	ug/L	92.4	75 - 125	0.10	20		05/07/14
Calcium	7440-70-2	55000	16000	ug/L	79.8	75 - 125	4.40	20		05/07/14
Strontium	7440-24-6	268	971	ug/L	97.1	75 - 125	3.30	20		05/07/14
Arsenic	7440-38-2	<25	1010	ug/L	100.6	75 - 125	0.10	20		05/07/14
Beryllium	7440-41-7	<2.0	972	ug/L	97.2	75 - 125	2.80	20		05/07/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140701

Analytical Batch 233167 (QC Batch: 233079) Test 3E-2008 ICP-MS 3 Elements
 Associated Samples 140701004, 140701005, 140701006, 140701008, 140701009, 140701010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #110012								
Mercury	7439-97-6		<0.050	ug/L					U	05/13/14
LCS		QC Sample #110013								
Mercury	7439-97-6		2.80	ug/L	93.2	85 - 115				05/13/14
MS		QC Sample #110014								
		Original 140692008								
Mercury	7439-97-6		2.51	ug/L	125.5	70 - 130				05/13/14
MSD		QC Sample #110015								
		Original 140692008								
Mercury	7439-97-6		2.67	ug/L	133.6	70 - 130	6.30	20	Paired 110014 N	05/13/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Analytical Batch 232157 (QC Batch: 232156) Test SW-846 8260B Volatiles
 Associated Samples 140701007, 140701008, 140701009

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #109296								
1,2-Dichloroethane-d4	17060-07-0				109.2	75 - 125				04/22/14
Toluene-d8	2037-26-5				103	75 - 125				04/22/14
4-Bromofluorobenzene	460-00-4				102.4	75 - 125				04/22/14
LCS		QC Sample #109297								
1,2-Dichloroethane-d4	17060-07-0				103.8	75 - 125				04/22/14
Toluene-d8	2037-26-5				102	75 - 125				04/22/14
4-Bromofluorobenzene	460-00-4				104.9	75 - 125				04/22/14
MS		QC Sample #109298								
		Original 140693010								
1,2-Dichloroethane-d4	17060-07-0				104.5	75 - 125				04/22/14
Toluene-d8	2037-26-5				101.7	75 - 125				04/22/14
4-Bromofluorobenzene	460-00-4				104.8	75 - 125				04/22/14
MSD		QC Sample #109299								
		Original 140693010								
1,2-Dichloroethane-d4	17060-07-0				108.6	75 - 125	n/a		Paired 109298	04/22/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF140701

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Toluene-d8	2037-26-5				102.9	75 - 125	n/a			04/22/14
4-Bromofluorobenzene	460-00-4				104.8	75 - 125	n/a			04/22/14
SAMPLE			Sample #140701007							
1,2-Dichloroethane-d4	17060-07-0				112	75 - 125				04/22/14
Toluene-d8	2037-26-5				102.5	75 - 125				04/22/14
4-Bromofluorobenzene	460-00-4				105.8	75 - 125				04/22/14
SAMPLE			Sample #140701008							
1,2-Dichloroethane-d4	17060-07-0				108.7	75 - 125				04/22/14
Toluene-d8	2037-26-5				101.7	75 - 125				04/22/14
4-Bromofluorobenzene	460-00-4				105	75 - 125				04/22/14
SAMPLE			Sample #140701009							
1,2-Dichloroethane-d4	17060-07-0				112.1	75 - 125				04/22/14
Toluene-d8	2037-26-5				101.4	75 - 125				04/22/14
4-Bromofluorobenzene	460-00-4				106	75 - 125				04/22/14

* - QC result out of range

n/a - Not Applicable

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 8 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. Box 650 S3-30, Richland WA 99352
Phone: (509) 373-7005/FAX: (509) 372-0456

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory

PO Box 650 S3-30
 Richland, WA 99352

ATTN: Scot Fitzgerald

Customer Code: CHPRC
CA CN: 401647
Work Order #: 140701
Customer Work ID: I14-022-044
Due Date: 05/19/2014 **(R031)**

The following samples were received from you on 4/17/2014 11:20:00 AM. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact WSCF Client Services. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
140701001	B2W748	WATER	4/17/2014 09:00	4/17/2014 11:20
Procedure		Compound List		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
Sample #	Sample ID	Matrix	Collected	Received
140701002	B2W717	WATER	4/17/2014 09:33	4/17/2014 11:20
Procedure		Compound List		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
Sample #	Sample ID	Matrix	Collected	Received
140701003	B2W720	WATER	4/17/2014 09:33	4/17/2014 11:20
Procedure		Compound List		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
Sample #	Sample ID	Matrix	Collected	Received
140701004	B2W758	WATER	4/17/2014 08:27	4/17/2014 11:20
Procedure		Compound List		
3E-2008 ICP-MS 3 Elements		Hg		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
Sample #	Sample ID	Matrix	Collected	Received
140701005	B2W759	WATER	4/17/2014 08:27	4/17/2014 11:20
Procedure		Compound List		
3E-2008 ICP-MS 3 Elements		Hg		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
Sample #	Sample ID	Matrix	Collected	Received
140701006	B2W743	WATER	4/17/2014 08:03	4/17/2014 11:20
Procedure		Compound List		
3E-2008 ICP-MS 3 Elements		Hg		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
Sample #	Sample ID	Matrix	Collected	Received
140701007	B2W745	WATER	4/17/2014 09:00	4/17/2014 11:20
Procedure		Compound List		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
SW-846 8260B Volatiles		8260 GCM S Common + GW01		

Waste Sampling and Characterization Facility
P.O. Box 650 S3-30, Richland WA 99352
Phone: (509) 373-7005/FAX: (509) 372-0456

Sample #	Sample ID	Matrix	Collected	Received
140701008	B2W752	WATER	4/17/2014 08:27	4/17/2014 11:20
Procedure		Compound List		
3E-2008 ICP-MS 3 Elements		Hg		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
SW-846 8260B Volatiles		8260 GCM S Common + GW01		
Tritium by LSC		H3		
Sample #	Sample ID	Matrix	Collected	Received
140701009	B2W753	WATER	4/17/2014 08:27	4/17/2014 11:20
Procedure		Compound List		
3E-2008 ICP-MS 3 Elements		Hg		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
SW-846 8260B Volatiles		8260 GCM S Common + GW01		
Tritium by LSC		H3		
Sample #	Sample ID	Matrix	Collected	Received
140701010	B2W739	WATER	4/17/2014 08:03	4/17/2014 11:20
Procedure		Compound List		
3E-2008 ICP-MS 3 Elements		Hg		
ICP-6010 - All possible metals		6010 ICP Common + GW03		
Tritium by LSC		H3		

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # 114-022-044

Page 1 of 1

Collector	Kevin Peterson	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	114-022	Sampling Origin	Hanford Site	Purchase Order/Charge Code	310071ES/20
Project Title	100KR4, APRIL 2014	Logbook No.	HNFN-506 61/93	Inv. Check/No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	31 Days	Onsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
 ** ** Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR/ATA
 Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

14D701

Sample No	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2W746	1	Y	4/17/14	0700	1x500-ml GP	6010 METALS, CP COMMON; 6010 METALS, CP GW 03	6 Months	HNO3 to pH <2
B2W745	7	N			1x500-ml GP	6010 METALS, CP COMMON; 6010 METALS, CP GW 03	6 Months	HNO3 to pH <2
B2W746	↓	N			3x40-ml eGS*	8260_VOA_GCMS; COMMON; 8260_VOA_GCMS; GW 01	14 Days	HCl or H2SO4 to pH <2/CuI-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By		<i>Kevin Peterson</i>	APR 17 2014 1120	Received By	<i>TA Farnsworth</i>	APR 17 2014 1120		S = Soil SL = Sediment SO = Solid SL = Sludge W = Water U = Oil A = Air
Relinquished By				Received By				DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By				Received By				

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

PRINTED ON 3/4/2014

A-0004-042 (REV 2)

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# 114-022-041
Page 1 of 1

Collector: Keen Peterson	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: 114-022	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071/EN20
Project Title: 100KR4, APRIL 2014	Logbook No.: HNF-N-506 6193	Ice Chest No.: N/A
Shipped To (Lab): Waste Sampling & Characterization	Method of Shipment: GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 31 Days	Offsite Property No.: N/A
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR/ATA Dangerous Good Regulations but are not releasable per DOE Order 438.1.		
SPECIAL INSTRUCTIONS: 114d Time 100 Area Generator Knowledge Information Form applies. The CACN for analytical work at WSCP is 40-047.		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2W739 10	N	4/17/14	0803	1x500-mL G	200.3_MERCURY: COMMON	28 Days	HNO3 to pH <2
B2W739	N			1x500-mL G/P	6010_METALS_ICP: COMMON; 6010_METALS_ICP: GW 03	6 Months	HNO3 to pH <2
B2W739	N			1x250-mL G	TRITIUM_EIE_19C: COMMON	9 Months	None
B2W743	Y			1x500-mL G	200.3_MERCURY: COMMON	28 Days	HNO3 to pH <2
B2W743	Y			1x500-mL G/P	6010_METALS_ICP: COMMON; 6010_METALS_ICP: GW 03	6 Months	HNO3 to pH <2

Chain of Custody

Relinquished By: <i>Keen Peterson</i>	Signature	Date/Time: APR 17 2014 1120	Received By: <i>T.A. Martin</i>	Signature	Date/Time: APR 17 2014 1120
Relinquished By:	Signature	Date/Time:	Received By:	Signature	Date/Time:
Relinquished By:	Signature	Date/Time:	Received By:	Signature	Date/Time:
Relinquished By:	Signature	Date/Time:	Received By:	Signature	Date/Time:
FINAL SAMPLE DISPOSITION	Disposition Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By:	Signature	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

PRINTED ON 3/6/2014

A-6004-942 (REV 2)