WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

May 7, 2014

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

Dear Scot Fitzgerald,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF140727

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 WSCF140727

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

Very truly yours,

Electronically signed by Joseph Hale
For Lab Manager, Dan T. Smith
WSCF Analytical Lab
(509) 373-4804

Attachments 4

CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF140727
Data Deliverable Date 05/22/14

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
F14-003	B2W2R0	140727001	WATER	04/22/14	04/22/14
F14-003	B2W2P9	140727002	WATER	04/22/14	04/22/14
F14-003	B2W2X7	140727003	WATER	04/22/14	04/22/14
F14-003	B2W2R1	140727004	WATER	04/22/14	04/22/14

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Attachment 2
Narrative
WSCF140727

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

Attachment 2
Narrative
WSCF140727

Anions – 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):

- All applicable QC controls are within the established limits.

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

- All applicable QC controls are within the established limits.

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 – Exceeded spiking levels by a factor of 4. Spike recoveries and associated RPDs are not valid.
- 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. Technetium-99 is analyzed without prep therefore there is no Matrix Spike or Matrix Spike Duplicate with analysis. Analytical Note(s):

- All 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

Attachment 2
Narrative
WSCF140727

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.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 32 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Scot Fitzgerald

Contract #	MOA-FH-CHPRC-2008
Group #	WSCF140727
Report Date	May 7, 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 # WSCF140727

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
232163	232784	5	BLANK	109326	BLANK		ICP-6010 - All possible metals
232163	232784	7	LCS	109328	LCS		ICP-6010 - All possible metals
232163	232784	9	MS	109329	B2V2Y7(140723001MS)	140723001	ICP-6010 - All possible metals
232163	232784	10	MSD	109330	B2V2Y7(140723001MSD)	140723001	ICP-6010 - All possible metals
232163	232784	23	SAMPLE	140727004	B2W2R1		ICP-6010 - All possible metals
232243	232243	1	BLANK	109377	BLANK		Hexavalent chromium Discrete Analyzer
232243	232243	3	LCS	109379	LCS		Hexavalent chromium Discrete Analyzer
232243	232243	4	DUP	109380	B2W2R0(140727001DUP	140727001	Hexavalent chromium Discrete Analyzer
232243	232243	5	MS	109381	B2W2R0(140727001MS)	140727001	Hexavalent chromium Discrete Analyzer
232243	232243	6	SAMPLE	140727001	B2W2R0		Hexavalent chromium Discrete Analyzer
232249	232249	2	BLANK	109411	BLANK		Anions by Ion Chromatography (Water)
232249	232249	3	LCS	109412	LCS		Anions by Ion Chromatography (Water)
232249	232249	4	MS	109413	B2W952(140732003MS)	140732003	Anions by Ion Chromatography (Water)
232249	232249	5	MSD	109414	B2W952(140732003MSD	140732003	Anions by Ion Chromatography (Water)
232249	232249	6	SAMPLE	140727004	B2W2R1		Anions by Ion Chromatography (Water)
232462	232542	4	BLANK	109581	BLANK		ICP-2008 MS All possible metal
232462	232542	5	LCS	109582	LCS		ICP-2008 MS All possible metal
232462	232542	7	MS	109583	B2W9N8(140582003MS)	140582003	ICP-2008 MS All possible metal
232462	232542	8	MSD	109584	B2W9N8(140582003MSD	140582003	ICP-2008 MS All possible metal
232462	232542	28	SAMPLE	140727004	B2W2R1		ICP-2008 MS All possible metal

Batch QC List

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
232251	232252	1	BLANK	109420	BLANK		SW-846 8260B Volatiles
232251	232252	2	LCS	109421	LCS		SW-846 8260B Volatiles
232251	232252	3	MS	109422	B2W833(140706004MS)	140706004	SW-846 8260B Volatiles
232251	232252	4	MSD	109423	B2W833(140706004MSD	140706004	SW-846 8260B Volatiles
232251	232252	15	SAMPLE	140727002	B2W2P9		SW-846 8260B Volatiles
232251	232252	16	SAMPLE	140727003	B2W2X7		SW-846 8260B Volatiles

Batch QC List

Attention Scot Fitzgerald
Department Radiochemistry

Group # WSCF140727

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
232167	232254	1	BLANK	109342	BLANK		Tritium by LSC
232167	232254	2	LCS	109343	LCS		Tritium by LSC
232167	232254	4	DUP	109344	B2W6L3(140718001DUP)	140718001	Tritium by LSC
232167	232254	5	MSPK	109345	B2W6L3(140718001MSP		Tritium by LSC
232167	232254	15	SAMPLE	140727004	B2W2R1		Tritium by LSC
232870	232877	1	BLANK	109870	BLANK		Technetium-99 by ICP MS
232870	232877	2	LCS	109871	LCS		Technetium-99 by ICP MS
232870	232877	9	SAMPLE	140727004	B2W2R1		Technetium-99 by ICP MS

Method Reference

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

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-265-403	Hexavalent Chromium Analysis		
	EPA SW-846	7196A	Hexavalent Chromium
	HEIS	7196_CR6	Hexavalent Chromium
LA-505-411	Elemental Analysis by ICP Atomic Emission Spectroscopy (ICP AES)		
	EPA SW-846	6010C	Inductively Coupled Plasma-Atomic Emmision Spectrometry
	HEIS	6010_METALS_ICP	Inductively Coupled Plasma-Atomic Emmision 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.
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

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 # WSCF140727

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 # WSCF140727

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
LA-505-412	Technicium-99 by ICP-MS		
	HEIS	RADISOTOPES_ICPMS	Tc-99 by ICPMS

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

WSCF Analytical Results Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Sample # 140727001
SAF# F14-003
Sample ID B2W2R0

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										04/22/14
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403	B	0.00460		mg/L	1	0.0020	0.0050	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 < 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

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Sample # 140727004
SAF# F14-003
Sample ID B2W2R1

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										04/22/14
Anions by Ion Chromatography (Water)										
Nitrate-N	NO3-N	LA-533-410	D	16.5		ug/mL	2	0.040	0.20	04/22/14
ICPAES Prep (W)										**05/05/14**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411		758		ug/L	1	40	50	05/05/14
Magnesium	7439-95-4	LA-505-411		15900		ug/L	1	60	750	05/05/14
Calcium	7440-70-2	LA-505-411		47800		ug/L	1	50	1000	05/05/14
ICPMS Prep (W)										**04/29/14**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	UD	<20		ug/L	2	20	100	04/29/14
Manganese	7439-96-5	LA-505-412	D	24.4		ug/L	2	0.20	2.0	04/29/14
Nickel	7440-02-0	LA-505-412	BD	1.01		ug/L	2	0.20	2.0	04/29/14
Barium	7440-39-3	LA-505-412	D	44.4		ug/L	2	0.40	4.0	04/29/14
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	04/29/14
Chromium	7440-47-3	LA-505-412	D	2.14		ug/L	2	0.20	2.0	04/29/14
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	04/29/14
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	04/29/14
Vanadium	7440-62-2	LA-505-412	D	17.9		ug/L	2	0.40	4.0	04/29/14

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

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Sample # 140727004
SAF# F14-003
Sample ID B2W2R1

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	04/29/14
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	04/29/14
Strontium	7440-24-6	LA-505-412	D	172		ug/L	2	0.40	2.0	04/29/14
Uranium	7440-61-1	LA-505-412	D	0.596		ug/L	2	0.10	0.50	04/29/14
Arsenic	7440-38-2	LA-505-412	BD	0.970		ug/L	2	0.40	4.0	04/29/14

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

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Sample # 140727002
SAF# F14-003
Sample ID B2W2P9

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										**04/23/14**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Trichloroethene	79-01-6	LA-523-455	U	<0.5		ug/L	1	0.5	1	04/23/14
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	4	04/23/14
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	04/23/14

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.

WSCF Analytical Results Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Sample # 140727002
SAF# F14-003
Sample ID B2W2P9

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455		5.7		ug/L	1	1	3	04/23/14
2-Hexanone	591-78-6	LA-523-455	U	<5		ug/L	1	5	20	04/23/14
Acetone	67-64-1	LA-523-455	U	<5		ug/L	1	5	20	04/23/14
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Chloromethane	74-87-3	LA-523-455	U	<2		ug/L	1	2	10	04/23/14
Chloroethane	75-00-3	LA-523-455	U	<2		ug/L	1	2	10	04/23/14
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
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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.

WSCF Analytical Results Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Sample # 140727003
SAF# F14-003
Sample ID B2W2X7

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										**04/23/14**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Trichloroethene	79-01-6	LA-523-455	U	<0.5		ug/L	1	0.5	1	04/23/14
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	4	04/23/14
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	04/23/14

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.

WSCF Analytical Results Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Sample # 140727003
SAF# F14-003
Sample ID B2W2X7

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455	J	1.1		ug/L	1	1	3	04/23/14
2-Hexanone	591-78-6	LA-523-455	U	<5		ug/L	1	5	20	04/23/14
Acetone	67-64-1	LA-523-455	U	<5		ug/L	1	5	20	04/23/14
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Chloromethane	74-87-3	LA-523-455	U	<2		ug/L	1	2	10	04/23/14
Chloroethane	75-00-3	LA-523-455	U	<2		ug/L	1	2	10	04/23/14
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Methylene chloride	75-09-2	LA-523-455		19		ug/L	1	1	5	04/23/14
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	04/23/14

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.

WSCF Analytical Results Report

Attention Scot Fitzgerald
Department Radiochemistry

Group # WSCF140727

Sample # 140727004
SAF# F14-003
Sample ID B2W2R1

Matrix WATER
Sampled 04/22/14
Received 04/22/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**05/06/14**
Technetium-99 by ICP MS										
Technetium-99	14133-76-7	LA-505-412		0.0080		ug/L	1	0.0010		05/06/14
Tritium by LSC EICHROM WA/LIQ PREP										**04/23/14**
Tritium by LSC										
Tritium	10028-17-8	LA-508-421	U	230	210	pCi/L	1	320		04/28/14

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 Inorganic

Group # WSCF140727

Analytical Batch 232243 (QC Batch: 232243)
Associated Samples 140727001

Test Hexavalent chromium Discrete Analyzer

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109377**							
Hexavalent chromium	18540-29-9		<0.0020	mg/L					U	04/22/14
LCS			**QC Sample #109379**							
Hexavalent chromium	18540-29-9		0.0517	mg/L	103.4	90 - 110				04/22/14
DUP			**QC Sample #109380**							
			Original 140727001							
Hexavalent chromium	18540-29-9	0.00460	0.00460	mg/L			0.00	20	B	04/22/14
MS			**QC Sample #109381**							
			Original 140727001							
Hexavalent chromium	18540-29-9	0.00460	0.0374	mg/L	93.5	85 - 115				04/22/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Analytical Batch 232249 (QC Batch: 232249)
Associated Samples 140727004

Test Anions by Ion Chromatography (Water)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109411**							
Nitrate-N	NO3-N		<0.020	ug/mL					U	04/22/14
LCS			**QC Sample #109412**							
Nitrate-N	NO3-N		0.889	ug/mL	100.4	90 - 110				04/22/14
MS			**QC Sample #109413**							
			Original 140732003							
Nitrate-N	NO3-N		0.860	ug/mL	96.2	80 - 120			D	04/22/14
MSD			**QC Sample #109414**							
			Original 140732003					**Paired**	**109413**	
Nitrate-N	NO3-N		0.827	ug/mL	92.5	80 - 120	0.70	20	D	04/22/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Analytical Batch 232252 (QC Batch: 232251)
Associated Samples 140727002, 140727003

Test SW-846 8260B Volatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109420**							
1,1-Dichloroethene	75-35-4		<1	ug/L					U	04/23/14
Trichloroethene	79-01-6		<0.5	ug/L					U	04/23/14
Benzene	71-43-2		<1	ug/L					U	04/23/14
Toluene	108-88-3		<1	ug/L					U	04/23/14
Chlorobenzene	108-90-7		<1	ug/L					U	04/23/14
1,1-Dichloroethane	75-34-3		<1	ug/L					U	04/23/14
Ethylbenzene	100-41-4		<1	ug/L					U	04/23/14
Styrene	100-42-5		<1	ug/L					U	04/23/14
cis-1,3-Dichloropropene	10061-01-5		<1	ug/L					U	04/23/14
trans-1,3-Dichloropropene	10061-02-6		<1	ug/L					U	04/23/14
1,2-Dichloroethane	107-06-2		<1	ug/L					U	04/23/14
Methyl isobutyl ketone	108-10-1		<1	ug/L					U	04/23/14
Dibromochloromethane	124-48-1		<1	ug/L					U	04/23/14
Tetrachloroethene	127-18-4		<1	ug/L					U	04/23/14
Total Xylenes	1330-20-7		<1	ug/L					U	04/23/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Total 1,2-Dichloroethene	540-59-0		<1	ug/L					U	04/23/14
Carbon tetrachloride	56-23-5		<1	ug/L					U	04/23/14
2-Hexanone	591-78-6		<5	ug/L					U	04/23/14
Acetone	67-64-1		<5	ug/L					U	04/23/14
Chloroform	67-66-3		<1	ug/L					U	04/23/14
1,1,1-Trichloroethane	71-55-6		<1	ug/L					U	04/23/14
Bromomethane	74-83-9		<1	ug/L					U	04/23/14
Chloromethane	74-87-3		<2	ug/L					U	04/23/14
Chloroethane	75-00-3		<2	ug/L					U	04/23/14
Vinyl chloride	75-01-4		<1	ug/L					U	04/23/14
Methylene chloride	75-09-2		<1	ug/L					U	04/23/14
Carbon disulfide	75-15-0		<1	ug/L					U	04/23/14
Bromoform	75-25-2		<1	ug/L					U	04/23/14
Bromodichloromethane	75-27-4		<1	ug/L					U	04/23/14
1,2-Dichloropropane	78-87-5		<1	ug/L					U	04/23/14
Methyl ethyl ketone	78-93-3		<1	ug/L					U	04/23/14
1,1,2-Trichloroethane	79-00-5		<1	ug/L					U	04/23/14
1,1,2,2-Tetrachloroethane	79-34-5		<1	ug/L					U	04/23/14
LCS			**QC Sample #109421**							
1,1-Dichloroethene	75-35-4		20	ug/L	80.1	75 - 125				04/23/14
Trichloroethene	79-01-6		24	ug/L	95.4	75 - 125				04/23/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Benzene	71-43-2		25	ug/L	100.2	75 - 125				04/23/14
Toluene	108-88-3		26	ug/L	104.8	75 - 125				04/23/14
Chlorobenzene	108-90-7		25	ug/L	100.2	75 - 125				04/23/14
1,1-Dichloroethane	75-34-3		24	ug/L	95.7	75 - 125				04/23/14
Ethylbenzene	100-41-4		26	ug/L	104.6	75 - 125				04/23/14
Styrene	100-42-5		26	ug/L	104.7	75 - 125				04/23/14
trans-1,3-Dichloropropene	10061-02-6		23	ug/L	92.6	75 - 125				04/23/14
1,2-Dichloroethane	107-06-2		24	ug/L	94.5	75 - 125				04/23/14
1,1,1-Trichloroethane	71-55-6		24	ug/L	94.1	75 - 125				04/23/14
Dibromochloromethane	124-48-1		25	ug/L	98.2	75 - 125				04/23/14
Carbon disulfide	75-15-0		21	ug/L	82.8	75 - 125				04/23/14
Bromoform	75-25-2		23	ug/L	91	75 - 125				04/23/14
Bromodichloromethane	75-27-4		25	ug/L	101.4	75 - 125				04/23/14
1,2-Dichloropropane	78-87-5		26	ug/L	102.8	75 - 125				04/23/14
1,1,2-Trichloroethane	79-00-5		26	ug/L	103.3	75 - 125				04/23/14
1,1,2,2-Tetrachloroethane	79-34-5		25	ug/L	99.8	75 - 125				04/23/14
MS			**QC Sample #109422**							
			Original 140706004							
1,1-Dichloroethene	75-35-4		20	ug/L	81.8	75 - 125				04/23/14
Trichloroethene	79-01-6		25	ug/L	98.3	75 - 125				04/23/14
Benzene	71-43-2		26	ug/L	102.2	75 - 125				04/23/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Toluene	108-88-3		26	ug/L	103.6	75 - 125				04/23/14
Chlorobenzene	108-90-7		25	ug/L	99	75 - 125				04/23/14
1,1-Dichloroethane	75-34-3		24	ug/L	97.6	75 - 125				04/23/14
Ethylbenzene	100-41-4		26	ug/L	102.4	75 - 125				04/23/14
Styrene	100-42-5		25	ug/L	101.9	75 - 125				04/23/14
trans-1,3-Dichloropropene	10061-02-6		24	ug/L	96.1	75 - 125				04/23/14
1,2-Dichloroethane	107-06-2		24	ug/L	97.6	75 - 125				04/23/14
1,1,1-Trichloroethane	71-55-6		24	ug/L	95.2	75 - 125				04/23/14
Dibromochloromethane	124-48-1		25	ug/L	101	75 - 125				04/23/14
Carbon disulfide	75-15-0		21	ug/L	82.6	75 - 125				04/23/14
Bromoform	75-25-2		24	ug/L	97.6	75 - 125				04/23/14
Bromodichloromethane	75-27-4		27	ug/L	106.5	75 - 125				04/23/14
1,2-Dichloropropane	78-87-5		26	ug/L	105.3	75 - 125				04/23/14
1,1,2-Trichloroethane	79-00-5		27	ug/L	107.2	75 - 125				04/23/14
1,1,2,2-Tetrachloroethane	79-34-5		27	ug/L	108.4	75 - 125				04/23/14
MSD			**QC Sample #109423**							
			Original 140706004						**Paired 109422**	
1,1-Dichloroethene	75-35-4		20	ug/L	81.2	75 - 125	0.70	20		04/23/14
Trichloroethene	79-01-6		24	ug/L	95	75 - 125	2.80	20		04/23/14
Benzene	71-43-2		25	ug/L	99.8	75 - 125	2.40	20		04/23/14
Toluene	108-88-3		25	ug/L	100.2	75 - 125	3.40	20		04/23/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Chlorobenzene	108-90-7		24	ug/L	95.8	75 - 125	3.30	20		04/23/14
1,1-Dichloroethane	75-34-3		24	ug/L	95	75 - 125	2.60	20		04/23/14
Ethylbenzene	100-41-4		25	ug/L	100.2	75 - 125	2.20	20		04/23/14
Styrene	100-42-5		25	ug/L	100.2	75 - 125	1.70	20		04/23/14
trans-1,3-Dichloropropene	10061-02-6		23	ug/L	92.5	75 - 125	3.80	20		04/23/14
1,2-Dichloroethane	107-06-2		24	ug/L	94.4	75 - 125	3.30	20		04/23/14
1,1,1-Trichloroethane	71-55-6		23	ug/L	92.4	75 - 125	3.00	20		04/23/14
Dibromochloromethane	124-48-1		25	ug/L	98.6	75 - 125	2.50	20		04/23/14
Carbon disulfide	75-15-0		21	ug/L	82.6	75 - 125	0.00	20		04/23/14
Bromoform	75-25-2		23	ug/L	93.4	75 - 125	4.40	20		04/23/14
Bromodichloromethane	75-27-4		26	ug/L	102.9	75 - 125	3.40	20		04/23/14
1,2-Dichloropropane	78-87-5		26	ug/L	103.7	75 - 125	1.50	20		04/23/14
1,1,2-Trichloroethane	79-00-5		26	ug/L	103.8	75 - 125	3.30	20		04/23/14
1,1,2,2-Tetrachloroethane	79-34-5		26	ug/L	102.2	75 - 125	5.80	20		04/23/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Radiochemistry

Group # WSCF140727

Analytical Batch 232254 (QC Batch: 232167) **Test** Tritium by LSC
Associated Samples 140727004

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109342**							
Tritium	10028-17-8		-160	pCi/L					U	04/28/14
LCS			**QC Sample #109343**							
Tritium	10028-17-8		3500	pCi/L	91.7	80 - 120				04/28/14
DUP			**QC Sample #109344**							
			Original 140718001							
Tritium	10028-17-8		1200	pCi/L			6.10	20		04/28/14
MSPK			**QC Sample #109345**							
Tritium	10028-17-8		20000	pCi/L	95.2	75 - 125				04/28/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Analytical Batch 232542 (QC Batch: 232462)
Associated Samples 140727004

Test ICP-2008 MS All possible metal

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109581**							
Aluminum	7429-90-5		<10	ug/L					U	04/29/14
Manganese	7439-96-5		<0.10	ug/L					U	04/29/14
Nickel	7440-02-0		<0.10	ug/L					U	04/29/14
Barium	7440-39-3		<0.20	ug/L					U	04/29/14
Cadmium	7440-43-9		<0.050	ug/L					U	04/29/14
Chromium	7440-47-3		<0.10	ug/L					U	04/29/14
Cobalt	7440-48-4		<0.050	ug/L					U	04/29/14
Copper	7440-50-8		<0.10	ug/L					U	04/29/14
Vanadium	7440-62-2		<0.20	ug/L					U	04/29/14
Lead	7439-92-1		<0.050	ug/L					U	04/29/14
Mercury	7439-97-6		<0.050	ug/L					U	04/29/14
Strontium	7440-24-6		<0.20	ug/L					U	04/29/14
Uranium	7440-61-1		<0.050	ug/L					U	04/29/14
Arsenic	7440-38-2		<0.20	ug/L					U	04/29/14
LCS			**QC Sample #109582**							
Aluminum	7429-90-5		386	ug/L	96.6	85 - 115				04/29/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Manganese	7439-96-5		42.1	ug/L	105.2	85 - 115				04/29/14
Nickel	7440-02-0		42.0	ug/L	105	85 - 115				04/29/14
Barium	7440-39-3		40.7	ug/L	101.8	85 - 115				04/29/14
Cadmium	7440-43-9		40.2	ug/L	100.4	85 - 115				04/29/14
Chromium	7440-47-3		42.1	ug/L	105.2	85 - 115				04/29/14
Cobalt	7440-48-4		42.6	ug/L	106.5	85 - 115				04/29/14
Copper	7440-50-8		41.9	ug/L	104.7	85 - 115				04/29/14
Vanadium	7440-62-2		42.4	ug/L	105.9	85 - 115				04/29/14
Lead	7439-92-1		40.9	ug/L	102.2	85 - 115				04/29/14
Mercury	7439-97-6		2.09	ug/L	104.5	85 - 115				04/29/14
Strontium	7440-24-6		408	ug/L	102.1	85 - 115				04/29/14
Uranium	7440-61-1		40.5	ug/L	101.3	85 - 115				04/29/14
Arsenic	7440-38-2		39.9	ug/L	99.8	85 - 115				04/29/14
MS			**QC Sample #109583**							
			Original 140582003							
Aluminum	7429-90-5		355	ug/L	88.7	70 - 130				04/29/14
Manganese	7439-96-5		39.8	ug/L	99.5	70 - 130				04/29/14
Nickel	7440-02-0		37.7	ug/L	94.3	70 - 130				04/29/14
Barium	7440-39-3		39.2	ug/L	98.1	70 - 130				04/29/14
Cadmium	7440-43-9		40.9	ug/L	102.3	70 - 130				04/29/14
Chromium	7440-47-3		39.3	ug/L	98.3	70 - 130				04/29/14
Cobalt	7440-48-4		38.8	ug/L	97	70 - 130				04/29/14
Copper	7440-50-8		37.6	ug/L	94	70 - 130				04/29/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Vanadium	7440-62-2		40.5	ug/L	101.2	70 - 130				04/29/14
Lead	7439-92-1		39.9	ug/L	99.8	70 - 130				04/29/14
Mercury	7439-97-6		2.19	ug/L	109.4	70 - 130				04/29/14
Strontium	7440-24-6		399	ug/L	99.7	70 - 130				04/29/14
Uranium	7440-61-1		41.2	ug/L	103	70 - 130				04/29/14
Arsenic	7440-38-2		41.1	ug/L	102.7	70 - 130				04/29/14
MSD			**QC Sample #109584**							
			Original 140582003					**Paired**	**109583**	
Aluminum	7429-90-5		404	ug/L	100.9	70 - 130	12.80	20		04/29/14
Manganese	7439-96-5		41.3	ug/L	103.2	70 - 130	3.70	20		04/29/14
Nickel	7440-02-0		41.4	ug/L	103.5	70 - 130	9.30	20		04/29/14
Barium	7440-39-3		42.5	ug/L	106.4	70 - 130	3.10	20		04/29/14
Cadmium	7440-43-9		40.9	ug/L	102.2	70 - 130	0.20	20		04/29/14
Chromium	7440-47-3		44.4	ug/L	110.9	70 - 130	6.50	20		04/29/14
Cobalt	7440-48-4		41.9	ug/L	104.8	70 - 130	7.80	20		04/29/14
Copper	7440-50-8		40.7	ug/L	101.8	70 - 130	8.00	20		04/29/14
Vanadium	7440-62-2		44.8	ug/L	112	70 - 130	6.40	20		04/29/14
Lead	7439-92-1		39.3	ug/L	98.3	70 - 130	1.50	20		04/29/14
Mercury	7439-97-6		2.09	ug/L	104.6	70 - 130	4.50	20		04/29/14
Strontium	7440-24-6		400	ug/L	100.1	70 - 130	0.20	20		04/29/14
Uranium	7440-61-1		40.5	ug/L	101.2	70 - 130	1.70	20		04/29/14
Arsenic	7440-38-2		41.1	ug/L	102.8	70 - 130	0.10	20		04/29/14

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140727

Analytical Batch 232784 (QC Batch: 232163)
Associated Samples 140727004

Test ICP-6010 - All possible metals

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109326**							
Iron	7439-89-6		<40	ug/L					U	05/05/14
Magnesium	7439-95-4		<60	ug/L					U	05/05/14
Calcium	7440-70-2		<50	ug/L					U	05/05/14
LCS			**QC Sample #109328**							
Iron	7439-89-6		1100	ug/L	110.5	80 - 120				05/05/14
Magnesium	7439-95-4		9830	ug/L	98.3	80 - 120				05/05/14
Calcium	7440-70-2		19700	ug/L	98.7	80 - 120				05/05/14
MS			**QC Sample #109329**							
			Original 140723001							
Iron	7439-89-6		997	ug/L	99.7	75 - 125				05/05/14
Magnesium	7439-95-4		9850	ug/L	98.5	75 - 125				05/05/14
Calcium	7440-70-2		17300	ug/L	86.3	75 - 125			X	05/05/14
MSD			**QC Sample #109330**							
			Original 140723001					**Paired**	**109329**	
Iron	7439-89-6		992	ug/L	99.2	75 - 125	0.50	20		05/05/14
Magnesium	7439-95-4		8560	ug/L	85.6	75 - 125	2.90	20		05/05/14
Calcium	7440-70-2		14700	ug/L	73.6	75 - 125	1.80	20	X	05/05/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Radiochemistry

Group # WSCF140727

Analytical Batch 232877 (QC Batch: 232870)
Associated Samples 140727004

Test Technetium-99 by ICP MS

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109870**							
Technetium-99	14133-76-7		<0.0010	ug/L					U	05/06/14
LCS			**QC Sample #109871**							
Technetium-99	14133-76-7		0.054	ug/L	100.7	85 - 115				05/06/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Analytical Batch 232252 (QC Batch: 232251)
Associated Samples 140727002, 140727003

Test SW-846 8260B Volatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #109420**							
1,2-Dichloroethane-d4	17060-07-0				100.8	75 - 125				04/23/14
Toluene-d8	2037-26-5				102.4	75 - 125				04/23/14
4-Bromofluorobenzene	460-00-4				103.1	75 - 125				04/23/14
LCS			**QC Sample #109421**							
1,2-Dichloroethane-d4	17060-07-0				101.9	75 - 125				04/23/14
Toluene-d8	2037-26-5				104.6	75 - 125				04/23/14
4-Bromofluorobenzene	460-00-4				105.3	75 - 125				04/23/14
MS			**QC Sample #109422**							
			Original 140706004							
1,2-Dichloroethane-d4	17060-07-0				104.8	75 - 125				04/23/14
Toluene-d8	2037-26-5				101.7	75 - 125				04/23/14
4-Bromofluorobenzene	460-00-4				105.6	75 - 125				04/23/14
MSD			**QC Sample #109423**							
			Original 140706004					**Paired**	**109422**	
1,2-Dichloroethane-d4	17060-07-0				104.4	75 - 125	n/a			04/23/14

* - QC result out of range n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF140727

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Toluene-d8	2037-26-5				100.6	75 - 125	n/a			04/23/14
4-Bromofluorobenzene	460-00-4				104.6	75 - 125	n/a			04/23/14
SAMPLE			**Sample #140727002**							
1,2-Dichloroethane-d4	17060-07-0				103.4	75 - 125				04/23/14
Toluene-d8	2037-26-5				103	75 - 125				04/23/14
4-Bromofluorobenzene	460-00-4				107.5	75 - 125				04/23/14
SAMPLE			**Sample #140727003**							
1,2-Dichloroethane-d4	17060-07-0				106.8	75 - 125				04/23/14
Toluene-d8	2037-26-5				103	75 - 125				04/23/14
4-Bromofluorobenzene	460-00-4				107.3	75 - 125				04/23/14

* - QC result out of range n/a - Not Applicable

Analytical Comment Report

Attention: Scot Fitzgerald

Group # WSCF140727

Quality Control Comments

Department Inorganic

109329 B2V2Y7(140723001MS)

Analyte Calcium - ICP-6010 - All possible metals

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

109330 B2V2Y7(140723001MSD)

Analyte Calcium - ICP-6010 - All possible metals

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 7 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
CACN: 403857
Work Order #: 140727
Customer Work ID: F14-003-117
Due Date: 05/22/2014 **(7H,C0**

The following samples were received from you on 4/22/2014 9:55:00 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
140727001	B2W2R0	WATER	4/22/2014 09:01	4/22/2014 09:55

Procedure	Compound List
Hexavalent chromium Discrete Analyzer	Cr6

Sample #	Sample ID	Matrix	Collected	Received
140727002	B2W2P9	WATER	4/22/2014 09:01	4/22/2014 09:55

Procedure	Compound List
SW-846 8260B Volatiles	8260 GCMS Common + CH01

Sample #	Sample ID	Matrix	Collected	Received
140727003	B2W2X7	WATER	4/22/2014 09:01	4/22/2014 09:55

Procedure	Compound List
SW-846 8260B Volatiles	8260 GCMS Common + CH01

Sample #	Sample ID	Matrix	Collected	Received
140727004	B2W2R1	WATER	4/22/2014 09:01	4/22/2014 09:55

Procedure	Compound List
Anions by Ion Chromatography (Water)	NO3
ICP-2008 MS All possible metal	Al,Mn,Ni,Ba,Cd,Cr,Co,Cu,V,Pb,Hg,Sr,U,As
ICP-6010 - All possible metals	Fe,Mg,Ca
Technetium-99 by ICP MS	Tc-99
Tritium by LSC	H3

Sample Receipt

Chain of Custody

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F14-003-117	PAGE 1 OF 1
COLLECTOR: Robert Crow	COMPANY CONTACT: TODAK, D	TELEPHONE NO.: 376-6427	PROJECT COORDINATOR: TODAK, D	PRICE CODE: 7H	DATA TURNAROUND
SAMPLING LOCATION: C8716, I-005	PROJECT DESIGNATION: FY2014 200-ZP-1 Remedial Action Wells Sampling and Analysis - Water		SAF NO.: F14-003	AIR QUALITY: ☐	30 Days / 30 Days
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-507-28-18	ACTUAL SAMPLE DEPTH: 354.99 ft	COA: 302938ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

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

SPECIAL HANDLING AND/OR STORAGE: 140727

PRESERVATION	Cool-4C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	7196_CR6; COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2W2R0	WATER	APR 22 2014	0901	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Robert Crow R Crow	DATE/TIME: APR 22 2014 955	RECEIVED BY/STORED IN: K FORSBY	DATE/TIME: APR 22 2014 955
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The CACN for all analytical work at WSCF laboratory is 403857.** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** VOA analysis will be conducted with a 24 hour turnaround time on preliminary data. The VOA samples will be placed on a separate COC.** Cr VI holding times MUST BE MET. Sample Management Project Coordinator must be contacted immediately if there is a problem.** The laboratory is to report all HICs for Method 8260. TRVL-14-059

TRVL 14- 059

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 2/10/2014

A-6003-618 (REV 2)

Sample Receipt

Chain of Custody

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F14-003-116	PAGE 1 OF 1
COLLECTOR: Robert Crow	COMPANY CONTACT: TODAK, D	TELEPHONE NO.: 376-6427	PROJECT COORDINATOR: TODAK, D	PRICE CODE: C08	DATA TURNAROUND
SAMPLING LOCATION: C8716, I-005	PROJECT DESIGNATION: FY2014 200-ZP-1 Remedial Action Wells Sampling and Analysis - Water		SAF NO.: F14-003	AIR QUALITY: ☐	24 Hours / 30 days
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-507-28.18	ACTUAL SAMPLE DEPTH: 354.99	COA: 302938ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	8260_VOA_GCM S: COMMON; 8260_VOA_GCM S: Cr 01;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2W2P9 2	WATER	APR 22 2014	0901	✓

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Robert Crow R Crow	APR 22 2014 9:55	K FRISBY	APR 22 2014 955
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The CACN for all analytical work at WSCF aboratory is 403857.** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** VOA analysis will be conducted with a 24 hour turnaround time on preliminary data. The VOA samples will be placed on a separate COC.** Cr VI holding times MUST BE MET. Sample Management Project Coordinator must be contacted immediately if there is a problem.** The laboratory s to report all TICs for Method 8260. TRVL-14-059

TRVL- 14- 059

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 2/10/2014

A-6003-018 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F14-003-164	PAGE 1 OF 1
COLLECTOR: Robert Crow	COMPANY CONTACT: TODAK, D	TELEPHONE NO.: 376-6427	PROJECT COORDINATOR: TODAK, D	PRICE CODE: 7H	DATA TURNAROUND
SAMPLING LOCATION: C8716, FKR-6	PROJECT DESIGNATION: FY2014 200-ZP-1 Remedial Action Wells Sampling and Analysis - Water		SAF NO.: F14-003	AIR QUALITY: ☐	30 Days / 30 Days
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-507-28-18	ACTUAL SAMPLE DEPTH: (N/A)	COA: 302938ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH
HOLDING TIME	14 Days
TYPE OF CONTAINER	8oS*
NO. OF CONTAINER(S)	3
VOLUME	40ml
SAMPLE ANALYSIS	8260_VOA_GCM S: COMMON; 8260_VOA_GCM S: CH 01;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B2W2X7 3	WATER	APR 22 2014	0901	✓

Chain of Custody

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Robert Crow R Crow	DATE/TIME: APR 22 2014 955	RECEIVED BY/STORED IN: K FRISBY	DATE/TIME: APR 22 2014 955
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The CACN for all analytical work at WSCF laboratory is 403857.** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** VOA analysis will be conducted with a 24 hour turnaround time on preliminary data. The VOA samples will be placed on a separate COC.** Cr VI holding times MUST BE MET. Sample Management Project Coordinator must be contacted immediately if there is a problem.** The laboratory is to report all TICs for Method 8260. TRVL-14-059

TRVL 14- 059

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 2/10/2014

4-6008-618 (REV 2)

Sample Receipt

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F14-003-118	PAGE 1 OF 2
COLLECTOR: Robert Crow	COMPANY CONTACT: TODAK, D	TELEPHONE NO.: 376-6427	PROJECT COORDINATOR: TODAK, D	PRICE CODE: 7H	DATA TURNAROUND
SAMPLING LOCATION: C8716, 1-006	PROJECT DESIGNATION: Pr2014 200-ZP-1 Remedial Action Wells Sampling and Analysis - Water		SAF NO.: F14-003	AIR QUALITY: ☐	30 Days / 30 Days
ICE CHEST NO.: N/A	FIELD LOGBOOK NO.: HNF-N-507-18-18	ACTUAL SAMPLE DEPTH: 354.99 ft	COA: 302938ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO: Waste Sampling & Characterization	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*: A=Air, DI=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegetation, W=Water, WI=Wipe, X=Other

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2	Cool-4C	HNO3 to pH <2 (ULTREX)	None
HOLDING TIME	28 Days	48 Hours	None	6 Months
TYPE OF CONTAINER	G	P	Nalgene	G
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	500mL	500mL	500mL	250mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	300.0_ANIONS_IC, COMMON (Nitrogen in Nitrate);	RADIO_ICPMS, COMMON (Technetium 99);	TRITIUM_EIC_LSC, COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B2W2R1 4	WATER	APR 22 2014	0901	✓	✓	✓	✓

Chain of Custody

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Robert Crow R Crow	DATE/TIME: APR 22 2014 955	RECEIVED BY/STORED IN: K R Isom	DATE/TIME: APR 22 2014 955
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

TRL 14- 059

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 2/10/2014

A-6003-6.8 (REV 2)

Sample Receipt

Chain of Custody

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F14-003-118	PAGE 2 OF 2
COLLECTOR Robert Grow	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 7H AIR QUALITY ☐	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C8716, I-006	PROJECT DESIGNATION FY2014 200-ZP-1 Remedial Action Wells Sampling and Analysis - Water		SAF NO. F14-003		
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-507-28 - 18	ACTUAL SAMPLE DEPTH 354.99	COA 302938ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** The CACN for all analytical work at WSCF laboratory is 403857.** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** VOA analysis will be conducted with a 24 hour turnaround time on preliminary data. The VOA samples will be placed on a separate COC.** Cr VI holding times MUST BE MET. Sample Management Project Coordinator must be contacted immediately if there is a problem.** The laboratory is to report all TICs for Method 8260. TRVL-14-059
(1) 200.8_MERCURY: COMMON; 200.8_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Cobalt, Copper, Lead}; 200.8_METALS_ICPMS: COMMON (Add-on) {Arsenic, Manganese, Nickel, Strontium, Uranium, Vanadium}; 6010_METALS_ICP: COMMON {Calcium, Iron, Magnesium};

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