

DECEMBER 10, 2012

**WSCF Laboratory**

PO Box 650 S3-30  
Richland, WA 99352



December 10, 2012

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

Dear Scot Fitzgerald,

**FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF121492**

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 WSCF121492

- \* 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

ATTACHMENT 1

**COVER SHEET**

Consisting of 2 pages  
Including cover page

**WSCF SAF Number Cross Reference**

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Group # WSCF121492

Data Deliverable Date 12/26/12

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
S13-012	B2MYF0	121492001	WATER	11/20/12	11/20/12
S13-012	B2MYC6	121492002	WATER	11/20/12	11/20/12
S13-012	B2MY19	121492003	WATER	11/20/12	11/20/12
S13-012	B2MY25	121492004	WATER	11/20/12	11/20/12
S13-012	B2MY29	121492005	WATER	11/20/12	11/20/12
S13-012	B2MY43	121492006	WATER	11/20/12	11/20/12
S13-012	B2MYD9	121492007	WATER	11/20/12	11/20/12
S13-012	B2MY18	121492008	WATER	11/20/12	11/20/12
S13-012	B2MY24	121492009	WATER	11/20/12	11/20/12
S13-012	B2MY28	121492010	WATER	11/20/12	11/20/12
S13-012	B2MY42	121492011	WATER	11/20/12	11/20/12
S13-012	B2N0V5	121492012	WATER	11/20/12	11/20/12
S13-012	B2N193	121492013	WATER	11/20/12	11/20/12
S13-012	B2N0R5	121492014	WATER	11/20/12	11/20/12
S13-012	B2N0R1	121492015	WATER	11/20/12	11/20/12
S13-012	B2N189	121492016	WATER	11/20/12	11/20/12
S13-012	B2N185	121492017	WATER	11/20/12	11/20/12
S13-012	B2N1B1	121492018	WATER	11/20/12	11/20/12
S13-012	B2N1B5	121492019	WATER	11/20/12	11/20/12

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), Master Contract 39818, Revision 3, "Laboratory Analytical Services to CHPRC Soil and Groundwater Remediation Project."*

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.

### Analytical Methodology for Requested Analyses

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

### Inorganic Comments

Attachment 2  
**Narrative**  
WSCF121492

**Anions** – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Batch QC 210718
  - Fluoride – Duplicate Relative Percent Difference(s) (RPD) did not meet the established laboratory limits. Duplicate Relative Percent Difference (RPD) does not apply to results near or below the minimum detectable level. No flags issued.
  - All other 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.

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.

ATTACHMENT 3

**ANALYTICAL RESULTS**

Consisting of 32 pages  
Including cover page

DECEMBER 10, 2012

**WSCF ANALYTICAL RESULTS REPORT**

For

CH2M Hill Plateau Remediation

PO Box 1600  
Richland, WA 99352

Attention: Scot Fitzgerald

**Contract #** MOA-FH-CHPRC-2008  
**Group #** WSCF121492  
**Report Date** December 10, 2012

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 # WSCF121492

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210717	210717	2	BLANK	85373	BLANK		Anions by Ion Chromatography (Water)
210717	210717	3	LCS	85374	LCS		Anions by Ion Chromatography (Water)
210717	210717	4	DUP	85375	B2MLL1(121490016DUP)	121490016	Anions by Ion Chromatography (Water)
210717	210717	5	MS	85376	B2MLL1(121490016MS)	121490016	Anions by Ion Chromatography (Water)
210717	210717	6	MSD	85377	B2MLL1(121490016MSD)	121490016	Anions by Ion Chromatography (Water)
210717	210717	9	SAMPLE	121492007	B2MYD9		Anions by Ion Chromatography (Water)
210717	210717	10	SAMPLE	121492008	B2MY18		Anions by Ion Chromatography (Water)
210717	210717	11	SAMPLE	121492009	B2MY24		Anions by Ion Chromatography (Water)
210717	210717	12	SAMPLE	121492010	B2MY28		Anions by Ion Chromatography (Water)
210717	210717	13	SAMPLE	121492011	B2MY42		Anions by Ion Chromatography (Water)
210717	210717	14	SAMPLE	121492012	B2N0V5		Anions by Ion Chromatography (Water)
210717	210717	15	SAMPLE	121492013	B2N193		Anions by Ion Chromatography (Water)
210717	210717	16	SAMPLE	121492014	B2N0R5		Anions by Ion Chromatography (Water)
210717	210717	17	SAMPLE	121492015	B2N0R1		Anions by Ion Chromatography (Water)
210718	210718	2	BLANK	85380	BLANK		Anions by Ion Chromatography (Water)
210718	210718	3	LCS	85381	LCS		Anions by Ion Chromatography (Water)
210718	210718	4	DUP	85382	B2MLB3(121490017DUP)	121490017	Anions by Ion Chromatography (Water)
210718	210718	5	MS	85383	B2MLB3(121490017MS)	121490017	Anions by Ion Chromatography (Water)
210718	210718	6	MSD	85384	B2MLB3(121490017MSD)	121490017	Anions by Ion Chromatography (Water)
210718	210718	9	SAMPLE	121492016	B2N189		Anions by Ion Chromatography (Water)
210718	210718	10	SAMPLE	121492017	B2N185		Anions by Ion Chromatography (Water)
210718	210718	11	SAMPLE	121492018	B2N1B1		Anions by Ion Chromatography (Water)
210718	210718	12	SAMPLE	121492019	B2N1B5		Anions by Ion Chromatography (Water)

Batch QC List

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210816	210816	1	BLANK	85530	BLANK		Hexavalent chromium Discrete Analyzer
210816	210816	3	LCS	85532	LCS		Hexavalent chromium Discrete Analyzer
210816	210816	4	DUP	85533	B2MYC6(121492002DUP	121492002	Hexavalent chromium Discrete Analyzer
210816	210816	5	MS	85534	B2MYC6(121492002MS)	121492002	Hexavalent chromium Discrete Analyzer
210816	210816	6	SAMPLE	121492001	B2MYF0		Hexavalent chromium Discrete Analyzer
210816	210816	7	SAMPLE	121492002	B2MYC6		Hexavalent chromium Discrete Analyzer
210816	210816	8	SAMPLE	121492003	B2MY19		Hexavalent chromium Discrete Analyzer
210816	210816	9	SAMPLE	121492004	B2MY25		Hexavalent chromium Discrete Analyzer
210816	210816	10	SAMPLE	121492005	B2MY29		Hexavalent chromium Discrete Analyzer
210816	210816	11	SAMPLE	121492006	B2MY43		Hexavalent chromium Discrete Analyzer

Method Reference

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

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.

<b>LA-265-403</b>	Hexavalent Chromium Analysis		
	EPA SW-846	7196A	Hexavalent Chromium
	HEIS	7196_CR6	Hexavalent Chromium
<b>LA-533-410</b>	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>

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492001  
 SAF# S13-012  
 Sample ID B2MYF0

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/20/12
<b>Hexavalent chromium Discrete Analyzer</b>										
Hexavalent chromium	18540-29-9	LA-265-403		0.0579		mg/L	1	0.0020	0.0050	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492002  
 SAF# S13-012  
 Sample ID B2MYC6

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/20/12
<b>Hexavalent chromium Discrete Analyzer</b>										
Hexavalent chromium	18540-29-9	LA-265-403		0.0505		mg/L	1	0.0020	0.0050	11/20/12

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.  
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Attention Scot Fitzgerald  
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Group # WSCF121492

Sample # 121492003  
 SAF# S13-012  
 Sample ID B2MY19

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/20/12
<b>Hexavalent chromium Discrete Analyzer</b>										
Hexavalent chromium	18540-29-9	LA-265-403		0.0120		mg/L	1	0.0020	0.0050	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492004  
 SAF# S13-012  
 Sample ID B2MY25

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/20/12
<b>Hexavalent chromium Discrete Analyzer</b>										
Hexavalent chromium	18540-29-9	LA-265-403		0.0111		mg/L	1	0.0020	0.0050	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492005  
 SAF# S13-012  
 Sample ID B2MY29

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/20/12
<b>Hexavalent chromium Discrete Analyzer</b>										
Hexavalent chromium	18540-29-9	LA-265-403		0.00730		mg/L	1	0.0020	0.0050	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492006  
 SAF# S13-012  
 Sample ID B2MY43

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/20/12
<b>Hexavalent chromium Discrete Analyzer</b>										
Hexavalent chromium	18540-29-9	LA-265-403	B	0.00210		mg/L	1	0.0020	0.0050	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492007  
 SAF# S13-012  
 Sample ID B2MYD9

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
<b>11/20/12</b>										
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	BD	0.117		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	16.8		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	12.8		ug/mL	2	0.038	0.20	11/20/12
Sulfate	14808-79-8	LA-533-410	D	158		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492008  
 SAF# S13-012  
 Sample ID B2MY18

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/20/12
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.168		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	9.93		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	3.73		ug/mL	2	0.038	0.20	11/20/12
Sulfate	14808-79-8	LA-533-410	D	48.3		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492009  
 SAF# S13-012  
 Sample ID B2MY24

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.264		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	4.51		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	1.40		ug/mL	2	0.038	0.20	11/20/12
Sulfate	14808-79-8	LA-533-410	D	87.1		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492010  
 SAF# S13-012  
 Sample ID B2MY28

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	BD	0.115		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	9.61		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	BD	0.102		ug/mL	2	0.038	0.20	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	2.55		ug/mL	2	0.038	0.20	11/20/12
Sulfate	14808-79-8	LA-533-410	D	78.5		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492011  
 SAF# S13-012  
 Sample ID B2MY42

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
<b>11/20/12</b>										
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	BD	0.0891		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	1.25		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	BD	0.0464		ug/mL	2	0.038	0.20	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	1.02		ug/mL	2	0.038	0.20	11/20/12
Sulfate	14808-79-8	LA-533-410	D	14.4		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492012  
 SAF# S13-012  
 Sample ID B2N0V5

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.315		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	20.5		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.96	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	5.36		ug/mL	2	0.038	0.20	11/20/12
Phosphate-P	PO4-P	LA-533-410	UD	<0.084		ug/mL	2	0.084	0.72	11/20/12
Sulfate	14808-79-8	LA-533-410	D	52.4		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492013  
 SAF# S13-012  
 Sample ID B2N193

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.222		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	24.9		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	6.89		ug/mL	2	0.038	0.20	11/20/12
Sulfate	14808-79-8	LA-533-410	D	43.5		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492014  
 SAF# S13-012  
 Sample ID B2N0R5

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.341		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	20.2		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.96	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	5.73		ug/mL	2	0.038	0.20	11/20/12
Phosphate-P	PO4-P	LA-533-410	UD	<0.084		ug/mL	2	0.084	0.72	11/20/12
Sulfate	14808-79-8	LA-533-410	D	46.3		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492015  
 SAF# S13-012  
 Sample ID B2N0R1

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
<b>11/20/12</b>										
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.291		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	17.3		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.96	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	5.63		ug/mL	2	0.038	0.20	11/20/12
Phosphate-P	PO4-P	LA-533-410	UD	<0.084		ug/mL	2	0.084	0.72	11/20/12
Sulfate	14808-79-8	LA-533-410	D	44.1		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492016  
 SAF# S13-012  
 Sample ID B2N189

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.255		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	19.6		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.96	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	6.07		ug/mL	2	0.038	0.20	11/20/12
Phosphate-P	PO4-P	LA-533-410	UD	<0.084		ug/mL	2	0.084	0.72	11/20/12
Sulfate	14808-79-8	LA-533-410	D	40.7		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492017  
 SAF# S13-012  
 Sample ID B2N185

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.225		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	20.7		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.96	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	5.57		ug/mL	2	0.038	0.20	11/20/12
Phosphate-P	PO4-P	LA-533-410	UD	<0.084		ug/mL	2	0.084	0.72	11/20/12
Sulfate	14808-79-8	LA-533-410	D	38.9		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492018  
 SAF# S13-012  
 Sample ID B2N1B1

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										<b>11/20/12</b>
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.239		ug/mL	2	0.046	0.14	11/20/12
Chloride	16887-00-6	LA-533-410	D	23.4		ug/mL	2	0.12	0.81	11/20/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/20/12
Nitrate-N	NO3-N	LA-533-410	D	6.39		ug/mL	2	0.038	0.20	11/20/12
Sulfate	14808-79-8	LA-533-410	D	41.1		ug/mL	2	0.22	2.1	11/20/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Sample # 121492019  
 SAF# S13-012  
 Sample ID B2N1B5

Matrix WATER  
 Sampled 11/20/12  
 Received 11/20/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
<b>11/21/12</b>										
<b>Anions by Ion Chromatography (Water)</b>										
Fluoride	16984-48-8	LA-533-410	D	0.415		ug/mL	2	0.046	0.14	11/21/12
Chloride	16887-00-6	LA-533-410	D	9.34		ug/mL	2	0.12	0.81	11/21/12
Nitrite-N	NO2-N	LA-533-410	BD	0.0813		ug/mL	2	0.038	0.20	11/21/12
Nitrate-N	NO3-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/21/12
Sulfate	14808-79-8	LA-533-410	UD	<0.22		ug/mL	2	0.22	2.1	11/21/12

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.  
 o - LCS recovery outside established laboratory acceptance limits.

**Quality Control Report**

**Attention** Scot Fitzgerald  
**Department** Inorganic

**Group #** WSCF121492

**Analytical Batch** 210717 (QC Batch: 210717)      **Test** Anions by Ion Chromatography (Water)  
**Associated Samples** 121492007, 121492008, 121492009, 121492010, 121492011, 121492012, 121492013, 121492014, 121492015

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
<b>BLANK</b>		<b>QC Sample #85373</b>								
Fluoride	16984-48-8	<0.023		ug/mL					U	11/20/12
Chloride	16887-00-6	<0.058		ug/mL					U	11/20/12
Nitrite-N	NO2-N	<0.019		ug/mL					U	11/20/12
Bromide	24959-67-9	<0.11		ug/mL					U	11/20/12
Nitrate-N	NO3-N	<0.019		ug/mL					U	11/20/12
Phosphate-P	PO4-P	<0.042		ug/mL					U	11/20/12
Sulfate	14808-79-8	<0.11		ug/mL					U	11/20/12
<b>LCS</b>		<b>QC Sample #85374</b>								
Fluoride	16984-48-8	0.977		ug/mL	98.7	90 - 110				11/20/12
Chloride	16887-00-6	1.97		ug/mL	99.6	90 - 110				11/20/12
Nitrite-N	NO2-N	1.03		ug/mL	105.3	90 - 110				11/20/12
Bromide	24959-67-9	4.03		ug/mL	102.9	90 - 110				11/20/12
Nitrate-N	NO3-N	0.906		ug/mL	102.4	90 - 110				11/20/12
Phosphate-P	PO4-P	1.98		ug/mL	103.4	90 - 110				11/20/12
Sulfate	14808-79-8	4.06		ug/mL	103.4	90 - 110				11/20/12
<b>DUP</b>		<b>QC Sample #85375</b> <b>Original 121490016</b>								

\* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Fluoride	16984-48-8		0.0522	ug/mL			13.90	20	BD	11/20/12
Chloride	16887-00-6		0.749	ug/mL			1.40	20	BD	11/20/12
Nitrite-N	NO2-N		<0.038	ug/mL			0.00	20	UD	11/20/12
Bromide	24959-67-9		<0.22	ug/mL			0.00	20	UD	11/20/12
Nitrate-N	NO3-N		0.348	ug/mL			1.40	20	D	11/20/12
Phosphate-P	PO4-P		<0.084	ug/mL			0.00	20	UD	11/20/12
Sulfate	14808-79-8		8.91	ug/mL			0.10	20	D	11/20/12
<b>MS</b>										
<b>QC Sample #85376</b>										
<b>Original 121490016</b>										
Fluoride	16984-48-8		1.01	ug/mL	101.4	80 - 120			D	11/20/12
Chloride	16887-00-6		1.85	ug/mL	92.3	80 - 120			D	11/20/12
Nitrite-N	NO2-N		0.977	ug/mL	98.8	80 - 120			D	11/20/12
Bromide	24959-67-9		3.93	ug/mL	99.2	80 - 120			D	11/20/12
Nitrate-N	NO3-N		0.878	ug/mL	98.2	80 - 120			D	11/20/12
Phosphate-P	PO4-P		1.97	ug/mL	102.3	80 - 120			D	11/20/12
Sulfate	14808-79-8		3.98	ug/mL	100.5	80 - 120			D	11/20/12
<b>MSD</b>										
<b>QC Sample #85377</b>										
<b>Original 121490016</b>										
<b>Paired 85376</b>										
Fluoride	16984-48-8		0.993	ug/mL	99.3	80 - 120	2.20	20	D	11/20/12
Chloride	16887-00-6		1.86	ug/mL	93	80 - 120	0.60	20	D	11/20/12
Nitrite-N	NO2-N		0.981	ug/mL	99.3	80 - 120	0.40	20	D	11/20/12
Bromide	24959-67-9		4.06	ug/mL	102.5	80 - 120	3.20	20	D	11/20/12
Nitrate-N	NO3-N		0.899	ug/mL	100.5	80 - 120	1.70	20	D	11/20/12
Phosphate-P	PO4-P		1.93	ug/mL	99.8	80 - 120	2.40	20	D	11/20/12

\* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Sulfate	14808-79-8		4.06	ug/mL	102.5	80 - 120	0.60	20	D	11/20/12

\* - QC result out of range

n/a - Not Applicable

**Quality Control Report**

**Attention** Scot Fitzgerald  
**Department** Inorganic

**Group #** WSCF121492

**Analytical Batch** 210718 (QC Batch: 210718)      **Test** Anions by Ion Chromatography (Water)  
**Associated Samples** 121492016, 121492017, 121492018, 121492019

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
<b>BLANK</b>		<b>QC Sample #85380</b>								
Fluoride	16984-48-8	<0.023		ug/mL					U	11/20/12
Chloride	16887-00-6	<0.058		ug/mL					U	11/20/12
Nitrite-N	NO2-N	<0.019		ug/mL					U	11/20/12
Bromide	24959-67-9	<0.11		ug/mL					U	11/20/12
Nitrate-N	NO3-N	<0.019		ug/mL					U	11/20/12
Phosphate-P	PO4-P	<0.042		ug/mL					U	11/20/12
Sulfate	14808-79-8	<0.11		ug/mL					U	11/20/12
<b>LCS</b>		<b>QC Sample #85381</b>								
Fluoride	16984-48-8	0.962		ug/mL	97.1	90 - 110				11/20/12
Chloride	16887-00-6	1.92		ug/mL	96.9	90 - 110				11/20/12
Nitrite-N	NO2-N	1.02		ug/mL	104.6	90 - 110				11/20/12
Bromide	24959-67-9	3.98		ug/mL	101.6	90 - 110				11/20/12
Nitrate-N	NO3-N	0.892		ug/mL	100.8	90 - 110				11/20/12
Phosphate-P	PO4-P	1.91		ug/mL	99.8	90 - 110				11/20/12
Sulfate	14808-79-8	3.89		ug/mL	99.2	90 - 110				11/20/12
<b>DUP</b>		<b>QC Sample #85382</b> <b>Original 121490017</b>								

\* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Fluoride	16984-48-8		0.0715	ug/mL			32.50	20	* BXD	11/20/12
Chloride	16887-00-6		0.886	ug/mL			0.40	20	D	11/20/12
Nitrite-N	NO2-N		<0.038	ug/mL			11.80	20	UD	11/20/12
Bromide	24959-67-9		<0.22	ug/mL			0.00	20	UD	11/20/12
Nitrate-N	NO3-N		0.143	ug/mL			3.60	20	BD	11/20/12
Phosphate-P	PO4-P		<0.084	ug/mL			0.00	20	UD	11/20/12
Sulfate	14808-79-8		9.61	ug/mL			0.40	20	D	11/20/12
<b>MS</b>										
<b>QC Sample #85383</b>										
<b>Original 121490017</b>										
Fluoride	16984-48-8		0.934	ug/mL	93.4	80 - 120			D	11/20/12
Chloride	16887-00-6		1.82	ug/mL	91.2	80 - 120			D	11/20/12
Nitrite-N	NO2-N		0.964	ug/mL	97.5	80 - 120			D	11/20/12
Bromide	24959-67-9		3.96	ug/mL	99.9	80 - 120			D	11/20/12
Nitrate-N	NO3-N		0.907	ug/mL	101.4	80 - 120			D	11/20/12
Phosphate-P	PO4-P		1.93	ug/mL	100.2	80 - 120			D	11/20/12
Sulfate	14808-79-8		3.72	ug/mL	94	80 - 120			D	11/20/12
<b>MSD</b>										
<b>QC Sample #85384</b>										
<b>Original 121490017</b>										
<b>Paired 85383</b>										
Fluoride	16984-48-8		0.952	ug/mL	95.2	80 - 120	1.80	20	D	11/20/12
Chloride	16887-00-6		1.87	ug/mL	93.6	80 - 120	1.80	20	D	11/20/12
Nitrite-N	NO2-N		0.986	ug/mL	99.8	80 - 120	2.30	20	D	11/20/12
Bromide	24959-67-9		4.07	ug/mL	102.8	80 - 120	2.80	20	D	11/20/12
Nitrate-N	NO3-N		0.934	ug/mL	104.4	80 - 120	2.50	20	D	11/20/12
Phosphate-P	PO4-P		1.93	ug/mL	99.8	80 - 120	0.30	20	D	11/20/12

\* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Sulfate	14808-79-8		4.21	ug/mL	106.4	80 - 120	3.60	20	D	11/20/12

\* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald  
 Department Inorganic

Group # WSCF121492

Analytical Batch 210816 (QC Batch: 210816) Test Hexavalent chromium Discrete Analyzer  
 Associated Samples 121492001, 121492002, 121492003, 121492004, 121492005, 121492006

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
<b>BLANK</b>										
			<b>QC Sample #85530</b>							
Hexavalent chromium	18540-29-9		<0.0020	mg/L					U	11/20/12
<b>LCS</b>			<b>QC Sample #85532</b>							
Hexavalent chromium	18540-29-9		0.0487	mg/L	97.4	90 - 110				11/20/12
<b>DUP</b>			<b>QC Sample #85533</b>							
			<b>Original 121492002</b>							
Hexavalent chromium	18540-29-9	0.0505	0.0505	mg/L			0.00	20		11/20/12
<b>MS</b>			<b>QC Sample #85534</b>							
			<b>Original 121492002</b>							
Hexavalent chromium	18540-29-9	0.0505	0.0386	mg/L	96.5	85 - 115				11/20/12

\* - QC result out of range

n/a - Not Applicable

Attention: Scot Fitzgerald

Group #

WSCF121492

Quality Control Comments

Department Inorganic

85382

B2MLB3(121490017DUP)

**Analyte** Fluoride - Anions by Ion Chromatography (Water)

- [1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

ATTACHMENT4

**SAMPLE RECEIPT**

Consisting of 22 pages  
Including cover page

**Waste Sampling and Characterization Facility**  
**P.O. Box 1970 S3-30, Richland WA 99352**  
**Phone: (509) 373-7004/FAX: (509) 373-7134**

**ACKNOWLEDGEMENT OF SAMPLES RECEIVED****WSCF Laboratory**

PO Box 650 S3-30  
 Richland, WA 99352

ATTN: Scot Fitzgerald

Customer Code: CHPRC

PO #: 401647

Work Order #: 121492

Profile #: S13-012-276

Proj. Mgr.:

Phone:

The following samples were received from you on 11/20/2012 3:00:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		<b>Tests scheduled</b>		
121492001	B2MYF0	WATER	11/20/2012 13:21	11/20/2012 15:00
		CR6DA-W		
121492002	B2MYC6	WATER	11/20/2012 13:57	11/20/2012 15:00
		CR6DA-W		
121492003	B2MY19	WATER	11/20/2012 08:33	11/20/2012 15:00
		CR6DA-W		
121492004	B2MY25	WATER	11/20/2012 09:26	11/20/2012 15:00
		CR6DA-W		
121492005	B2MY29	WATER	11/20/2012 10:59	11/20/2012 15:00
		CR6DA-W		
121492006	B2MY43	WATER	11/20/2012 10:13	11/20/2012 15:00
		CR6DA-W		
121492007	B2MYD9	WATER	11/20/2012 13:21	11/20/2012 15:00
		IC-W		
121492008	B2MY18	WATER	11/20/2012 08:33	11/20/2012 15:00
		IC-W		
121492009	B2MY24	WATER	11/20/2012 09:26	11/20/2012 15:00
		IC-W		
121492010	B2MY28	WATER	11/20/2012 10:59	11/20/2012 15:00
		IC-W		
121492011	B2MY42	WATER	11/20/2012 10:13	11/20/2012 15:00

**Waste Sampling and Characterization Facility**  
**P.O. Box 1970 S3-30, Richland WA 99352**  
**Phone: (509) 373-7004/FAX: (509) 373-7134**

IC-W				
121492012	B2N0V5	WATER	11/20/2012 10:25	11/20/2012 15:05
IC-W				
121492013	B2N193	WATER	11/20/2012 08:30	11/20/2012 15:05
IC-W				
121492014	B2N0R5	WATER	11/20/2012 11:01	11/20/2012 15:05
IC-W				
121492015	B2N0R1	WATER	11/20/2012 09:21	11/20/2012 15:05
IC-W				
121492016	B2N189	WATER	11/20/2012 12:06	11/20/2012 15:05
IC-W				
121492017	B2N185	WATER	11/20/2012 11:35	11/20/2012 15:05
IC-W				
121492018	B2N1B1	WATER	11/20/2012 13:05	11/20/2012 15:05
IC-W				
121492019	B2N1B5	WATER	11/20/2012 14:14	11/20/2012 15:05
IC-W				

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**Test Acronym Description**

Test Acronym	Description
CR6DA-W	Cr6 (W Discrete analyzer)
IC-W	Anions by IC (W)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S13-012-276  
Page 1 of 1

Collector	Robert Crow	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, DECEMBER 2012	Logbook No.	HNF-N-506 49 / 81	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	SURV	Priority:	31 Days	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
 \*\*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 3400.5 (1990/1993)

121492

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2MYFO 1	N	11-20-12	1502	1x500-ml aCG	7196_CRG: Hexavalent Chromium (1)	24 Hours	COOL-4C

**SPECIAL INSTRUCTIONS**  
 FY12 and FY13 samples cannot be in the same SDC. Site-Wide Generator Knowledge Information Form applies. The CANON for all analytical work at WSCF is 401647.

**Hold Time**

Total Activity Exemption: Yes  No

32-11-20-12

Requisitioned By	Robert Crow	Print Sign	NOV 20 2012 1502	Received By	TA Frazee	Print Sign	NOV 20 2012 1500	Matrix *
Requisitioned By		Date/Time		Received By		Date/Time		S = Soil
Requisitioned By		Date/Time		Received By		Date/Time		SE = Sediment
Requisitioned By		Date/Time		Received By		Date/Time		SO = Solid
Requisitioned By		Date/Time		Received By		Date/Time		SL = Sludge
Requisitioned By		Date/Time		Received By		Date/Time		W = Water
Requisitioned By		Date/Time		Received By		Date/Time		O = Oil
Requisitioned By		Date/Time		Received By		Date/Time		A = Air
Requisitioned By		Date/Time		Received By		Date/Time		DS = Dyeon Solids
Requisitioned By		Date/Time		Received By		Date/Time		DL = Dyeon Liquids
Requisitioned By		Date/Time		Received By		Date/Time		T = Tissue
Requisitioned By		Date/Time		Received By		Date/Time		WI = Wipe
Requisitioned By		Date/Time		Received By		Date/Time		L = Liquid
Requisitioned By		Date/Time		Received By		Date/Time		V = Vegetation
Requisitioned By		Date/Time		Received By		Date/Time		X = Other

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

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Sample Receipt

Chain of Custody

CH2M Hill Plateau Remediation Company  
**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**  
 C.O.C. # **S13-012-267**  
 Page 1 of 1

Collector	Robert Crow	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, DECEMBER 2012	Logbook No.	INF-N-506 <u>49/81</u>	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	SURV	Priority:	31 Days	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
 \*\*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS**  
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 40167.

Total Activity Exemption: Yes  No

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2M7C8	N	11-20-12	1357	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	24 Hours	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Robert Crow			NOV 20 2012 1500	TA Frazin			NOV 20 2012 1500	S = Soil SF = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By				Received By				DS = Dism Solids DL = Dism Liquids T = Tissue WT = Waste 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		

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A-6004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S13-012-208

Page 1 of 1

Collector	Robert Crow	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	SURV, DECEMBER 2012	Logbook No.	HNF-N-50649 / 80	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	SURV	Priority:	31 Days	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
 \*\* \*\* Contains Radioactive Material at concentrations that are not regulated for transportation, per 49 CFR but are not releasable per DCF Order 5400 5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time: Total Activity Exemption: Yes  No   
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACW for all analytical work at WSCF is 401647.

Sample No.	Filter	Date	Time	Net Type Container	Sample Analysis	Holding Time	Preservative
B2MY19	N	11-20-12	0833	1x500-mL BG	7196_Cr6: Hexavalent Chromium (1)	24 Hours	Cool-4C

Relinquished By	Robert Crow	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	Robert Crow			NOV 20 2012 1500	TA Frazier			NOV 20 2012 1500	S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge W1 = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By				Date/Time	Received By			Date/Time	
Relinquished By				Date/Time	Received By			Date/Time	

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

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Chain of Custody

CH2MHill Plateau Remediation Company  
**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**  
 C.O.C. # **S13-012-211**  
 Page 1 of 1

Collector	Robert Crow	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	SURV. DECEMBER 2012	Logbook No.	INF-N-506 49 / 80	Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protected	SURV	Priority:	31 Days	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
 \*\* Certain Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS**  
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CAIN for all analytical work at WSCF is 401647.

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2M/25	N	11-20-12	0924	1x500-mL AG	7196_CH6_ Hexavalent Chromium (1)	24 Hours	Cool-4C

Relinquished By	Robert Crow	Initial	Sign	Date/Time	Received By	Initial	Sign	Date/Time	Matrix *
Relinquished By	Robert Crow	RC	NOV 20 2012	1500	TA Frazar	Nov 20 2012	1500		S = Soil SI = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Leland V = Vegetation X = Other
Relinquished By					Received By				
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 O 10/24/2012 A-6004-942 (REV 2)

Chain of Custody

<b>CH2MHill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				C.O.C. # <b>S13-012-214</b>	
Collector: <u>Robert Crow</u>		Contact/Requester: <u>Karen Waters-Husted</u>	Telephone No.: <u>376-4650</u>	Page 1 of 1			
SAF No.: <u>S13-012</u>	Project Title: <u>SURV, DECEMBER 2012</u>	Sampling Origin: <u>Hanford Site</u>	Purchase Order/Charge Code: <u>300071ESS20</u>				
Shipped To (Lab): <u>Waste Sampling &amp; Characterization</u>	Logbook No.: <u>HNF-N-506 41/80</u>	Method of Shipment: <u>GOVERNMENT VEHICLE</u>	Ice Chest No.: <u>N/A</u>	Bill of Lading/Air Bill No.: <u>N/A</u>	Onsite Property No.: <u>N/A</u>		
Protected: <u>SURV</u>	Priority: <u>31 Days</u>	<b>PRIORITY</b>	SPECIAL INSTRUCTIONS: <u>Hold Time FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACV for all analytical work at WSCF is 401647.</u>		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)							
Sample No.: <u>B2MW29</u>	Filter: <u>5</u>	Date: <u>11-20-12</u>	Time: <u>1059</u>	No./Type Container: <u>1x500-ml AG</u>	Received By: <u>7196 CR6: Hexavalent Chromium (1)</u>	Sample Analysis	Preservative: <u>Cool-4C</u>
						Holding Time: <u>24 Hours</u>	

Relinquished By: <u>Robert Crow</u>	Print Sign	Date/Time: <u>NOV 20 2012 1500</u>	Received By: <u>Theresa Lee</u>	Print Sign	Date/Time: <u>NOV 20 2012 1500</u>	Matrix *
Relinquished By:		Date/Time:	Received By:		Date/Time:	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By:		Date/Time:	Received By:		Date/Time:	DS = Drum Solids DL = Drum Linings T = Tissue W1 = Wipe L = Liquid V = Vegetation X = Other
Relinquished By:		Date/Time:	Received By:		Date/Time:	
<b>FINAL SAMPLE DISPOSITION</b>		Dispose Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By:		Date/Time:

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A-6004-942 (REV 2)



Sample Receipt

Chain of Custody

<b>CH2MHill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				C.O.C. # <b>S13-012-275</b>	
Collector: <b>Robert Crow</b>		Contact/Requester: <b>Karen Waters-Husted</b>	Telephone No. <b>376-4650</b>		Page 1 of 1		
SAF No. <b>S13-012</b>	Project Title <b>SURV, DECEMBER 2012</b>	Sampling Origin <b>Hanford Site</b>	Logbook No. <b>HNF-N-506 49/81</b>	Purchase Order/Charge Code <b>300071ESS20</b>			
Shipped To (Lab) <b>Waste Sampling &amp; Characterization</b>		Method of Shipment <b>GOVERNMENT VEHICLE</b>	Ice Chest No. <b>N/A</b>	Bill of Lading/Air Bill No. <b>N/A</b>			
Protocol <b>SURV</b>	Priority: <b>31 Days</b>	<b>PRIORITY</b>	Offsite Property No. <b>N/A</b>				
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>				<b>SPECIAL INSTRUCTIONS</b>			
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)				FY12 and FY13 samples cannot be in the same SIG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.			
Sample No. <b>B2WYD9 7</b>	Filter <b>N</b>	Date <b>11-20-12</b>	Time <b>1324</b>	No/Type Container <b>14500-mL P</b>	Sample Analysis <b>3000 ANIONS, IC, List-1 (5)</b>	Holding Time <b>48 Hours</b>	Preservative <b>Cool-4C</b>

Relinquished By <b>Robert Crow</b>	Print <b>R Crow</b>	Sign	Date/Time <b>NOV 20 2012 1500</b>	Received By <b>TA Francis</b>	Print <b>TA Francis</b>	Sign	Date/Time <b>NOV 20 2012 1500</b>	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vapour X = Other		
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time			
FINAL SAMPLE DISPOSITION				Disposal Method (e.g. Return to customer, per lab procedure, used in process)		Disposed By		Date/Time

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A-6004-842 (REV 2)

Chain of Custody

<b>CH2M Hill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				C.O.C. # <b>S13-012-207</b>
Collector: <b>Robert Crow</b>		Contact/Requester: <b>Karen Waters-Husted</b>		Telephone No.: <b>376-4650</b>		Page 1 of 1
SAF No.: <b>S13-012</b>		Sampling Origin: <b>Hanford Site</b>		Purchase Order/Charge Code: <b>300071ESS20</b>		
Project Title: <b>SURV, DECEMBER 2012</b>		Logbook No.: <b>HNF-N-506 49/80</b>		Ice Chest No.: <b>N/A</b>		
Shipped To (Lab): <b>Waste Sampling &amp; Characterization</b>		Method of Shipment: <b>GOVERNMENT VEHICLE</b>		Bill of Lading/Air Bill No.: <b>N/A</b>		
Protocol: <b>SURV</b>		Priority: <b>31 Days</b>		Onsite Property No.: <b>N/A</b>		
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b> *** Certain Radioactive Material concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)						
<b>SPECIAL INSTRUCTIONS</b> FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.						
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
Sample No.: <b>B2MWT8 8</b>	Filter: <b>N</b>	Date: <b>11-20-12</b>	Time: <b>0833</b>	No./Type Container: <b>1x500-mL P</b>	Received By: <b>300.0 ANIONS, IC, List-1 (9)</b>	Sample Analysis:
				Holding Time: <b>48 Hours</b>	Preservative: <b>Cool-4C</b>	
Relinquished By: <b>Robert Crow</b>		Sign: <i>[Signature]</i>		Date/Time: <b>NOV 20 2012 1500</b>		Received By: <b>JA Frazier</b>
Relinquished By:		Sign:		Date/Time:		Received By:
Relinquished By:		Sign:		Date/Time:		Received By:
Relinquished By:		Sign:		Date/Time:		Received By:
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process):						
Disposed By:						
Date/Time:						

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A-6004-842 (REV 2)



Chain of Custody

C112M Hill Plateau Remediation Company  
**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**  
 C.O.C. # **S13-012-213**  
 Page 1 of 1

Collector	Robert Crow	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, DECEMBER 2012	Logbook No.	INF-N-50649 / 80	Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Produced	SURV	Priority:	31 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)			SPECIAL INSTRUCTIONS FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647		
Sample No.	B2WV28	Filter	N	Date	11-20-12
		Time			1059
		No./Type Container	14500-mL P	Sample Analysis	300 0 ANIONS_IC: List-1 (5)
		Holding Time	48 Hours	Preservative	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Date/Time	Print	Sign	Date/Time	Matrix *
Relinquished By	Robert Crow	<i>R Crow</i>	NOV 20 2012 1500	Received By	11/20/12 1500	<i>Th...</i>		NOV 20 2012 1500	S = Soil SE = Sediment SD = Solid SL = Sludge W = Water O = 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)  
 PRINTED ON 10/24/2012  
 A-8004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation  
 Company  
**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**  
 C.O.C. # **S13-012-222**  
 Page 1 of 1

Collector	Robert Crow	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	SURV. DECEMBER 2012	Logbook No.	INF-N-506 49 / 80	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	SURV	Priority:	31 Days	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
 \*\* \*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time Total Activity Exemption: Yes  No   
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2MW42	11	N	W	1x500-mL P	300.0 ANIONS, IC: List-1 (5)	48 Hours	Cool-4C

Relinquished By	Print Robert Crow	Signature <i>Robert Crow</i>	Date/Time NOV 20 2012 1500	Received By	Print TA Frazier	Signature <i>TA Frazier</i>	Date/Time NOV 20 2012 1500
Relinquished By				Received By			
Relinquished By				Received By			
Relinquished By				Received By			

Matrix \*  
 S = Soil DS = Drum Solids  
 SE = Sediment DL = Drum Liquids  
 SO = Solid T = Tissue  
 SL = Sludge WJ = Waste  
 W = Water L = Liquid  
 O = Oil V = Vegetation  
 A = Air X = Other

FINAL SAMPLE DISPOSITION Disposed Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time  
 PRINTED O 10/24/2012 A-8004-942 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company  
**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**  
 C.O.C. # S13-012-503  
 Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Walters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	SURV, DECEMBER 2012	Logbook No.	HNF-N-506 51/53	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	SURV	Priority:	31 Days	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
 \*\*\* Contains Radioactive Material, at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)  
**SPECIAL INSTRUCTIONS** Hold Time Total Activity Exemption: Yes  No   
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACM for all analytical work at WSCF is 101647.

Sample No.	Filter	+	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
BZNDV5	12	N	W	11/30/12	1035	1x500-mL P 3000_ANIONS_IC: Lst-1 + Brom_Phosp (7)	48 Hours	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	FM Hall		NOV 20 2012 1505	Received By	TA Frazier		NOV 20 2012 1505	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By				Received By				DS = Dross Solids DL = Dross Liquids T = Tissue WI = Wire L = Liquid V = Vegetation X = Other

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

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A-6004-942 (REV 2)

Chain of Custody

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S13-012-569  
Page 1 of 1

Collector	FM Hall CHPRC S13-012	Contact/Requester	Karen Waters-Husted Hanford Site	Telephone No.	376-4650
Project Title	SURY, DECEMBER 2012	Logbook No.	HNF-N-506 51/53	Purchase Order/Charge Code	300071ES20
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Ice Chest No.	N/A
Protocol	SURY	Priority:	31 Days	Bill of Lading/Air Bill No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
** ** Contain Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5100.5 (1990/1993)			Hold Time		
			FY12 and FY13 samples cannot be in the same SDG Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 40167.		
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis
B2N193	N	11/20/12	0830	1x500-ML P	300.0_ANIONS_IC: List-1 (5)
					48 Hours
					Preservative
					COOL-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	FM Hall CHPRC	<i>[Signature]</i>	NOV 20 2012 1505	Received By	7A Emilia Lewis	<i>[Signature]</i>	NOV 20 2012 1505	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Trass WT = Waste L = Liquid V = Vegetation X = Other
Relinquished By				Received By				
Relinquished By				Received By				
FINAL SAMPLE DISPOSITION	Disposed Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By		Date/Time		

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A-5004-842 (REV 2)

Sample Receipt

Chain of Custody

CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#  
S13-012-493  
Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Husted Hartford Site	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	HNF-N-506 51/54	Purchase Order/Charge Code	300071EES20
Project Title	SURV, DECEMBER 2012	Logbook No.	GOVERNMENT VEHICLE	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	SURV	Priority:	31 Days <b>PRIORITY</b>	Onsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS  
 \*\*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1960/1995)

SPECIAL INSTRUCTIONS  
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACM for all analytical work at WSCF is 401647.

Total Activity Exemption: Yes  No

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
BZMRS 14	N	11/30/12	1101	1x500 mL P	300.0_ANIONS_IC: List-1 + Biom_Phosp (7)	48 Hours	Cool-4C

  

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
FM Hall CHPRC		<i>[Signature]</i>	NOV 20 2012 1505	TA Pratis Karen Waters-Husted		<i>[Signature]</i>	NOV 20 2012 1505	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Dried Solids DL = Dried Liquids T = Tissue VI = Vial L = Liquid V = Vegetation X = Other
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process)

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Sample Receipt

Chain of Custody

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # <b>S13-012-491</b>	
FM Hall Collector CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 376-4650	Page 1 of 1			
SAF No. S13-012	Project Title SURV, DECEMBER 2012	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ESS20				
Shipped To (Lab) Waste Sampling & Characterization	Logbook No. HNF-N-506 51/53	Method of Shipment GOVERNMENT VEHICLE	Ice Chest No. N/A	Bill of Lading/Air Bill No. N/A	Onsite Property No. N/A		
Protocol SURV	Priority 31 Days	<b>PRIORITY</b>	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1995)			SPECIAL INSTRUCTIONS FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCFS 401647.				
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
BZNR01	15 N	11/30/12	0921	1x500-mL P	3000_ANIONS_IC: List-1 + Biorn_Phossp (7)	48 Hours	Cool-4C

Relinquished By CHPRC	Print 	Sign 	Date/Time NOV 20 2012 1505	Received By T.A. FRYZLISA	Print 	Sign 	Date/Time NOV 20 2012 1505
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
FINAL SAMPLE DISPOSITION				Disposal Method (e.g., Return to customer, per Lab procedure, used in process)			
PRINTED O 10/24/2012				A-6004-842 (REV 2)			

Matrix *	
S	Soil
SE	Sediment
SO	Solid
SL	Sludge
W	Water
O	Oil
A	Air
DS	Drum Solids
DL	Drum Liquids
T	Tissue
WI	Wipe
L	Leachate
V	Vegetation
X	Other

Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
S13-012-567  
Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Iustice	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071E520
Project Title	SURV, DECEMBER 2012	Logbook No.	HNF-N-306 51 54	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	SLRV	Priority:	31 Days	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS  
 \*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS  
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACH for all analytical work at WSCF is 401647.  
 Hold Time  
 Total Activity Exemption: Yes  No

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N189	N	11/20/12	1306	1x500-mL P	300.0_ANIONS_IC: List-1 + Brom_Phosp (7)	48 Hours	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	FM Hall	<i>[Signature]</i>	NOV 20 2012 1505	Received By	TAFARIZIM	<i>[Signature]</i>	NOV 20 2012 1505	S = Soil SB = Sediment SO = Solid SL = Sludge W = Water O = 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

Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
S13-012-565  
Page 1 of 1

Collector	FMHill CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	SURV, DECEMBER 2012	Logbook No.	HNF-N-506 51/54	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	SURV	Priority:	31 Days	Offsite Property No.	N/A

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
 \*\*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DCE Under 5410.5 (1990/1993)

**SPECIAL INSTRUCTIONS** Hold Time Total Activity Exemption: Yes  No   
 FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACM for all analytical work at WSCF is 401647.

Sample No.	Filter	Date	Time	Net/Type Container	Sample Analysis	Holding Time	Preservative	
B2N185	17	N	W	11/20/12 1135	1x500-mL P	300.0_ANIONS_IC: List-1 + Brom_Phosph (7)	48 Hours	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	FMHill	<i>[Signature]</i>	NOV 20 2012 1505	Received By	TA Trazier	<i>[Signature]</i>	NOV 20 2012 1505	S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WL = Wipe W = Water L = Liquid O = Oil V = Vapour A = Air X = Other
Relinquished By				Received By				
Relinquished By				Received By				
FINAL SAMPLE DISPOSITION				Disposed Method (e.g., Return to customer; per lab procedure, used in process)	Disposed By			

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Chain of Custody

CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
S13-012-573  
Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Husted Hanford Site	Telephone No.	376-4650
SAF No.	S13-012	Sampling Origin		Purchase Order/Charge Code	300071ESS20
Project Title	SURV, DECEMBER 2012	Logbook No.	HNF-N-306 51/54	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	SURV	Priority:	31 Days <b>PRIORITY</b>	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

\*\*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS

FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACM for all analytical work at WSCF is 401647.

Total Activity Exemption: Yes  No

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2N1B1	18	N	W 11/20/12	1x500-mL P	3000_0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

Relinquished By	Print FM Hall CHPRC	Sign	Date/Time	Received By	Print TAFARIZEN	Sign	Date/Time
Relinquished By			NOV 20 2012 1505	Received By			NOV 20 2012 1505
Relinquished By				Received By			
Relinquished By				Received By			

Matrix \*

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquids
SO = Solid	T = Tissue
SL = Sludge	WT = Wipe
W = Water	L = Leachate
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By

Disposal Date/Time

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A-6004-842 (REV 2)

Sample Receipt

Chain of Custody

CH2M/Hill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C.# S13-012-575	
Collector	FM Hall CHPRC	Contact/Requester	Karen Walters-Husted	Telephone No.	376-4650			Page 1 of 1	
SAF No.	S13-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20				
Project Title	SURV, DECEMBER 2012	Logbook No.	HNF-N-506 51 / 54	Ice Chest No.	N/A	Bill of Lading/Air Bill No.	N/A		
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Offsite Property No.	N/A				
Protocol	SURV	Priority:	31 Days	<b>PRIORITY</b>					
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>				<b>SPECIAL INSTRUCTIONS</b>		<b>Hold Time</b>		<b>Total Activity Exemption:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1995)				FY12 and FY13 samples cannot be in the same SDG. Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401547.					
Sample No.	B2N1B5	Filter	N	Date	11/20/12	Time	1414	No./Type Container	
								1x500-mL P	
								300.0_ANIONS_IC: Lst-1 (6)	
								Sample Analysis	
								48 Hours	
								Preservative	
								Cool-4C	

Relinquished By	Print FM Hall	Sign <i>[Signature]</i>	Date/Time NOV 20 2012 1505	Received By	Print JA Farnley	Sign <i>[Signature]</i>	Date/Time NOV 20 2012 1505	Matrix *
Relinquished By	CHPRC			Received By				S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By				Received By				DS = Drums Solids DL = Drums 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)				
PRINTED O 10/24/2012				A-5004-942 (REV 2)				