

May 21, 2014

REV. 1

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352



May 21, 2014

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

Dear Scot Fitzgerald,

REVISED140024 - 866039 [Report ID: 140024]

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 WSCF140024

- * 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 written over a horizontal line.

Electronically signed by Joseph Hale

For Lab Manager, Dan T. Smith

WSCF Analytical Lab

(509) 373-4804

Attachments 4

CC: w/Attachments

File/LB

REVISED140024 -

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF140024
Data Deliverable Date 02/07/14

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
I14-011	B2TKP4	140024001	WATER	01/07/14	01/07/14
I14-011	B2TKN8	140024002	WATER	01/07/14	01/07/14
I14-011	B2TKW7	140024003	WATER	01/07/14	01/07/14
I14-011	B2TKN7	140024004	WATER	01/07/14	01/07/14
I14-011	B2TKP3	140024005	WATER	01/07/14	01/07/14
I14-011	B2TKW2	140024006	WATER	01/07/14	01/07/14
I14-011	B2TKW6	140024007	WATER	01/07/14	01/07/14
W14-012	B2TLR2	140024008	WATER	01/07/14	01/07/14

ATTACHMENT 2

NARRATIVE

Consisting of 4 pages
Including cover page

Attachment 2
Narrative Rev1
WSCF140024

Revision 1: This case narrative replaces the prior in its entirety. Per the P&D, sulfate was added to sample B2TLR2.

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.

Attachment 2
Narrative Rev1
WSCF140024

Analytical Methodology for Requested Analyses

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

Inorganic Comments

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):

- Batch QC 226106
 - Nitrite – Matrix Spike and/or Matrix Spike Duplicate recoveries are outside established laboratory limits. Affected sample results in this batch were “N” flagged.
 - 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 2
Narrative Rev1
WSCF140024

Problem and Discrepancy Report

WSCF

SDG WSCF140024

03/18/14

1. The data package has the following issues:

- a. Sulfate is missing from the hard copy and electronic data packages for sample B2TLR2.

Resolution: *Provide appropriate correction*

Lab Response: **The sulfate has been added.**

Please correct the issues and resubmit the hard copy and electronic data package.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 17 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 # WSCF140024
Report Date May 21, 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.

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Batch QC List

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140024

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
226106	226106	2	BLANK	103588	BLANK		Anions by Ion Chromatography (Water)
226106	226106	3	LCS	103589	LCS		Anions by Ion Chromatography (Water)
226106	226106	4	MS	103590	B2TK21(140019002MS)	140019002	Anions by Ion Chromatography (Water)
226106	226106	5	MSD	103591	B2TK21(140019002MSD)	140019002	Anions by Ion Chromatography (Water)
226106	226106	15	SAMPLE	140024004	B2TKN7		Anions by Ion Chromatography (Water)
226106	226106	16	SAMPLE	140024005	B2TKP3		Anions by Ion Chromatography (Water)
226107	226107	2	BLANK	103593	BLANK		Anions by Ion Chromatography (Water)
226107	226107	3	LCS	103594	LCS		Anions by Ion Chromatography (Water)
226107	226107	4	MS	103595	B2TK24(140019003MS)	140019003	Anions by Ion Chromatography (Water)
226107	226107	5	MSD	103596	B2TK24(140019003MSD)	140019003	Anions by Ion Chromatography (Water)
226107	226107	7	SAMPLE	140024006	B2TKW2		Anions by Ion Chromatography (Water)
226107	226107	8	SAMPLE	140024007	B2TKW6		Anions by Ion Chromatography (Water)
226107	226107	9	SAMPLE	140024008	B2TLR2		Anions by Ion Chromatography (Water)
226113	226113	1	BLANK	103601	BLANK		Hexavalent chromium Discrete Analyzer
226113	226113	3	LCS	103603	LCS		Hexavalent chromium Discrete Analyzer
226113	226113	4	DUP	103604	B2TKW7(140024003DUP)	140024003	Hexavalent chromium Discrete Analyzer
226113	226113	5	MS	103605	B2TKW7(140024003MS)	140024003	Hexavalent chromium Discrete Analyzer
226113	226113	6	SAMPLE	140024003	B2TKW7		Hexavalent chromium Discrete Analyzer
226113	226113	12	SAMPLE	140024001	B2TKP4		Hexavalent chromium Discrete Analyzer
226113	226113	13	SAMPLE	140024002	B2TKN8		Hexavalent chromium Discrete Analyzer

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Method Reference

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF140024

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-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>

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024001
 SAF# 114-011
 Sample ID B2TKP4

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										01/07/14
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.00990		mg/L	1	0.0020	0.0050	01/07/14

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

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

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

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Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024002
 SAF# 114-011
 Sample ID B2TKN8

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										01/07/14
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.00570		mg/L	1	0.0020	0.0050	01/07/14

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

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

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

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Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024003
 SAF# 114-011
 Sample ID B2TKW7

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										01/07/14
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.00570		mg/L	1	0.0020	0.0050	01/07/14

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

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

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

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Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024004
 SAF# 114-011
 Sample ID B2TKN7

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
01/07/14										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	BD	0.374		ug/mL	2	0.050	1.0	01/07/14
Chloride	16887-00-6	LA-533-410	D	11.6		ug/mL	2	0.12	0.80	01/07/14
Nitrite-N	NO2-N	LA-533-410	UDN	<0.040		ug/mL	2	0.040	0.20	01/07/14
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.50	01/07/14
Nitrate-N	NO3-N	LA-533-410	D	14.9		ug/mL	2	0.040	0.20	01/07/14
Phosphate-P	PO4-P	LA-533-410	UD	<0.10		ug/mL	2	0.10	1.0	01/07/14
Sulfate	14808-79-8	LA-533-410	D	26.5		ug/mL	2	0.22	1.1	01/07/14

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

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

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

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Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024005
 SAF# 114-011
 Sample ID B2TKP3

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
01/07/14										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	BD	0.391		ug/mL	2	0.050	1.0	01/07/14
Chloride	16887-00-6	LA-533-410	D	53.9		ug/mL	2	0.12	0.80	01/07/14
Nitrite-N	NO2-N	LA-533-410	UDN	<0.040		ug/mL	2	0.040	0.20	01/07/14
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.50	01/07/14
Nitrate-N	NO3-N	LA-533-410	D	23.8		ug/mL	2	0.040	0.20	01/07/14
Phosphate-P	PO4-P	LA-533-410	UD	<0.10		ug/mL	2	0.10	1.0	01/07/14
Sulfate	14808-79-8	LA-533-410	D	58.9		ug/mL	2	0.22	1.1	01/07/14

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

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

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

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Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024006
 SAF# 114-011
 Sample ID B2TKW2

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
01/07/14										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	BD	0.299		ug/mL	2	0.050	1.0	01/07/14
Chloride	16887-00-6	LA-533-410	D	15.3		ug/mL	2	0.12	0.80	01/07/14
Nitrite-N	NO2-N	LA-533-410	UD	<0.040		ug/mL	2	0.040	0.20	01/07/14
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.50	01/07/14
Nitrate-N	NO3-N	LA-533-410	D	5.38		ug/mL	2	0.040	0.20	01/07/14
Phosphate-P	PO4-P	LA-533-410	UD	<0.10		ug/mL	2	0.10	1.0	01/07/14
Sulfate	14808-79-8	LA-533-410	D	26.8		ug/mL	2	0.22	1.1	01/07/14

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

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

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

REVISED140024 -

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024007
 SAF# 114-011
 Sample ID B2TKW6

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
01/07/14										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	BD	0.359		ug/mL	2	0.050	1.0	01/07/14
Chloride	16887-00-6	LA-533-410	D	11.6		ug/mL	2	0.12	0.80	01/07/14
Nitrite-N	NO2-N	LA-533-410	UD	<0.040		ug/mL	2	0.040	0.20	01/07/14
Bromide	24959-67-9	LA-533-410	UD	<0.22		ug/mL	2	0.22	0.50	01/07/14
Nitrate-N	NO3-N	LA-533-410	D	14.9		ug/mL	2	0.040	0.20	01/07/14
Phosphate-P	PO4-P	LA-533-410	UD	<0.10		ug/mL	2	0.10	1.0	01/07/14
Sulfate	14808-79-8	LA-533-410	D	26.5		ug/mL	2	0.22	1.1	01/07/14

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

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

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

REVISED140024 -

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Sample # 140024008
 SAF# W14-012
 Sample ID B2TLR2

Matrix WATER
 Sampled 01/07/14
 Received 01/07/14

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
01/07/14										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	BD	0.366		ug/mL	2	0.050	1.0	01/07/14
Chloride	16887-00-6	LA-533-410	D	15.2		ug/mL	2	0.12	0.80	01/07/14
Nitrite-N	NO2-N	LA-533-410	UD	<0.040		ug/mL	2	0.040	0.20	01/07/14
Nitrate-N	NO3-N	LA-533-410	D	15.8		ug/mL	2	0.040	0.20	01/07/14
Sulfate	14808-79-8	LA-533-410	D	29.5		ug/mL	2	0.22	1.1	01/07/14

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

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

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

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Quality Control Report

May 21, 2014

REV. 1

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Analytical Batch 226106 (QC Batch: 226106) Test Anions by Ion Chromatography (Water)
 Associated Samples 140024004, 140024005

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #103588								
Fluoride	16984-48-8	<0.025		ug/mL					U	01/07/14
Chloride	16887-00-6	<0.060		ug/mL					U	01/07/14
Nitrite-N	NO2-N	<0.020		ug/mL					U	01/07/14
Bromide	24959-67-9	<0.11		ug/mL					U	01/07/14
Nitrate-N	NO3-N	<0.020		ug/mL					U	01/07/14
Phosphate-P	PO4-P	<0.050		ug/mL					U	01/07/14
Sulfate	14808-79-8	<0.11		ug/mL					U	01/07/14
LCS		QC Sample #103589								
Fluoride	16984-48-8	0.981		ug/mL	99	90 - 110				01/07/14
Chloride	16887-00-6	1.83		ug/mL	92.3	90 - 110				01/07/14
Nitrite-N	NO2-N	1.04		ug/mL	106.3	90 - 110				01/07/14
Bromide	24959-67-9	4.00		ug/mL	102.1	90 - 110				01/07/14
Nitrate-N	NO3-N	0.889		ug/mL	100.4	90 - 110				01/07/14
Phosphate-P	PO4-P	1.89		ug/mL	99	90 - 110				01/07/14
Sulfate	14808-79-8	3.96		ug/mL	101	90 - 110				01/07/14
MS		QC Sample #103590								
		Original 140019002								

* - QC result out of range

n/a - Not Applicable

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Quality Control Report

May 21, 2014

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Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Analytical Batch 226107 (QC Batch: 226107) Test Anions by Ion Chromatography (Water)
 Associated Samples 140024006, 140024007, 140024008

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK		QC Sample #103593								
Fluoride	16984-48-8	<0.025		ug/mL					U	01/07/14
Chloride	16887-00-6	<0.060		ug/mL					U	01/07/14
Nitrite-N	NO2-N	<0.020		ug/mL					U	01/07/14
Bromide	24959-67-9	<0.11		ug/mL					U	01/07/14
Nitrate-N	NO3-N	<0.020		ug/mL					U	01/07/14
Phosphate-P	PO4-P	<0.050		ug/mL					U	01/07/14
Sulfate	14808-79-8	<0.11		ug/mL					U	01/07/14
LCS		QC Sample #103594								
Fluoride	16984-48-8	0.988		ug/mL	99.8	90 - 110				01/07/14
Chloride	16887-00-6	1.84		ug/mL	93	90 - 110				01/07/14
Nitrite-N	NO2-N	1.02		ug/mL	104	90 - 110				01/07/14
Bromide	24959-67-9	3.98		ug/mL	101.4	90 - 110				01/07/14
Nitrate-N	NO3-N	0.884		ug/mL	99.8	90 - 110				01/07/14
Phosphate-P	PO4-P	1.90		ug/mL	99.4	90 - 110				01/07/14
Sulfate	14808-79-8	4.02		ug/mL	102.4	90 - 110				01/07/14
MS		QC Sample #103595								
		Original 140019003								

* - QC result out of range

n/a - Not Applicable

REVISED140024 -

Quality Control Report

May 21, 2014

REV. 1

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Fluoride	16984-48-8		0.959	ug/mL	95.9	80 - 120			D	01/07/14
Chloride	16887-00-6		1.72	ug/mL	86.2	80 - 120			D	01/07/14
Nitrite-N	NO2-N		1.06	ug/mL	107.3	80 - 120			D	01/07/14
Bromide	24959-67-9		4.04	ug/mL	102	80 - 120			D	01/07/14
Nitrate-N	NO3-N		0.863	ug/mL	96.5	80 - 120			D	01/07/14
Phosphate-P	PO4-P		1.75	ug/mL	90.5	80 - 120			D	01/07/14
Sulfate	14808-79-8		3.61	ug/mL	91.1	80 - 120			D	01/07/14
MSD		QC Sample #103596								
		Original 140019003				Paired 103595				
Fluoride	16984-48-8		0.982	ug/mL	98.2	80 - 120	1.90	20	D	01/07/14
Chloride	16887-00-6		1.78	ug/mL	88.9	80 - 120	0.40	20	D	01/07/14
Nitrite-N	NO2-N		1.07	ug/mL	107.8	80 - 120	0.50	20	D	01/07/14
Bromide	24959-67-9		4.07	ug/mL	102.7	80 - 120	0.60	20	D	01/07/14
Nitrate-N	NO3-N		0.861	ug/mL	96.3	80 - 120	0.00	20	D	01/07/14
Phosphate-P	PO4-P		1.81	ug/mL	94	80 - 120	3.80	20	D	01/07/14
Sulfate	14808-79-8		3.96	ug/mL	100	80 - 120	0.80	20	D	01/07/14

* - QC result out of range

n/a - Not Applicable

REVISED140024 -

Quality Control Report

May 21, 2014

REV. 1

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF140024

Analytical Batch 226113 (QC Batch: 226113) Test Hexavalent chromium Discrete Analyzer
 Associated Samples 140024001, 140024002, 140024003

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
Hexavalent chromium	18540-29-9		<0.0020	mg/L					U	01/07/14
LCS										
Hexavalent chromium	18540-29-9		0.0517	mg/L	103.4	90 - 110				01/07/14
DUP										
Hexavalent chromium	18540-29-9	0.00570	0.00550	mg/L			3.60	20		01/07/14
MS										
Hexavalent chromium	18540-29-9	0.00570	0.0399	mg/L	99.8	85 - 115				01/07/14

* - QC result out of range

n/a - Not Applicable

REVISED140024 -

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 10 pages
Including cover page

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

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory

PO Box 650 S3-30
 Richland, WA 99352

ATTN: Scot Fitzgerald

Customer Code: CHPRC
CA CN: 401647
Work Order #: 140024
Customer Work ID: I14-011-054
Due Date: 02/07/2014

The following samples were received from you on 1/7/2014 3:15:00 PM. 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
140024001	B2TKP4	WATER	1/7/2014 11:56	1/7/2014 15:15
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		C r6		
Sample #	Sample ID	Matrix	Collected	Received
140024002	B2TKN8	WATER	1/7/2014 10:45	1/7/2014 15:15
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		C r6		
Sample #	Sample ID	Matrix	Collected	Received
140024003	B2TKW7	WATER	1/7/2014 10:45	1/7/2014 15:15
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		C r6		
Sample #	Sample ID	Matrix	Collected	Received
140024004	B2TKN7	WATER	1/7/2014 10:45	1/7/2014 15:15
Procedure		Compound List		
Anions by Ion Chromatography (Water)		F,Cl,NO2,Br,NO3,P04,SO4		
Sample #	Sample ID	Matrix	Collected	Received
140024005	B2TKP3	WATER	1/7/2014 11:56	1/7/2014 15:15
Procedure		Compound List		
Anions by Ion Chromatography (Water)		F,Cl,NO2,Br,NO3,P04,SO4		
Sample #	Sample ID	Matrix	Collected	Received
140024006	B2TKW2	WATER	1/7/2014 14:50	1/7/2014 15:15
Procedure		Compound List		
Anions by Ion Chromatography (Water)		F,Cl,NO2,Br,NO3,P04,SO4		
Sample #	Sample ID	Matrix	Collected	Received
140024007	B2TKW6	WATER	1/7/2014 10:45	1/7/2014 15:15
Procedure		Compound List		
Anions by Ion Chromatography (Water)		F,Cl,NO2,Br,NO3,P04,SO4		
Sample #	Sample ID	Matrix	Collected	Received
140024008	B2TLR2 (W14-012)	WATER	1/7/2014 08:20	1/7/2014 15:15
Procedure		Compound List		
Anions by Ion Chromatography (Water)		F,Cl,NO2,Br,NO3,P04,SO4		

REVISED140024 -

Chain of Custody

CH2M Hill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # 114-011-054	
								Page 1 of 1	
Collector	F. M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650	Purchase Order/Charge Code	30007IES20		
SAF No.	114-011	Sampling Origin	Hanford Site	Ice Chest No.	N/A	Bill of Lading/Air Bill No.	N/A		
Project Title	22P1, DECEMBER 2013	Logbook No.	HNF-N-306 53/89	Office Property No.	N/A	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Priority	31 Days	Hold Time			
Protocol	CERCLA	Priority	31 Days	SPECIAL INSTR/CTIONS	PRIORITY				
<p>POSSIBLE SAMPLE HAZARDS/REMARKS *** Contains Radioactive Material at concentrations that are not regulated for transportation per 46 CFR but are not releasable per DOE Order 5400.5 (1990/1993) ***</p> <p style="text-align: center;">14DD24</p> <p>201 Area Generator Knowledge Information Form applies. The CACN for analytical work is W3CT is 401642. FT13 and FT14 samples cannot be in the same SDS.</p>									
Sample No	1	Filter	N	Date	1/7/14	Time	1156	Na/Type Container	1x500-mL JG
BZTKP4	1	N	W	1/7/14	1156			7198_CRF6_COMMON	7198_CRF6_COMMON
								Sample Analysis	
								Holding Time	24 Hours
								Preservative	Cool-4C

Reinquished By	F. M. Hall	Print		Sign		Date/Time	JAN 07 2014 1515	Received By	VICTOR BRINS	Print		Sign		Date/Time	JAN 07 2014 1515
Reinquished By		Date/Time		Received By		Date/Time		Received By		Date/Time		Received By		Date/Time	
Reinquished By		Date/Time		Received By		Date/Time		Received By		Date/Time		Received By		Date/Time	
Reinquished By		Date/Time		Received By		Date/Time		Received By		Date/Time		Received By		Date/Time	
Reinquished By		Date/Time		Received 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															

MATRIX *

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

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A-6034-842 (REV 2)

Chain of Custody

CH2M Hill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # 114-011-050	
								Page 1 of 1	
Collector	F.M. Hill			Contact/Requester	Karen Waters-Husted			Telephone No.	509-376-4650
SAF No.	114-011			Sampling Origin	Hanford Site			Purchase Order/Charge Code	300071ESS20
Project Title	22P1, DECEMBER 2013			Logbook No.	HNF-N-50653/89			Ice Check No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization			Method of Shipment	GOVERNMENT VEHICLE			Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA			Priority:	31 Days			Offline 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 200 Area Generator Knowledge Information Form applies. The CADN for analytical work at WSCF is 401647. F Y 13 and F Y 14 samples cannot be in the same SDU.									
Sample No	Filter	*	Date	Time	No./Type Container	Received By	Sample Analysis	Holding Time	Preservative
BZTKN6	2	N	1/7/14	1045	1x500-mL EG	719G_CRG: COMMON		24 Hours	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	MATERIAL *	
F.M. Hill			JAN 07 2014 1515	Vicente			JAN 07 2014 1515	S = Soil	DS = Drum Solids
Relinquished By				Received By				SE = Sediment	DL = Drum Liquids
Relinquished By				Received By				SO = Solid	T = Tissue
Relinquished By				Received By				SL = Sludge	W1 = Wipe
Relinquished By				Received By				W = Water	L = Liquid
Relinquished By				Received By				O = Oil	V = Vegetation
Relinquished By				Received By				A = Air	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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A-6004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C.# 114-011-046	
								Page 1 of 1	
Collector	F. M. Hill			Contact/Requester	Karen Waters-Husted			Telephone No.	509-376-4650
SAF No.	114-011			Sampling Origin	Hanford Site			Purchase Order/Charge Code	300071ES20
Project Title	22P1, DECEMBER 2013			Logbook No.	HNF-N-306 53/89			Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization			Method of Shipment	GOVERNMENT VEHICLE			Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA			Priority:	31 Days			Office Property No.	N/A
POSSIBLE SAMPLE HAZARDOUS 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)									
700 Area Generator Knowledge Information Form applies The CACN for analytical work at WSCF is 401642. F113 and F114 samples cannot be in the same SDS.									
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis		Holding Time	Preservative
BZTKW7	3	N	1/7/14	1045	1x200-mL BG	7195_CRG6_COMMON		24 Hours	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix +
F. M. Hill			JAN 07 2014 1515	VI		JAN 07 2014 1515		S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Dross Solids DL = Drums Liquids T = Tissue WT = Waste 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	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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A-6004-842 (REV 2)

Chain of Custody

CH2M Hill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # 114-011-048	
								Page 1 of 1	
Collector	F.M. Hall			Contact/Requester	Karen Waters-Husted			Telephone No.	509-376-4550
SAF No.	114-011			Sampling Origin	Hanford Site			Purchase Order/Charge Code	300071ESS20
Project Title	ZZP1, DECEMBER 2013			Logbook No.	HNF-N-506 <u>53/89</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	GERCLA			Priority:	31 Days			Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS				SPECIAL INSTRUCTIONS				Hold Time	
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DCE Order 34003 (1990/1993)				200 Area Generator Knowledge Information Form applies. This CACN for analytical work at WSCC is 401647. FY13 and FY14 samples cannot be in the same SDG.				Total Activity Exemption:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis		Folding Time	Preservative
BZTN7	4	N	W	1/7/14	1D45	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 02		48 HOURS	COOL-4C

Relinquished By	Signature	Date/Time	Received By	Signature	Date/Time	Matrix *
F.M. Hall		JAN 07 2014 1515	VILVA SINGH		JAN 07 2014 1515	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drums Solids DL = Drum Liquids T = Tissue WT = Waste V = Vegetation X = Other
Relinquished By	Date/Time	Received By	Date/Time	Relinquished 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

CH2MHill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # 114-011-053	
								Page 1 of 1	
Collector	F. M. Hill	Contact/Requester	Karen Walters-Husted	Telephone No.	509-376-4650				
SAF No.	114-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	3C0071ES20				
Project Title	ZZP1, DECEMBER 2013	Logbook No.	HNF-N-506 <u>53/89</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	CERCLA	Priorities	31 Days	Offsite Property No.	N/A				
POSSIBLE SAMPLE HAZARDS/REMARKS				SPECIAL INSTRUCTIONS		Hold Time		Total Activity Exemption: 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 4600 2 (1990/1993)				200 Area Generator Knowledge Information Form applies. The CACN for analytical work at WSCF is 40.047. FY13 and FY14 samples cannot be in the same SDC.					
Sample No.	Filter	Date	Time	Nc/Type Container	Sample Analysis	Holding Time	Preservative		
BZTRP3	5	N	W	1/7/14	1156	1X500-mL P	300.0 ANIONS IC: COMMON; 300.0 ANIONS IC: GW 02	48 HOURS	COOL-4C

Relinquished By	F. M. Hill	Print	Signature	Date/Time	Received By	Print	Signature	Date/Time	Matrix #
Relinquished By	<i>[Signature]</i>			JAN 07 2014 1515	VIC TOR	<i>[Signature]</i>		JAN 07 2014 1515	SE = Soil SO = Sediment SL = Sludge W = Water O = Oil A = Air
Relinquished By									DS = Duan Solids TL = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By									
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedures, used in process)		Disposed By		Date/Time			

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A-5004-042 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # 114-011-085
Page 1 of 1

Collector	F.M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAT No.	114-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	2ZP1, DECEMBER 2013	Logbook No.	HNF-N-506 5390	Ice Check No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	31 Days	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 20L Area Generator Knowledge Information Form applies. The CACN for analytical work at WSCF is 401647. FY13 and FY14 samples cannot be in the same SDX.		
Sample No. BZ-KVZ 6 N W Date 1/7/14 Time 1450 No/Type Container 1X500-ML P Sample Analysis 300.0 ANIONS IC: COMMON; 300.0 ANIONS IC: GW 02 Holding Time 48 Hours Preservative Cool-4C			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Chain of Custody

Relinquished By	F.M. Hall	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>[Signature]</i>			JAN 07 2014 1515	V.C.H.	<i>[Signature]</i>		JAN 07 2014 1515	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 = Vegetation X = Other
Relinquished By					Received By				
Relinquished By					Received By				
Final Sample Disposition	Disposal Method (e.g., Return to customer, per his procedure, used in process)								Disposed By Date/Time

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A6004-842 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
114-011-044
Page 1 of 1

Collector	F. M. Hill	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	114-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ESS20
Project Title	22P1, DECEMBER 2013	Logbook No.	HNF-N-506 53/89	Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	31 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** 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)			200 Area Generator Knowledge Information from implies: The CACH for analytical work at WSCF is 401647 FT13 and FT14 samples cannot be in the same SDG.		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Hold Time		

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B2TKW6	N	W	1/7/14	1045	1x500-mL P	300.0_ANICNS_IC: COMMON 300.0_ANICNS_IC: GW 02	48 Hours	Cool-4C

Chain of Custody

Relinquished By	F. M. Hill	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>[Signature]</i>			JAN 07 2014 1515	<i>[Signature]</i>			JAN 07 2014 1515	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 WT = 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				

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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.#
W14-012-083
Page 1 of 1

Collector	F.M. Hill	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W14-012	Sampling Origin	Hanford Site	Purchase Order/Charge Code	30007IES20
Project Title	RCRA, DECEMBER 2013	Logbook No.	HNF-N-506 53/89	Ice Chest No.	N/A
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Product	RCRA	Priority:	31 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS *** Contain Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/993)		SPECIAL INSTRUCTIONS Site Waste Generator Knowledge Information Form applies. The CMCN for analytical work at WSCF is 401642. FV13 and FV14 samples cannot be in the same SD3.		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative	
BZTLR2	8	N	W 1/7/14	0820	1X500-mL P	3000_ANIONS_IC_COMMON	48 Hours	Cool-4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix*
F.M. Hill			JAN 07 2014 1515	V. C. ...			JAN 07 2014 1515	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 Liquids T = Tissue W1 = Wipe L = Liquid V = Vegetation 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

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A 6004 842 (REV 2)