

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 WSCF121505

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 WSCF121505

- * 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

Group # WSCF121505
Data Deliverable Date 12/28/12

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
S13-012	B2MYK2	121505001	WATER	11/27/12	11/27/12
S13-012	B2MY97	121505002	WATER	11/27/12	11/27/12
S13-012	B2MYH4	121505003	WATER	11/27/12	11/27/12
S13-012	B2MYJ1	121505004	WATER	11/27/12	11/27/12
S13-012	B2MY98	121505005	WATER	11/27/12	11/27/12
S13-011	B2N2V6	121505006	WATER	11/27/12	11/27/12

ATTACHMENT 2

NARRATIVE

Consisting of 5 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.

- Sample Issue Resolution Form SDR13-043 regarding COC issue is attached to this report.
- Sample Issue Resolution Form SDR13-042 regarding Hexavalent Chromium missed hold time for sample B2MY97 is attached to this report.

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

Attachment 2
Narrative
WSCF121505

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

Inorganic Comments

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):

- Sample B2MY97 (121505002) exceeded the hold time, please see attached SDR.
- All other 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.

SAMPLE ISSUE RESOLUTION**SIR NUM** SDR13-042
REV NUM 0
DATE INITIATED 11/28/2012**SAMPLE EVENT INFORMATION****SAF NUM(S)** S13-012
OPERABLE UNIT(S) NONE
PROJECT(S) SURV13
SAMPLE EVENT TITLE(S) SURV13
LABORATORY Waste Sampling & Characterization**SAMPLING INFORMATION****NUMBER OF SAMPLES** 1
SAMPLE NUMBERS B2MY97
SAMPLE MATRIX WATER
COLLECTION DATE -
SDG NUM**ISSUE BACKGROUND****CLASS** Laboratory Issue
TYPE Analysis Holding Time Exceeded
DESCRIPTION Sample B2MY97 was collected 11/27/12 at 7:15am and delivered to WSCF at 3:10pm. It was placed in a batch for hexavalent chromium analysis on 11/27/12 at the end of the business day. However, due to corrections that needed to be made to the QC, the reanalysis was performed the morning of 11/28/12 after the 24 hour regulatory hold time.**DISPOSITION****DESCRIPTION** PROPOSED DISPOSITION: Report the reanalysis data and note the missed hexavalent chromium hold time in the narrative.**JUSTIFICATION** ACCEPTED DISPOSITION:SUBMITTED BY: Marisol Avila DATE: 11/28/12
ACCEPTED BY: Karen Waters-Husted DATE: 11/28/12

Attachment 2
Narrative
WSCF121505

SAMPLE ISSUE RESOLUTION

SIR NUM SDR13-043
REV NUM 0
DATE INITIATED 11/28/2012

SAMPLE EVENT INFORMATION

SAF NUM(S) S13-012
OPERABLE UNIT(S) NONE
PROJECT(S) SURV13
SAMPLE EVENT TITLE(S) SURV13
LABORATORY Waste Sampling & Characterization

SAMPLING INFORMATION

NUMBER OF SAMPLES 1
SAMPLE NUMBERS B2MY98
SAMPLE MATRIX WATER
COLLECTION DATE -
SDG NUM

ISSUE BACKGROUND

CLASS Chain of Custody Issue (Field)
TYPE No/Illegible Sample Collector Listed on COC
DESCRIPTION Sample collector name is missing from both Collector and Relinquished By spaces.

DISPOSITION

DESCRIPTION PROPOSED DISPOSITION: Have collector fill in missing information, notate as late entry, initial and date.

JUSTIFICATION ACCEPTED DISPOSITION: Accept proposed resolution.

SUBMITTED BY: Joe Hale/WSCF DATE: 11/28/12

ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 11/28/12

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 12 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 # WSCF121505
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 # WSCF121505

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210921	210921	1	BLANK	85672	BLANK		Hexavalent chromium Discrete Analyzer
210921	210921	3	LCS	85674	LCS		Hexavalent chromium Discrete Analyzer
210921	210921	4	DUP	85675	B2MYK2(121505001DUP	121505001	Hexavalent chromium Discrete Analyzer
210921	210921	5	MS	85676	B2MYK2(121505001MS)	121505001	Hexavalent chromium Discrete Analyzer
210921	210921	6	SAMPLE	121505001	B2MYK2		Hexavalent chromium Discrete Analyzer
210921	210921	7	SAMPLE	121505002	B2MY97		Hexavalent chromium Discrete Analyzer
210921	210921	8	SAMPLE	121505003	B2MYH4		Hexavalent chromium Discrete Analyzer
210921	210921	9	SAMPLE	121505004	B2MYJ1		Hexavalent chromium Discrete Analyzer
210921	210921	10	SAMPLE	121505005	B2MY98		Hexavalent chromium Discrete Analyzer
210921	210921	11	SAMPLE	121505006	B2N2V6		Hexavalent chromium Discrete Analyzer

Method Reference

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121505

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

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 # WSCF121505

Sample # 121505001
 SAF# S13-012
 Sample ID B2MYK2

Matrix WATER
 Sampled 11/27/12
 Received 11/27/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.0247		mg/L	1	0.0020	0.0050	11/28/12

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 # WSCF121505

Sample # 121505002
 SAF# S13-012
 Sample ID B2MY97

Matrix WATER
 Sampled 11/27/12
 Received 11/27/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403	U	<0.0020		mg/L	1	0.0020	0.0050	11/28/12

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 # WSCF121505

Sample # 121505003
 SAF# S13-012
 Sample ID B2MYH4

Matrix WATER
 Sampled 11/27/12
 Received 11/27/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.0183		mg/L	1	0.0020	0.0050	11/28/12

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 # WSCF121505

Sample # 121505004
 SAF# S13-012
 Sample ID B2MYJ1

Matrix WATER
 Sampled 11/27/12
 Received 11/27/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.0197		mg/L	1	0.0020	0.0050	11/28/12

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 # WSCF121505

Sample # 121505005
 SAF# S13-012
 Sample ID B2MY98

Matrix WATER
 Sampled 11/27/12
 Received 11/27/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403		0.0165		mg/L	1	0.0020	0.0050	11/28/12

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 # WSCF121505

Sample # 121505006
 SAF# S13-011
 Sample ID B2N2V6

Matrix WATER
 Sampled 11/27/12
 Received 11/27/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										11/28/12
Hexavalent chromium Discrete Analyzer										
Hexavalent chromium	18540-29-9	LA-265-403	D	1.77		mg/L	10	0.020	0.050	11/28/12

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 # WSCF121505

Analytical Batch 210921 (QC Batch: 210921) Test Hexavalent chromium Discrete Analyzer
 Associated Samples 121505001, 121505002, 121505003, 121505004, 121505005, 121505006

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
			QC Sample #85672							
Hexavalent chromium	18540-29-9		<0.0020	mg/L					U	11/28/12
LCS			QC Sample #85674							
Hexavalent chromium	18540-29-9		0.0504	mg/L	100.8	90 - 110				11/28/12
DUP			QC Sample #85675							
			Original 121505001							
Hexavalent chromium	18540-29-9	0.0247	0.0242	mg/L			2.00	20		11/28/12
MS			QC Sample #85676							
			Original 121505001							
Hexavalent chromium	18540-29-9	0.0247	0.0406	mg/L	101.5	85 - 115				11/28/12

* - QC result out of range

n/a - Not Applicable

Attention: Scot Fitzgerald

Group #

WSCF121505

121505002

B2MY97

Cr(VI): Sample analyzed after 24hr hold time had expired.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 8 pages
Including cover page

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

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory

PO Box 650 S3-30
 Richland, WA 99352

ATTN: Scot Fitzgerald

Customer Code: CHPRC
 CACN: 401647
 Work Order #: 121505
 Customer Work ID: S13-012-296
 Due Date: 12/28/2012

The following samples were received from you on 11/27/2012 3:10:00 PM. They have been scheduled for the tests listed below 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
121505001	B2MYK2	WATER	11/27/2012 14:02	11/27/2012 15:10
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		Cr6		
Sample #	Sample ID	Matrix	Collected	Received
121505002	B2MY97	WATER	11/27/2012 07:15	11/27/2012 15:10
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		Cr6		
Sample #	Sample ID	Matrix	Collected	Received
121505003	B2MYH4	WATER	11/27/2012 10:23	11/27/2012 15:10
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		Cr6		
Sample #	Sample ID	Matrix	Collected	Received
121505004	B2MYJ1	WATER	11/27/2012 12:16	11/27/2012 15:10
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		Cr6		
Sample #	Sample ID	Matrix	Collected	Received
121505005	B2MY98	WATER	11/27/2012 09:22	11/27/2012 15:10
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		Cr6		
Sample #	Sample ID	Matrix	Collected	Received
121505006	B2N2V6 (S13-011)	WATER	11/27/2012 11:31	11/27/2012 15:10
Procedure		Compound List		
Hexavalent chromium Discrete Analyzer		Cr6		

Chain of Custody

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # S13-012-296 Page 1 of 1
Collector Robert Crow	Contract/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 / 84	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 (1990/1991)				
SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 401617.				
Sample No. B2MYK2	Filler N	Date 11-27-12	No./Type Container 1x500-mL aG	Sample Analysis 7196_CR6: Hexavalent Chromium (1)
			Holding Time 24 Hours	Preservative Cool-AC

Relinquished By Robert Crow	Sign R Crow	Date/Time NOV 27 2012 1570	Received By M. Anderson	Sign M. Anderson	Date/Time NOV 27 2012 1511	Matrix * S - Soil DS - Drum Solids SE - Sediment DL - Drum Liquids SO - Solid T - Tissue SL - Sludge WI - Wipe W - Water L - Liquid O - Oil V - Vegetation A - Air X - Other
Relinquished By	Sign	Date/Time	Received By	Sign	Date/Time	
Relinquished By	Sign	Date/Time	Received By	Sign	Date/Time	
Relinquished By	Sign	Date/Time	Received By	Sign	Date/Time	
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By
PRINTED ON 10/24/2011						A-6004-842 (REV 2)

Chain of Custody

CH2MHHI Plateau Remediation Company		C.O.C. # S13-012-284 Page 1 of 1	
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
Collector: Robert Crow SAF No.: S13-012 Project Title: SURV, DECEMBER 2012 Shipped To (Lab): Waste Sampling & Characterization Protocol: SURV	Contact/Requester: Karen Waters-Husted Sampling Origin: Hanford Site Logbook No.: HNF-N-506 49184 Method of Shipment: GOVERNMENT VEHICLE Priority: 31 Days PRIORITY	Telephone No.: 376-4650 Purchase Order/Charge Code: 30007IES20 Ice Chest No.: N/A Bill of Lading/Air Bill No.: N/A Offsite Property No.: N/A	Hold Time: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
SPECIAL INSTRUCTIONS: Hold Time Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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.			
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 (1996/1993)	Sample No.: B2MYH4 3 Filter: N Date: 11-27-12 Time: 10:23 No./Type Container: 1x500-mL aG	Sample Analysis: 7196_CR6: Hexavalent Chromium (1) Holding Time: 24 Hours Preservative: Cool-4C	

Relinquished By: Robert Crow Relinquished By: Relinquished By: Relinquished By:	Print: R Crow Sign: <i>[Signature]</i> Date/Time: NOV 27 2012 1510 Date/Time: Date/Time: Date/Time:	Received By: [Signature] Received By: Received By: Received By:	Print: [Signature] Sign: <i>[Signature]</i> Date/Time: NOV 27 2012 1510 Date/Time: Date/Time: Date/Time:	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
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

CH2MHHI Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # S13-012-289
Collector: Robert Crow		Contact/Requester: Karen Waters-Husted		Telephone No.: 376-4650
SAF No.: S13-012		Sampling Origin: Hanford Site		Purchase Order/Charge Code: 30007IES20
Project Title: SURV, DECEMBER 2012		Logbook No.: HNF-N-506 4984		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 PRIORITY		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 (1996/1993)				
SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
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
B2MYJ1	4	N	W 11-27-12	1x500-mL aG
Sample Analysis			Holding Time	Preservative
7196_CR6: Hexavalent Chromium (1)			24 Hours	Cool-4C

Relinquished By Robert Crow	Print <i>RCrow</i>	Signature	Date/Time NOV 27 2012 1510	Received By <i>W. Husted</i>	Signature	Date/Time NOV 27 2012 1510
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:						

A-6004-942 (REV 2)

PRINTED ON 10/24/2012

Chain of Custody

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S13-011-323	
Collector Robert Crow		Contact/Requester Karen Waters-Husted		Telephone No. 376-4650	
SAF No. S13-011		Sampling Origin Hanford Site		Purchase Order/Charge Code 300071ES20	
Project Title SURV, NOVEMBER 2012		Logbook No. HNF-N-506 49 / 84		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		Hold Time	
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1991/1993)		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 B-101647.		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sample No. B2N2V6	Filter N	Date 11-27-12	Time 1131	No./Type Container 1x500-mL aG	Sample Analysis 7196_CR6: Hexavalent Chromium (1)
Holding Time 24 Hours			Preservative Cool-4C		

Relinquished By Robert Crow	Print R Crow	Signature [Signature]	Date/Time NOV 27 2012 1510	Received By KA Husted	Print KA Husted	Signature [Signature]	Date/Time NOV 27 2012 1610
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 ON 11/7/2012				A-6004-842 (REV 2)			